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**CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)**

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|                         |                                                                                   |                         |                                                       |
|-------------------------|-----------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------|
| <b>Work Order</b>       | : <b>GP2501197</b>                                                                |                         |                                                       |
| Client                  | : <b>Aquatera Utilities Inc.</b>                                                  | Laboratory              | : ALS Environmental - Grande Prairie                  |
| Contact                 | : Tamara Wuttunee-Cambell                                                         | Account Manager         | : Wanda Chapella                                      |
| Address                 | : Water Treatment Plant 11101 104 Avenue<br>Grande Prairie Alberta Canada T8V 8H6 | Address                 | : 9505 111 Street<br>Grande Prairie AB Canada T8V 5W1 |
| Telephone               | : 780 532 3996                                                                    | Telephone               | : 780-539-5196                                        |
| Project                 | : WT-GP                                                                           | Date Samples Received   | : 02-Jul-2025 12:00                                   |
| PO                      | : 34893                                                                           | Date Analysis Commenced | : 03-Jul-2025                                         |
| C-O-C number            | : ----                                                                            | Issue Date              | : 06-Aug-2025 12:01                                   |
| Sampler                 | : Mike Boyce                                                                      |                         |                                                       |
| Site                    | : Aquatera                                                                        |                         |                                                       |
| Quote number            | : GP2021AQUI1003                                                                  |                         |                                                       |
| No. of samples received | : 1                                                                               |                         |                                                       |
| No. of samples analysed | : 1                                                                               |                         |                                                       |

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Guideline Comparison

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

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## Signatories

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

| <i>Signatories</i> | <i>Position</i> | <i>Laboratory Department</i>                     |
|--------------------|-----------------|--------------------------------------------------|
| Alastair McGibbon  |                 | Inorganics, Edmonton, Alberta                    |
| Alex Drake         |                 | Inorganics, Edmonton, Alberta                    |
| Alex Drake         |                 | Metals, Edmonton, Alberta                        |
| Amaninder Dhillon  |                 | Organics, Waterloo, Ontario                      |
| Anthony Calero     |                 | Inorganics, Calgary, Alberta                     |
| Brayden Ginther    |                 | Inorganics, Edmonton, Alberta                    |
| Catherine DeMone   |                 | LCMS, Waterloo, Ontario                          |
| Daniel Nguyen      |                 | Metals, Edmonton, Alberta                        |
| Hannah Lewis       |                 | Inorganics, Waterloo, Ontario                    |
| Harpreet Chawla    |                 | Inorganics, Calgary, Alberta                     |
| Jing Liu           |                 | Inorganics, Edmonton, Alberta                    |
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| Parth Goswami      |                 | LCMS, Waterloo, Ontario                          |
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| Sanja Risticvic    |                 | LCMS, Waterloo, Ontario                          |
| Sorina Motea       |                 | Organics, Calgary, Alberta                       |
| Wanda Chapella     |                 | External Subcontracting, Saskatoon, Saskatchewan |
| William Lake       |                 | Microbiology, Winnipeg, Manitoba                 |



## No Breaches Found

### General Comments

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

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

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

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

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

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

| Unit     | Description                     |
|----------|---------------------------------|
| % T/cm   | % transmittance per centimetre  |
| AU/cm    | absorbance units per centimetre |
| Bq/L     | becquerels per litre            |
| CU       | colour units (1 cu = 1 mg/l pt) |
| mg/L     | milligrams per litre            |
| ng/L     | nanograms per litre             |
| NTU      | nephelometric turbidity units   |
| pH units | pH units                        |
| µg/L     | micrograms per litre            |
| µS/cm    | microsiemens per centimetre     |

>: greater than.

<: less than.

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

### Qualifiers

| Qualifier | Description                                                                                            |
|-----------|--------------------------------------------------------------------------------------------------------|
| DLM       | Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity). |



## Analytical Results Evaluation

**Matrix: Water**

| Matrix: Water |            |            |      | Client sample ID            | Treated Water Entering the Distribution System | ---- | ---- | ---- | ---- | ---- | ---- |
|---------------|------------|------------|------|-----------------------------|------------------------------------------------|------|------|------|------|------|------|
|               |            |            |      | Client sampling date / time | 02-Jul-2025 09:50                              | ---- | ---- | ---- | ---- | ---- | ---- |
|               |            |            |      | Sub-Matrix                  | Water                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Analyte       | CAS Number | Method/Lab | Unit | GP2501197-001               | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |
|               |            |            |      | Result                      | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |

### Physical Tests

|                                                    |      |           |          |        |      |      |      |      |      |      |
|----------------------------------------------------|------|-----------|----------|--------|------|------|------|------|------|------|
| <b>Absorbance, UV (@ 254nm)</b>                    | ---- | E404/EO   | AU/cm    | 0.0150 | ---- | ---- | ---- | ---- | ---- | ---- |
| Colour, true                                       | ---- | E329/CG   | CU       | <5.0   | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Conductivity</b>                                | ---- | E100/EO   | µS/cm    | 264    | ---- | ---- | ---- | ---- | ---- | ---- |
| Hardness (as CaCO <sub>3</sub> ), from total Ca/Mg | ---- | EC100A/EO | mg/L     | 129    | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>pH</b>                                          | ---- | E108/EO   | pH units | 7.58   | ---- | ---- | ---- | ---- | ---- | ---- |
| Solids, total dissolved [TDS]                      | ---- | E162/EO   | mg/L     | 132    | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Turbidity</b>                                   | ---- | E121/EO   | NTU      | <0.10  | ---- | ---- | ---- | ---- | ---- | ---- |
| Transmittance, UV (@ 254nm)                        | ---- | E404/EO   | % T/cm   | 96.6   | ---- | ---- | ---- | ---- | ---- | ---- |

### Anions and Nutrients

|                                    |            |                          |      |         |      |      |      |      |      |      |
|------------------------------------|------------|--------------------------|------|---------|------|------|------|------|------|------|
| <b>Ammonia, total (as N)</b>       | 7664-41-7  | E298/EO                  | mg/L | <0.0050 | ---- | ---- | ---- | ---- | ---- | ---- |
| Chloride                           | 16887-00-6 | E235.Cl/EO               | mg/L | 12.2    | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Fluoride</b>                    | 16984-48-8 | E235.F/EO                | mg/L | 0.677   | ---- | ---- | ---- | ---- | ---- | ---- |
| Nitrate (as N)                     | 14797-55-8 | E235.NO <sub>3</sub> /EO | mg/L | <0.020  | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Nitrate + Nitrite (as N)</b>    | ----       | EC235.N+N/E O            | mg/L | <0.0224 | ---- | ---- | ---- | ---- | ---- | ---- |
| Nitrite (as N)                     | 14797-65-0 | E235.NO <sub>2</sub> /EO | mg/L | <0.010  | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Sulfate (as SO<sub>4</sub>)</b> | 14808-79-8 | E235.SO <sub>4</sub> /EO | mg/L | 20.0    | ---- | ---- | ---- | ---- | ---- | ---- |

### Cyanides

|                                                 |      |         |      |         |      |      |      |      |      |      |
|-------------------------------------------------|------|---------|------|---------|------|------|------|------|------|------|
| <b>Cyanide, strong acid dissociable (Total)</b> | ---- | E333/WT | mg/L | <0.0050 | ---- | ---- | ---- | ---- | ---- | ---- |
|-------------------------------------------------|------|---------|------|---------|------|------|------|------|------|------|



**Matrix: Water**

| Client sample ID                   |            |              |      | Treated Water Entering the Distribution System | ---- | ---- | ---- | ---- | ---- | ---- |
|------------------------------------|------------|--------------|------|------------------------------------------------|------|------|------|------|------|------|
| Client sampling date / time        |            |              |      | 02-Jul-2025 09:50                              | ---- | ---- | ---- | ---- | ---- | ---- |
| Sub-Matrix                         |            |              |      | Water                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Analyte                            | CAS Number | Method/Lab   | Unit | GP2501197-001                                  | ---- | ---- | ---- | ---- | ---- | ---- |
|                                    |            |              |      | Result                                         | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Organic / Inorganic Carbon</b>  |            |              |      |                                                |      |      |      |      |      |      |
| <b>Carbon, total organic [TOC]</b> | ----       | E355-L/CG    | mg/L | 1.12                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Inorganics</b>                  |            |              |      |                                                |      |      |      |      |      |      |
| <b>Chlorine, total</b>             | 7782-50-5  | E326-H/EO    | mg/L | 1.47                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Chlorite                           | 14998-27-7 | E409.CLO2/WT | mg/L | <0.010                                         | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Chlorine, free</b>              | 7782-50-5  | E327-H/EO    | mg/L | 1.36                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Chloramines, total (as Cl2)        | ----       | EC326/EO     | mg/L | <0.20                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Total Sulfides</b>              |            |              |      |                                                |      |      |      |      |      |      |
| <b>Sulfide, total (as S)</b>       | 18496-25-8 | E395/CG      | mg/L | <0.0015                                        | ---- | ---- | ---- | ---- | ---- | ---- |
| Sulfide, total (as H2S)            | 7783-06-4  | E395/CG      | mg/L | <0.0016                                        | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Total Metals</b>                |            |              |      |                                                |      |      |      |      |      |      |
| <b>Aluminum, total</b>             | 7429-90-5  | E420/EO      | mg/L | 0.0887                                         | ---- | ---- | ---- | ---- | ---- | ---- |
| Antimony, total                    | 7440-36-0  | E420/EO      | mg/L | <0.00010                                       | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Arsenic, total</b>              | 7440-38-2  | E420/EO      | mg/L | 0.00012                                        | ---- | ---- | ---- | ---- | ---- | ---- |
| Barium, total                      | 7440-39-3  | E420/EO      | mg/L | 0.0832                                         | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Boron, total</b>                | 7440-42-8  | E420/EO      | mg/L | <0.010                                         | ---- | ---- | ---- | ---- | ---- | ---- |
| Cadmium, total                     | 7440-43-9  | E420/EO      | µg/L | <0.0050                                        | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Calcium, total</b>              | 7440-70-2  | E420/EO      | mg/L | 35.5                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Chromium, total                    | 7440-47-3  | E420/EO      | mg/L | <0.00050                                       | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Copper, total</b>               | 7440-50-8  | E420/EO      | mg/L | 0.00080                                        | ---- | ---- | ---- | ---- | ---- | ---- |
| Iron, total                        | 7439-89-6  | E420/EO      | mg/L | <0.010                                         | ---- | ---- | ---- | ---- | ---- | ---- |



**Matrix: Water**

|                                          |            |            |      |                  |                                                |     |     |     |     |     |     |
|------------------------------------------|------------|------------|------|------------------|------------------------------------------------|-----|-----|-----|-----|-----|-----|
| Matrix: Water                            |            |            |      | Client sample ID | Treated Water Entering the Distribution System | --- | --- | --- | --- | --- | --- |
| Client sampling date / time              |            |            |      |                  | 02-Jul-2025 09:50                              | --- | --- | --- | --- | --- | --- |
| Sub-Matrix                               |            |            |      |                  | Water                                          | --- | --- | --- | --- | --- | --- |
| Analyte                                  | CAS Number | Method/Lab | Unit | GP2501197-001    | ---                                            | --- | --- | --- | --- | --- | --- |
|                                          |            |            |      |                  | Result                                         | --- | --- | --- | --- | --- | --- |
| Total Metals                             |            |            |      |                  |                                                |     |     |     |     |     |     |
| Lead, total                              | 7439-92-1  | E420/EO    | µg/L | <0.050           | ---                                            | --- | --- | --- | --- | --- | --- |
| Magnesium, total                         | 7439-95-4  | E420/EO    | mg/L | 9.73             | ---                                            | --- | --- | --- | --- | --- | --- |
| Manganese, total                         | 7439-96-5  | E420/EO    | mg/L | 0.00018          | ---                                            | --- | --- | --- | --- | --- | --- |
| Mercury, total                           | 7439-97-6  | E508/EO    | µg/L | <0.0050          | ---                                            | --- | --- | --- | --- | --- | --- |
| Selenium, total                          | 7782-49-2  | E420/EO    | µg/L | 0.556            | ---                                            | --- | --- | --- | --- | --- | --- |
| Silver, total                            | 7440-22-4  | E420/EO    | µg/L | <0.010           | ---                                            | --- | --- | --- | --- | --- | --- |
| Sodium, total                            | 7440-23-5  | E420/EO    | mg/L | 2.24             | ---                                            | --- | --- | --- | --- | --- | --- |
| Strontium, total                         | 7440-24-6  | E420/EO    | mg/L | 0.130            | ---                                            | --- | --- | --- | --- | --- | --- |
| Uranium, total                           | 7440-61-1  | E420/EO    | µg/L | 0.032            | ---                                            | --- | --- | --- | --- | --- | --- |
| Zinc, total                              | 7440-66-6  | E420/EO    | mg/L | <0.0030          | ---                                            | --- | --- | --- | --- | --- | --- |
| Aggregate Organics                       |            |            |      |                  |                                                |     |     |     |     |     |     |
| Nitritotriacetic acid [NTA]              | 139-13-9   | E394/WT    | mg/L | <0.40            | ---                                            | --- | --- | --- | --- | --- | --- |
| Volatile Organic Compounds               |            |            |      |                  |                                                |     |     |     |     |     |     |
| Chlorobenzene                            | 108-90-7   | E611F/CG   | µg/L | <0.50            | ---                                            | --- | --- | --- | --- | --- | --- |
| Dichlorobenzene, 1,2-                    | 95-50-1    | E611F/CG   | µg/L | <0.50            | ---                                            | --- | --- | --- | --- | --- | --- |
| Dichlorobenzene, 1,4-                    | 106-46-7   | E611F/CG   | µg/L | <0.50            | ---                                            | --- | --- | --- | --- | --- | --- |
| Dioxane, 1,4-                            | 123-91-1   | E611I/CG   | µg/L | <20              | ---                                            | --- | --- | --- | --- | --- | --- |
| Volatile Organic Compounds [Drycleaning] |            |            |      |                  |                                                |     |     |     |     |     |     |
| Carbon tetrachloride                     | 56-23-5    | E611F/CG   | µg/L | <0.20            | ---                                            | --- | --- | --- | --- | --- | --- |
| Dichloroethane, 1,2-                     | 107-06-2   | E611F/CG   | µg/L | <0.50            | ---                                            | --- | --- | --- | --- | --- | --- |



**Matrix: Water**

| Client sample ID                                |             |            |      | Treated Water Entering the Distribution System | ---- | ---- | ---- | ---- | ---- | ---- |
|-------------------------------------------------|-------------|------------|------|------------------------------------------------|------|------|------|------|------|------|
| Client sampling date / time                     |             |            |      | 02-Jul-2025 09:50                              | ---- | ---- | ---- | ---- | ---- | ---- |
| Sub-Matrix                                      |             |            |      | Water                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Analyte                                         | CAS Number  | Method/Lab | Unit | GP2501197-001                                  | ---- | ---- | ---- | ---- | ---- | ---- |
|                                                 |             |            |      | Result                                         | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Volatile Organic Compounds [Drycleaning]</b> |             |            |      |                                                |      |      |      |      |      |      |
| <b>Dichloroethylene, 1,1-</b>                   | 75-35-4     | E611F/CG   | µg/L | <0.50                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Dichloromethane                                 | 75-09-2     | E611F/CG   | µg/L | <1.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Tetrachloroethylene</b>                      | 127-18-4    | E611F/CG   | µg/L | <0.50                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Trichloroethylene                               | 79-01-6     | E611F/CG   | µg/L | <0.50                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Vinyl chloride</b>                           | 75-01-4     | E611F/CG   | µg/L | <0.50                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Volatile Organic Compounds [Fuels]</b>       |             |            |      |                                                |      |      |      |      |      |      |
| <b>Benzene</b>                                  | 71-43-2     | E611F/CG   | µg/L | <0.50                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Ethylbenzene                                    | 100-41-4    | E611F/CG   | µg/L | <0.50                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Toluene</b>                                  | 108-88-3    | E611F/CG   | µg/L | <0.50                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Xylene, m+p-                                    | 179601-23-1 | E611F/CG   | µg/L | <0.40                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Xylene, o-</b>                               | 95-47-6     | E611F/CG   | µg/L | <0.30                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Xylenes, total                                  | 1330-20-7   | E611F/CG   | µg/L | <0.50                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Volatile Organic Compounds Surrogates</b>    |             |            |      |                                                |      |      |      |      |      |      |
| <b>Bromofluorobenzene, 4-</b>                   | 460-00-4    | E611I/CG   | %    | 77.7                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Bromofluorobenzene, 4-                          | 460-00-4    | E611F/CG   | %    | 77.7                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Difluorobenzene, 1,4-</b>                    | 540-36-3    | E611I/CG   | %    | 93.5                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Difluorobenzene, 1,4-                           | 540-36-3    | E611F/CG   | %    | 93.5                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Polycyclic Aromatic Hydrocarbons</b>         |             |            |      |                                                |      |      |      |      |      |      |
| <b>Benzo(a)pyrene</b>                           | 50-32-8     | E641A/CG   | µg/L | <0.0050                                        | ---- | ---- | ---- | ---- | ---- | ---- |



Matrix: Water

| Client sample ID                            |            |              |      | Treated Water Entering the Distribution System | ---- | ---- | ---- | ---- | ---- | ---- |
|---------------------------------------------|------------|--------------|------|------------------------------------------------|------|------|------|------|------|------|
| Client sampling date / time                 |            |              |      | 02-Jul-2025 09:50                              | ---- | ---- | ---- | ---- | ---- | ---- |
| Sub-Matrix                                  |            |              |      | Water                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Analyte                                     | CAS Number | Method/Lab   | Unit | GP2501197-001                                  | ---- | ---- | ---- | ---- | ---- | ---- |
|                                             |            |              |      | Result                                         | ---- | ---- | ---- | ---- | ---- | ---- |
| Polycyclic Aromatic Hydrocarbons Surrogates |            |              |      |                                                |      |      |      |      |      |      |
| Chrysene-d12                                | 1719-03-5  | E641A/CG     | %    | 112                                            | ---- | ---- | ---- | ---- | ---- | ---- |
| Naphthalene-d8                              | 1146-65-2  | E641A/CG     | %    | 114                                            | ---- | ---- | ---- | ---- | ---- | ---- |
| Phenanthrene-d10                            | 1517-22-2  | E641A/CG     | %    | 116                                            | ---- | ---- | ---- | ---- | ---- | ---- |
| Disinfectant By-Products                    |            |              |      |                                                |      |      |      |      |      |      |
| Bromate                                     | 15541-45-4 | E722A/WT     | mg/L | <0.00030                                       | ---- | ---- | ---- | ---- | ---- | ---- |
| Chlorate                                    | 14866-68-3 | E409.CLO3/WT | mg/L | <0.010                                         | ---- | ---- | ---- | ---- | ---- | ---- |
| Semi-Volatile Organics Surrogates           |            |              |      |                                                |      |      |      |      |      |      |
| Fluorobiphenyl, 2-                          | 321-60-8   | E625/WT      | %    | 87.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Nitrobenzene-d5                             | 4165-60-0  | E625/WT      | %    | 81.3                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Terphenyl-d14, p-                           | 1718-51-0  | E625/WT      | %    | 84.5                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Per- and Polyfluoroalkyl Substances (PFAS)  |            |              |      |                                                |      |      |      |      |      |      |
| Perfluorobutanoic acid [PFBA]               | 375-22-4   | E745DW/WT    | ng/L | <5.0 <sup>DLM</sup>                            | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluoropentanoic acid [PFPeA]             | 2706-90-3  | E745DW/WT    | ng/L | <2.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorohexanoic acid [PFHxA]              | 307-24-4   | E745DW/WT    | ng/L | <0.40                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluoroheptanoic acid [PFHpA]             | 375-85-9   | E745DW/WT    | ng/L | <1.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorooctanoic acid [PFOA]               | 335-67-1   | E745DW/WT    | ng/L | <1.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorononanoic acid [PFNA]               | 375-95-1   | E745DW/WT    | ng/L | <2.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorodecanoic acid [PFDA]               | 335-76-2   | E745DW/WT    | ng/L | <2.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluoroundecanoic acid [PFUnA]            | 2058-94-8  | E745DW/WT    | ng/L | <1.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorododecanoic acid [PFDoA]            | 307-55-1   | E745DW/WT    | ng/L | <2.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |





Matrix: Water

| Client sample ID                                                  |             |            |      | Treated Water Entering the Distribution System | ---- | ---- | ---- | ---- | ---- | ---- |
|-------------------------------------------------------------------|-------------|------------|------|------------------------------------------------|------|------|------|------|------|------|
| Client sampling date / time                                       |             |            |      | 02-Jul-2025 09:50                              | ---- | ---- | ---- | ---- | ---- | ---- |
| Sub-Matrix                                                        |             |            |      | Water                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Analyte                                                           | CAS Number  | Method/Lab | Unit | GP2501197-001                                  | ---- | ---- | ---- | ---- | ---- | ---- |
|                                                                   |             |            |      | Result                                         | ---- | ---- | ---- | ---- | ---- | ---- |
| Per- and Polyfluoroalkyl Substances (PFAS)                        |             |            |      |                                                |      |      |      |      |      |      |
| Perfluorotridecanoic acid [PFTTrDA]                               | 72629-94-8  | E745DW/WT  | ng/L | <2.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Perfluorotetradecanoic acid [PFTeDA]</b>                       | 376-06-7    | E745DW/WT  | ng/L | <1.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorobutanesulfonic acid [PFBS]                               | 375-73-5    | E745DW/WT  | ng/L | <1.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Perfluoropentanesulfonic acid [PFPeS]</b>                      | 2706-91-4   | E745DW/WT  | ng/L | <2.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorohexanesulfonic acid [PFHxS]                              | 355-46-4    | E745DW/WT  | ng/L | <2.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Perfluoroheptanesulfonic acid [PFHpS]</b>                      | 375-92-8    | E745DW/WT  | ng/L | <2.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorooctanesulfonic acid [PFOS]                               | 1763-23-1   | E745DW/WT  | ng/L | <2.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Perfluorononanesulfonic acid [PFNS]</b>                        | 68259-12-1  | E745DW/WT  | ng/L | <2.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorodecanesulfonic acid [PFDS]                               | 335-77-3    | E745DW/WT  | ng/L | <2.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Perfluorododecanesulfonic acid [PFDoS]</b>                     | 79780-39-5  | E745DW/WT  | ng/L | <2.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Fluorotelomer sulfonic acid, 4:2 [4:2 FTS]                        | 757124-72-4 | E745DW/WT  | ng/L | <1.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Fluorotelomer sulfonic acid, 6:2 [6:2 FTS]</b>                 | 27619-97-2  | E745DW/WT  | ng/L | <3.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Fluorotelomer sulfonic acid, 8:2 [8:2 FTS]                        | 39108-34-4  | E745DW/WT  | ng/L | <1.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Perfluorooctanesulfonamide [PFOSA]</b>                         | 754-91-6    | E745DW/WT  | ng/L | <2.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Methyl perfluorooctanesulfonamide, N- [NMeFOSA]                   | 31506-32-8  | E745DW/WT  | ng/L | <2.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Ethyl perfluorooctanesulfonamide, N- [NEtFOSA]</b>             | 4151-50-2   | E745DW/WT  | ng/L | <2.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Methyl perfluorooctanesulfonamidoacetic acid, N- [NMeFOSAA]       | 2355-31-9   | E745DW/WT  | ng/L | <4.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Ethyl perfluorooctanesulfonamidoacetic acid, N- [NEtFOSAA]</b> | 2991-50-6   | E745DW/WT  | ng/L | <4.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |



Matrix: Water

| Client sample ID                                                     |             |            |      | Treated Water Entering the Distribution System | ---- | ---- | ---- | ---- | ---- | ---- |
|----------------------------------------------------------------------|-------------|------------|------|------------------------------------------------|------|------|------|------|------|------|
| Client sampling date / time                                          |             |            |      | 02-Jul-2025 09:50                              | ---- | ---- | ---- | ---- | ---- | ---- |
| Sub-Matrix                                                           |             |            |      | Water                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Analyte                                                              | CAS Number  | Method/Lab | Unit | GP2501197-001                                  | ---- | ---- | ---- | ---- | ---- | ---- |
|                                                                      |             |            |      | Result                                         | ---- | ---- | ---- | ---- | ---- | ---- |
| Per- and Polyfluoroalkyl Substances (PFAS)                           |             |            |      |                                                |      |      |      |      |      |      |
| Methyl perfluorooctanesulfonamidoethanol, N- [NMeFOSE]               | 24448-09-7  | E745DW/WT  | ng/L | <2.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Ethyl perfluorooctanesulfonamidoethanol, N- [NEtFOSE]                | 1691-99-2   | E745DW/WT  | ng/L | <2.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Hexafluoropropylene oxide dimer acid [HFPO-DA]                       | 13252-13-6  | E745DW/WT  | ng/L | <4.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorononanoic acid, 4,8-dioxa-3H- [ADONA]                        | 919005-14-4 | E745DW/WT  | ng/L | <0.40                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluoro-3-methoxypropanoic acid [PFMPA]                            | 377-73-1    | E745DW/WT  | ng/L | <0.40                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluoro-4-methoxybutanoic acid [PFMBA]                             | 863090-89-5 | E745DW/WT  | ng/L | <0.40                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Nonafluoro-3,6-dioxaheptanoic acid [NFDHA]                           | 151772-58-6 | E745DW/WT  | ng/L | <4.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid, 9- [9Cl-PF3ONS]    | 756426-58-1 | E745DW/WT  | ng/L | <0.40                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid, 11- [11Cl-PF3OUdS] | 763051-92-9 | E745DW/WT  | ng/L | <0.40                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluoro(2-ethoxyethane)sulfonic acid [PFEEESA]                     | 113507-82-7 | E745DW/WT  | ng/L | <0.40                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Fluorotelomer carboxylic acid, 3:3 [3:3 FTCA]                        | 356-02-5    | E745DW/WT  | ng/L | <10                                            | ---- | ---- | ---- | ---- | ---- | ---- |
| Fluorotelomer carboxylic acid, 5:3 [5:3 FTCA]                        | 914637-49-3 | E745DW/WT  | ng/L | <4.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Fluorotelomer carboxylic acid, 7:3 [7:3 FTCA]                        | 812-70-4    | E745DW/WT  | ng/L | <4                                             | ---- | ---- | ---- | ---- | ---- | ---- |
| PFAS, total [EPA 533 / Health Canada list]                           | n/a         | EC745DW/WT | ng/L | <10                                            | ---- | ---- | ---- | ---- | ---- | ---- |
| Chlorinated Phenolics                                                |             |            |      |                                                |      |      |      |      |      |      |
| Dichlorophenol, 2,4-                                                 | 120-83-2    | E625/WT    | µg/L | <0.20                                          | ---- | ---- | ---- | ---- | ---- | ---- |



**Matrix: Water**

| Matrix: Water                                                    |            |            |      | Client sample ID | Treated Water Entering the Distribution System | ---- | ---- | ---- | ---- | ---- | ---- |
|------------------------------------------------------------------|------------|------------|------|------------------|------------------------------------------------|------|------|------|------|------|------|
| Client sampling date / time                                      |            |            |      |                  | 02-Jul-2025 09:50                              | ---- | ---- | ---- | ---- | ---- | ---- |
| Sub-Matrix                                                       |            |            |      |                  | Water                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Analyte                                                          | CAS Number | Method/Lab | Unit | GP2501197-001    | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |
|                                                                  |            |            |      | Result           | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Chlorinated Phenolics                                            |            |            |      |                  |                                                |      |      |      |      |      |      |
| Pentachlorophenol [PCP]                                          | 87-86-5    | E625/WT    | µg/L | <0.50            | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Tetrachlorophenol, 2,3,4,6-                                      | 58-90-2    | E625/WT    | µg/L | <0.50            | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Trichlorophenol, 2,4,6-                                          | 88-06-2    | E625/WT    | µg/L | <0.20            | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Phenolics Surrogates                                             |            |            |      |                  |                                                |      |      |      |      |      |      |
| Tribromophenol, 2,4,6-                                           | 118-79-6   | E625/WT    | %    | 86.9             | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Extracted Internal Standards (EIS) [PFAS]                        |            |            |      |                  |                                                |      |      |      |      |      |      |
| Ethyl perfluorooctanesulfonamide, n-D5 [D5-NEtFOSA]              | n/a        | E745DW/WT  | %    | 53.9             | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Ethyl perfluorooctanesulfonamidoacetic acid, n-D5 [D5-NEtFOSAA]  | n/a        | E745DW/WT  | %    | 83.1             | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Ethyl perfluorooctanesulfonamidoethanol, n-D9 [D9-NEtFOSE]       | n/a        | E745DW/WT  | %    | 74.4             | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Fluorotelomer sulfonic acid, 4:2-13C2 [13C2-4:2 FTS]             | n/a        | E745DW/WT  | %    | 153              | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Fluorotelomer sulfonic acid, 6:2-13C2 [13C2-6:2 FTS]             | n/a        | E745DW/WT  | %    | 116              | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Fluorotelomer sulfonic acid, 8:2-13C2 [13C2-8:2 FTS]             | n/a        | E745DW/WT  | %    | 92.6             | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Hexafluoropropylene oxide dimer acid-13C3 [13C3-HFPO-DA]         | n/a        | E745DW/WT  | %    | 91.5             | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Methyl perfluorooctanesulfonamide, n-D3 [D3-NMeFOSA]             | n/a        | E745DW/WT  | %    | 56.1             | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Methyl perfluorooctanesulfonamidoacetic acid, n-D3 [D3-NMeFOSAA] | n/a        | E745DW/WT  | %    | 83.8             | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Methyl perfluorooctanesulfonamidoethanol, n-D7 [D7-NMeFOSE]      | n/a        | E745DW/WT  | %    | 73.4             | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |



Matrix: Water

| Client sample ID                                      |            |            |      | Treated Water Entering the Distribution System | ---- | ---- | ---- | ---- | ---- | ---- |
|-------------------------------------------------------|------------|------------|------|------------------------------------------------|------|------|------|------|------|------|
| Client sampling date / time                           |            |            |      | 02-Jul-2025 09:50                              | ---- | ---- | ---- | ---- | ---- | ---- |
| Sub-Matrix                                            |            |            |      | Water                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Analyte                                               | CAS Number | Method/Lab | Unit | GP2501197-001                                  | ---- | ---- | ---- | ---- | ---- | ---- |
|                                                       |            |            |      | Result                                         | ---- | ---- | ---- | ---- | ---- | ---- |
| Extracted Internal Standards (EIS) [PFAS]             |            |            |      |                                                |      |      |      |      |      |      |
| <b>Perfluorobutanesulfonic acid-13C3 [13C3-PFBS]</b>  | n/a        | E745DW/WT  | %    | 82.5                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorobutanoic acid-13C4 [13C4-PFBA]               | n/a        | E745DW/WT  | %    | 97.4                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Perfluorodecanoic acid-13C6 [13C6-PFDA]</b>        | n/a        | E745DW/WT  | %    | 89.3                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorododecanoic acid-13C2 [13C2-PFDoA]            | n/a        | E745DW/WT  | %    | 92.8                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Perfluoroheptanoic acid-13C4 [13C4-PFHpA]</b>      | n/a        | E745DW/WT  | %    | 97.4                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorohexane sulfonic acid-13C3 [13C3-PFHxS]       | n/a        | E745DW/WT  | %    | 108                                            | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Perfluorohexanoic acid-13C5 [13C5-PFHxA]</b>       | n/a        | E745DW/WT  | %    | 93.7                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorononanoic acid-13C9 [13C9-PFNA]               | n/a        | E745DW/WT  | %    | 91.7                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Perfluorooctanesulfonamide-13C8 [13C8-PFOA]</b>    | n/a        | E745DW/WT  | %    | 85.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorooctanesulfonic acid-13C8 [13C8-PFOS]         | n/a        | E745DW/WT  | %    | 83.1                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Perfluorooctanoic acid-13C8 [13C8-PFOA]</b>        | n/a        | E745DW/WT  | %    | 98.3                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluoropentanoic acid-13C5 [13C5-PFPeA]             | n/a        | E745DW/WT  | %    | 92.1                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Perfluorotetradecanoic acid-13C2 [13C2-PFTeDA]</b> | n/a        | E745DW/WT  | %    | 88.2                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluoroundecanoic acid-13C7 [13C7-PFUnA]            | n/a        | E745DW/WT  | %    | 87.5                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Organochlorine Pesticides                             |            |            |      |                                                |      |      |      |      |      |      |
| <b>Methoxychlor</b>                                   | 72-43-5    | E660F/WT   | µg/L | <0.0080                                        | ---- | ---- | ---- | ---- | ---- | ---- |



**Matrix: Water**

| Client sample ID                                     |            |            |      | Treated Water Entering the Distribution System | ---- | ---- | ---- | ---- | ---- | ---- |
|------------------------------------------------------|------------|------------|------|------------------------------------------------|------|------|------|------|------|------|
| Client sampling date / time                          |            |            |      | 02-Jul-2025 09:50                              | ---- | ---- | ---- | ---- | ---- | ---- |
| Sub-Matrix                                           |            |            |      | Water                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Analyte                                              | CAS Number | Method/Lab | Unit | GP2501197-001                                  | ---- | ---- | ---- | ---- | ---- | ---- |
|                                                      |            |            |      | Result                                         | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Organochlorine Pesticides Surrogates</b>          |            |            |      |                                                |      |      |      |      |      |      |
| <b>Decachlorobiphenyl</b>                            | 2051-24-3  | E660F/WT   | %    | 102                                            | ---- | ---- | ---- | ---- | ---- | ---- |
| Tetrachloro-m-xylene                                 | 877-09-8   | E660F/WT   | %    | 85.9                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Herbicides</b>                                    |            |            |      |                                                |      |      |      |      |      |      |
| <b>Acetic acid, 2-methyl-4-chlorophenoxy- [MCPA]</b> | 94-74-6    | E706A/WT   | µg/L | <0.050                                         | ---- | ---- | ---- | ---- | ---- | ---- |
| Atrazine                                             | 1912-24-9  | E755/WT    | µg/L | <0.050                                         | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Atrazine + N-dealkylated metabolites</b>          | ----       | E755/WT    | µg/L | <0.10                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Atrazine-desethyl                                    | 6190-65-4  | E755/WT    | µg/L | <0.025                                         | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Bromoxynil</b>                                    | 1689-84-5  | E706A/WT   | µg/L | <0.050                                         | ---- | ---- | ---- | ---- | ---- | ---- |
| Dicamba                                              | 1918-00-9  | E706A/WT   | µg/L | <0.10                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Dichlorophenoxyacetic acid, 2,4- [2,4-D]</b>      | 94-75-7    | E706A/WT   | µg/L | <0.050                                         | ---- | ---- | ---- | ---- | ---- | ---- |
| Diquat (ion)                                         | 2764-72-9  | E723A/WT   | µg/L | <1.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Diuron</b>                                        | 330-54-1   | E755/WT    | µg/L | <0.050                                         | ---- | ---- | ---- | ---- | ---- | ---- |
| Glyphosate                                           | 1071-83-6  | E716A/WT   | µg/L | <1.0                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Metolachlor</b>                                   | 51218-45-2 | E755/WT    | µg/L | <0.025                                         | ---- | ---- | ---- | ---- | ---- | ---- |
| Metribuzin                                           | 21087-64-9 | E755/WT    | µg/L | <0.10                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Picloram</b>                                      | 1918-02-1  | E706A/WT   | µg/L | <0.10                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Simazine                                             | 122-34-9   | E755/WT    | µg/L | <0.10                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Trifluralin</b>                                   | 1582-09-8  | E756/WT    | µg/L | <0.10                                          | ---- | ---- | ---- | ---- | ---- | ---- |



**Matrix: Water**

| Client sample ID                       |             |                   |      | Treated Water<br>Entering the<br>Distribution<br>System | ---- | ---- | ---- | ---- | ---- | ---- |
|----------------------------------------|-------------|-------------------|------|---------------------------------------------------------|------|------|------|------|------|------|
| Client sampling date / time            |             |                   |      | 02-Jul-2025 09:50                                       | ---- | ---- | ---- | ---- | ---- | ---- |
| Sub-Matrix                             |             |                   |      | Water                                                   | ---- | ---- | ---- | ---- | ---- | ---- |
| Analyte                                | CAS Number  | Method/Lab        | Unit | GP2501197-001                                           | ---- | ---- | ---- | ---- | ---- | ---- |
|                                        |             |                   |      | Result                                                  | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Herbicides Surrogates</b>           |             |                   |      |                                                         |      |      |      |      |      |      |
| <b>Dichlorophenylacetic acid, 2,4-</b> | 19719-28-9  | E706A/WT          | %    | 85.9                                                    | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Insecticides</b>                    |             |                   |      |                                                         |      |      |      |      |      |      |
| <b>Carbaryl</b>                        | 63-25-2     | E755/WT           | µg/L | <0.050                                                  | ---- | ---- | ---- | ---- | ---- | ---- |
| Chlorpyrifos                           | 2921-88-2   | E756/WT           | µg/L | <0.10                                                   | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Diazinon</b>                        | 333-41-5    | E755/WT           | µg/L | <0.025                                                  | ---- | ---- | ---- | ---- | ---- | ---- |
| Dimethoate                             | 60-51-5     | E755/WT           | µg/L | <0.050                                                  | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Malathion</b>                       | 121-75-5    | E755/WT           | µg/L | <0.025                                                  | ---- | ---- | ---- | ---- | ---- | ---- |
| Omethoate                              | 1113-02-6   | E755/WT           | µg/L | <0.050                                                  | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Phorate</b>                         | 298-02-2    | E755/WT           | µg/L | <0.25                                                   | ---- | ---- | ---- | ---- | ---- | ---- |
| Omethoate (as dimethoate)              | n/a         | E755/WT           | µg/L | <0.16                                                   | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Nitrosamines</b>                    |             |                   |      |                                                         |      |      |      |      |      |      |
| <b>Nitrosodimethylamine, N- [NDMA]</b> | 62-75-9     | E725A/WT          | µg/L | <0.034                                                  | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Nitrosamines Surrogates</b>         |             |                   |      |                                                         |      |      |      |      |      |      |
| <b>Nitrosodimethylamine-d6, N-</b>     | 17829-05-9  | E725A/WT          | %    | 107                                                     | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Organic Parameters</b>              |             |                   |      |                                                         |      |      |      |      |      |      |
| <b>Microcystin</b>                     | 101043-37-2 | E576/WP           | µg/L | <0.15                                                   | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Radiological Parameters</b>         |             |                   |      |                                                         |      |      |      |      |      |      |
| <b>Cesium-137</b>                      | ----        | I131+Cs137/2<br>I | Bq/L | See<br>Attached                                         | ---- | ---- | ---- | ---- | ---- | ---- |
| Iodine-131                             | ----        | I131+Cs137/2<br>I | Bq/L | See<br>Attached                                         | ---- | ---- | ---- | ---- | ---- | ---- |



Matrix: Water

|                             |            |            |      |                  |                                                |      |      |      |      |      |      |
|-----------------------------|------------|------------|------|------------------|------------------------------------------------|------|------|------|------|------|------|
| Matrix: Water               |            |            |      | Client sample ID | Treated Water Entering the Distribution System | ---- | ---- | ---- | ---- | ---- | ---- |
| Client sampling date / time |            |            |      |                  | 02-Jul-2025 09:50                              | ---- | ---- | ---- | ---- | ---- | ---- |
| Sub-Matrix                  |            |            |      |                  | Water                                          | ---- | ---- | ---- | ---- | ---- | ---- |
| Analyte                     | CAS Number | Method/Lab | Unit | GP2501197-001    | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |
|                             |            |            |      | Result           | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Radiological Parameters     |            |            |      |                  |                                                |      |      |      |      |      |      |
| Lead-210                    | 14255-04-0 | Pb-210/2l  | Bq/L | See Attached     | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Radium-226                  | 13982-63-3 | Ra-226/2l  | Bq/L | See Attached     | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Radon-222                   | 14859-67-7 | Rn222/2l   | Bq/L | See Attached     | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Strontium-90                | ----       | Sr90/2l    | Bq/L | See Attached     | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |
| Tritium                     | 10028-17-8 | TRITIUM/2l | Bq/L | See Attached     | ----                                           | ---- | ---- | ---- | ---- | ---- | ---- |

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



## Summary of Guideline Limits

| Analyte                                            | CAS Number | Unit     | CDWG<br>AO | CDWG<br>MAC | CDWG<br>OG        |      |      |      |      |
|----------------------------------------------------|------------|----------|------------|-------------|-------------------|------|------|------|------|
| <b>Physical Tests</b>                              |            |          |            |             |                   |      |      |      |      |
| Absorbance, UV (@ 254nm)                           |            | AU/cm    | ----       | ----        | ----              | ---- | ---- | ---- | ---- |
| Colour, true                                       |            | CU       | 15 CU      | ----        | ----              | ---- | ---- | ---- | ---- |
| Conductivity                                       | ----       | µS/cm    | ----       | ----        | ----              | ---- | ---- | ---- | ---- |
| Hardness (as CaCO <sub>3</sub> ), from total Ca/Mg |            | mg/L     | ----       | ----        | ----              | ---- | ---- | ---- | ---- |
| pH                                                 | ----       | pH units | ----       | ----        | 7 - 10.5 pH units | ---- | ---- | ---- | ---- |
| Solids, total dissolved [TDS]                      |            | mg/L     | 500 mg/L   | ----        | ----              | ---- | ---- | ---- | ---- |
| Turbidity                                          | ----       | NTU      | 1 NTU      | ----        | ----              | ---- | ---- | ---- | ---- |
| Transmittance, UV (@ 254nm)                        |            | % T/cm   | ----       | ----        | ----              | ---- | ---- | ---- | ---- |
| <b>Anions and Nutrients</b>                        |            |          |            |             |                   |      |      |      |      |
| Ammonia, total (as N)                              | 7664-41-7  | mg/L     | ----       | ----        | ----              | ---- | ---- | ---- | ---- |
| Chloride                                           | 16887-00-6 | mg/L     | 250 mg/L   | ----        | ----              | ---- | ---- | ---- | ---- |
| Fluoride                                           | 16984-48-8 | mg/L     | ----       | 1.5 mg/L    | ----              | ---- | ---- | ---- | ---- |
| Nitrate (as N)                                     | 14797-55-8 | mg/L     | ----       | 10 mg/L     | ----              | ---- | ---- | ---- | ---- |
| Nitrate + Nitrite (as N)                           |            | mg/L     | ----       | 10 mg/L     | ----              | ---- | ---- | ---- | ---- |
| Nitrite (as N)                                     | 14797-65-0 | mg/L     | ----       | 1 mg/L      | ----              | ---- | ---- | ---- | ---- |
| Sulfate (as SO <sub>4</sub> )                      | 14808-79-8 | mg/L     | 500 mg/L   | ----        | ----              | ---- | ---- | ---- | ---- |
| <b>Cyanides</b>                                    |            |          |            |             |                   |      |      |      |      |
| Cyanide, strong acid dissociable (Total)           | ----       | mg/L     | ----       | ----        | ----              | ---- | ---- | ---- | ---- |
| <b>Organic / Inorganic Carbon</b>                  |            |          |            |             |                   |      |      |      |      |
| Carbon, total organic [TOC]                        |            | mg/L     | ----       | ----        | ----              | ---- | ---- | ---- | ---- |
| <b>Inorganics</b>                                  |            |          |            |             |                   |      |      |      |      |
| Chlorine, total                                    | 7782-50-5  | mg/L     | ----       | ----        | ----              | ---- | ---- | ---- | ---- |
| Chlorite                                           | 14998-27-7 | mg/L     | ----       | 1 mg/L      | ----              | ---- | ---- | ---- | ---- |
| Chlorine, free                                     | 7782-50-5  | mg/L     | ----       | ----        | ----              | ---- | ---- | ---- | ---- |





|                                   |            |      |           |            |          |      |      |      |      |
|-----------------------------------|------------|------|-----------|------------|----------|------|------|------|------|
| Chloramines, total (as Cl2)       |            | mg/L | ----      | ----       | ----     | ---- | ---- | ---- | ---- |
| <b>Total Sulfides</b>             |            |      |           |            |          |      |      |      |      |
| Sulfide, total (as S)             | 18496-25-8 | mg/L | ----      | ----       | ----     | ---- | ---- | ---- | ---- |
| Sulfide, total (as H2S)           | 7783-06-4  | mg/L | 0.05 mg/L | ----       | ----     | ---- | ---- | ---- | ---- |
| <b>Total Metals</b>               |            |      |           |            |          |      |      |      |      |
| Aluminum, total                   | 7429-90-5  | mg/L | ----      | 2.9 mg/L   | 0.1 mg/L | ---- | ---- | ---- | ---- |
| Antimony, total                   | 7440-36-0  | mg/L | ----      | 0.006 mg/L | ----     | ---- | ---- | ---- | ---- |
| Arsenic, total                    | 7440-38-2  | mg/L | ----      | 0.01 mg/L  | ----     | ---- | ---- | ---- | ---- |
| Barium, total                     | 7440-39-3  | mg/L | ----      | 2 mg/L     | ----     | ---- | ---- | ---- | ---- |
| Boron, total                      | 7440-42-8  | mg/L | ----      | 5 mg/L     | ----     | ---- | ---- | ---- | ---- |
| Cadmium, total                    | 7440-43-9  | µg/L | ----      | 7 µg/L     | ----     | ---- | ---- | ---- | ---- |
| Calcium, total                    | 7440-70-2  | mg/L | ----      | ----       | ----     | ---- | ---- | ---- | ---- |
| Chromium, total                   | 7440-47-3  | mg/L | ----      | 0.05 mg/L  | ----     | ---- | ---- | ---- | ---- |
| Copper, total                     | 7440-50-8  | mg/L | 1 mg/L    | 2 mg/L     | ----     | ---- | ---- | ---- | ---- |
| Iron, total                       | 7439-89-6  | mg/L | 0.1 mg/L  | ----       | ----     | ---- | ---- | ---- | ---- |
| Lead, total                       | 7439-92-1  | µg/L | ----      | 5 µg/L     | ----     | ---- | ---- | ---- | ---- |
| Magnesium, total                  | 7439-95-4  | mg/L | ----      | ----       | ----     | ---- | ---- | ---- | ---- |
| Manganese, total                  | 7439-96-5  | mg/L | 0.02 mg/L | 0.12 mg/L  | ----     | ---- | ---- | ---- | ---- |
| Mercury, total                    | 7439-97-6  | µg/L | ----      | 1 µg/L     | ----     | ---- | ---- | ---- | ---- |
| Selenium, total                   | 7782-49-2  | µg/L | ----      | 50 µg/L    | ----     | ---- | ---- | ---- | ---- |
| Silver, total                     | 7440-22-4  | µg/L | ----      | ----       | ----     | ---- | ---- | ---- | ---- |
| Sodium, total                     | 7440-23-5  | mg/L | 200 mg/L  | ----       | ----     | ---- | ---- | ---- | ---- |
| Strontium, total                  | 7440-24-6  | mg/L | ----      | 7 mg/L     | ----     | ---- | ---- | ---- | ---- |
| Uranium, total                    | 7440-61-1  | µg/L | ----      | 20 µg/L    | ----     | ---- | ---- | ---- | ---- |
| Zinc, total                       | 7440-66-6  | mg/L | 5 mg/L    | ----       | ----     | ---- | ---- | ---- | ---- |
| <b>Aggregate Organics</b>         |            |      |           |            |          |      |      |      |      |
| Nitritotriacetic acid [NTA]       | 139-13-9   | mg/L | ----      | 0.4 mg/L   | ----     | ---- | ---- | ---- | ---- |
| <b>Volatile Organic Compounds</b> |            |      |           |            |          |      |      |      |      |



|                                              |             |      |          |           |      |      |      |      |      |
|----------------------------------------------|-------------|------|----------|-----------|------|------|------|------|------|
| Benzene                                      | 71-43-2     | µg/L | ----     | 5 µg/L    | ---- | ---- | ---- | ---- | ---- |
| Carbon tetrachloride                         | 56-23-5     | µg/L | ----     | 5 µg/L    | ---- | ---- | ---- | ---- | ---- |
| Chlorobenzene                                | 108-90-7    | µg/L | 30 µg/L  | ----      | ---- | ---- | ---- | ---- | ---- |
| Dichlorobenzene, 1,2-                        | 95-50-1     | µg/L | 3 µg/L   | ----      | ---- | ---- | ---- | ---- | ---- |
| Dichlorobenzene, 1,4-                        | 106-46-7    | µg/L | 1 µg/L   | 5 µg/L    | ---- | ---- | ---- | ---- | ---- |
| Dichloroethane, 1,2-                         | 107-06-2    | µg/L | ----     | 5 µg/L    | ---- | ---- | ---- | ---- | ---- |
| Dichloroethylene, 1,1-                       | 75-35-4     | µg/L | ----     | ----      | ---- | ---- | ---- | ---- | ---- |
| Dichloromethane                              | 75-09-2     | µg/L | ----     | 50 µg/L   | ---- | ---- | ---- | ---- | ---- |
| Dioxane, 1,4-                                | 123-91-1    | µg/L | ----     | 50 µg/L   | ---- | ---- | ---- | ---- | ---- |
| Ethylbenzene                                 | 100-41-4    | µg/L | 1.6 µg/L | 140 µg/L  | ---- | ---- | ---- | ---- | ---- |
| Tetrachloroethylene                          | 127-18-4    | µg/L | ----     | 10 µg/L   | ---- | ---- | ---- | ---- | ---- |
| Toluene                                      | 108-88-3    | µg/L | 24 µg/L  | 60 µg/L   | ---- | ---- | ---- | ---- | ---- |
| Trichloroethylene                            | 79-01-6     | µg/L | ----     | 5 µg/L    | ---- | ---- | ---- | ---- | ---- |
| Vinyl chloride                               | 75-01-4     | µg/L | ----     | 2 µg/L    | ---- | ---- | ---- | ---- | ---- |
| Xylene, m+p-                                 | 179601-23-1 | µg/L | ----     | ----      | ---- | ---- | ---- | ---- | ---- |
| Xylene, o-                                   | 95-47-6     | µg/L | ----     | ----      | ---- | ---- | ---- | ---- | ---- |
| Xylenes, total                               | 1330-20-7   | µg/L | 20 µg/L  | 90 µg/L   | ---- | ---- | ---- | ---- | ---- |
| <b>Volatile Organic Compounds Surrogates</b> |             |      |          |           |      |      |      |      |      |
| Bromofluorobenzene, 4-                       | 460-00-4    | %    | ----     | ----      | ---- | ---- | ---- | ---- | ---- |
| Difluorobenzene, 1,4-                        | 540-36-3    | %    | ----     | ----      | ---- | ---- | ---- | ---- | ---- |
| <b>Polycyclic Aromatic Hydrocarbons</b>      |             |      |          |           |      |      |      |      |      |
| Benzo(a)pyrene                               | 50-32-8     | µg/L | ----     | 0.04 µg/L | ---- | ---- | ---- | ---- | ---- |
| Chrysene-d12                                 | 1719-03-5   | %    | ----     | ----      | ---- | ---- | ---- | ---- | ---- |
| Naphthalene-d8                               | 1146-65-2   | %    | ----     | ----      | ---- | ---- | ---- | ---- | ---- |
| Phenanthrene-d10                             | 1517-22-2   | %    | ----     | ----      | ---- | ---- | ---- | ---- | ---- |
| <b>Disinfectant By-Products</b>              |             |      |          |           |      |      |      |      |      |
| Bromate                                      | 15541-45-4  | mg/L | ----     | 0.01 mg/L | ---- | ---- | ---- | ---- | ---- |
| Chlorate                                     | 14866-68-3  | mg/L | ----     | 1 mg/L    | ---- | ---- | ---- | ---- | ---- |



| Semi-Volatile Organics Surrogates          |             |      |      |      |      |      |      |      |      |
|--------------------------------------------|-------------|------|------|------|------|------|------|------|------|
| Fluorobiphenyl, 2-                         | 321-60-8    | %    | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Nitrobenzene-d5                            | 4165-60-0   | %    | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Terphenyl-d14, p-                          | 1718-51-0   | %    | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Per- and Polyfluoroalkyl Substances (PFAS) |             |      |      |      |      |      |      |      |      |
| Perfluorobutanoic acid [PFBA]              | 375-22-4    | ng/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluoropentanoic acid [PFPeA]            | 2706-90-3   | ng/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorohexanoic acid [PFHxA]             | 307-24-4    | ng/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluoroheptanoic acid [PFHpA]            | 375-85-9    | ng/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorooctanoic acid [PFOA]              | 335-67-1    | ng/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorononanoic acid [PFNA]              | 375-95-1    | ng/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorodecanoic acid [PFDA]              | 335-76-2    | ng/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluoroundecanoic acid [PFUnA]           | 2058-94-8   | ng/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorododecanoic acid [PFDoA]           | 307-55-1    | ng/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorotridecanoic acid [PFTrDA]         | 72629-94-8  | ng/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorotetradecanoic acid [PFTeDA]       | 376-06-7    | ng/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorobutanesulfonic acid [PFBS]        | 375-73-5    | ng/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluoropentanesulfonic acid [PFPeS]      | 2706-91-4   | ng/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorohexanesulfonic acid [PFHxS]       | 355-46-4    | ng/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluoroheptanesulfonic acid [PFHpS]      | 375-92-8    | ng/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorooctanesulfonic acid [PFOS]        | 1763-23-1   | ng/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorononanesulfonic acid [PFNS]        | 68259-12-1  | ng/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorodecanesulfonic acid [PFDS]        | 335-77-3    | ng/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorododecanesulfonic acid [PFDoS]     | 79780-39-5  | ng/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Fluorotelomer sulfonic acid, 4:2 [4:2 FTS] | 757124-72-4 | ng/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Fluorotelomer sulfonic acid, 6:2 [6:2 FTS] | 27619-97-2  | ng/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Fluorotelomer sulfonic acid, 8:2 [8:2 FTS] | 39108-34-4  | ng/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |



|                                                                      |             |      |      |      |         |      |      |      |      |
|----------------------------------------------------------------------|-------------|------|------|------|---------|------|------|------|------|
| Perfluorooctanesulfonamide [PFOSA]                                   | 754-91-6    | ng/L | ---- | ---- | ----    | ---- | ---- | ---- | ---- |
| Methyl perfluorooctanesulfonamide, N- [NMeFOSA]                      | 31506-32-8  | ng/L | ---- | ---- | ----    | ---- | ---- | ---- | ---- |
| Ethyl perfluorooctanesulfonamide, N- [NEtFOSA]                       | 4151-50-2   | ng/L | ---- | ---- | ----    | ---- | ---- | ---- | ---- |
| Methyl perfluorooctanesulfonamidoacetic acid, N- [NMeFOSAA]          | 2355-31-9   | ng/L | ---- | ---- | ----    | ---- | ---- | ---- | ---- |
| Ethyl perfluorooctanesulfonamidoacetic acid, N- [NEtFOSAA]           | 2991-50-6   | ng/L | ---- | ---- | ----    | ---- | ---- | ---- | ---- |
| Methyl perfluorooctanesulfonamidoethanol, N- [NMeFOSE]               | 24448-09-7  | ng/L | ---- | ---- | ----    | ---- | ---- | ---- | ---- |
| Ethyl perfluorooctanesulfonamidoethanol, N - [NEtFOSE]               | 1691-99-2   | ng/L | ---- | ---- | ----    | ---- | ---- | ---- | ---- |
| Hexafluoropropylene oxide dimer acid [HFPO-DA]                       | 13252-13-6  | ng/L | ---- | ---- | ----    | ---- | ---- | ---- | ---- |
| Perfluorononanoic acid, 4,8-dioxa-3H- [ADONA]                        | 919005-14-4 | ng/L | ---- | ---- | ----    | ---- | ---- | ---- | ---- |
| Perfluoro-3-methoxypropanoic acid [PFMPA]                            | 377-73-1    | ng/L | ---- | ---- | ----    | ---- | ---- | ---- | ---- |
| Perfluoro-4-methoxybutanoic acid [PFMBA]                             | 863090-89-5 | ng/L | ---- | ---- | ----    | ---- | ---- | ---- | ---- |
| Nonafluoro-3,6-dioxaheptanoic acid [NFDHA]                           | 151772-58-6 | ng/L | ---- | ---- | ----    | ---- | ---- | ---- | ---- |
| Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid, 9- [9Cl-PF3ONS]    | 756426-58-1 | ng/L | ---- | ---- | ----    | ---- | ---- | ---- | ---- |
| Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid, 11- [11Cl-PF3OUdS] | 763051-92-9 | ng/L | ---- | ---- | ----    | ---- | ---- | ---- | ---- |
| Perfluoro(2-ethoxyethane)sulfonic acid [PFEEESA]                     | 113507-82-7 | ng/L | ---- | ---- | ----    | ---- | ---- | ---- | ---- |
| Fluorotelomer carboxylic acid, 3:3 [3:3 FTCA]                        | 356-02-5    | ng/L | ---- | ---- | ----    | ---- | ---- | ---- | ---- |
| Fluorotelomer carboxylic acid, 5:3 [5:3 FTCA]                        | 914637-49-3 | ng/L | ---- | ---- | ----    | ---- | ---- | ---- | ---- |
| Fluorotelomer carboxylic acid, 7:3 [7:3 FTCA]                        | 812-70-4    | ng/L | ---- | ---- | ----    | ---- | ---- | ---- | ---- |
| PFAS, total [EPA 533 / Health Canada list]                           | n/a         | ng/L | ---- | ---- | 30 ng/L | ---- | ---- | ---- | ---- |

#### Chlorinated Phenolics

|                             |          |      |          |         |      |      |      |      |      |
|-----------------------------|----------|------|----------|---------|------|------|------|------|------|
| Dichlorophenol, 2,4-        | 120-83-2 | µg/L | 0.3 µg/L | ----    | ---- | ---- | ---- | ---- | ---- |
| Pentachlorophenol [PCP]     | 87-86-5  | µg/L | 30 µg/L  | 60 µg/L | ---- | ---- | ---- | ---- | ---- |
| Tetrachlorophenol, 2,3,4,6- | 58-90-2  | µg/L | 1 µg/L   | ----    | ---- | ---- | ---- | ---- | ---- |
| Trichlorophenol, 2,4,6-     | 88-06-2  | µg/L | 2 µg/L   | 5 µg/L  | ---- | ---- | ---- | ---- | ---- |



|                                                                  |          |   |      |      |      |      |      |      |      |
|------------------------------------------------------------------|----------|---|------|------|------|------|------|------|------|
| Tribromophenol, 2,4,6-                                           | 118-79-6 | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| <b>Extracted Internal Standards (EIS) [PFAS]</b>                 |          |   |      |      |      |      |      |      |      |
| Ethyl perfluorooctanesulfonamide, n-D5 [D5-NEtFOSA]              | n/a      | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Ethyl perfluorooctanesulfonamidoacetic acid, n-D5 [D5-NEtFOSAA]  | n/a      | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Ethyl perfluorooctanesulfonamidoethanol, n-D9 [D9-NEtFOSE]       | n/a      | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Fluorotelomer sulfonic acid, 4:2-13C2 [13C2-4:2 FTS]             | n/a      | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Fluorotelomer sulfonic acid, 6:2-13C2 [13C2-6:2 FTS]             | n/a      | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Fluorotelomer sulfonic acid, 8:2-13C2 [13C2-8:2 FTS]             | n/a      | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Hexafluoropropylene oxide dimer acid-13C3 [13C3-HFPO-DA]         | n/a      | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Methyl perfluorooctanesulfonamide, n-D3 [D3-NMeFOSA]             | n/a      | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Methyl perfluorooctanesulfonamidoacetic acid, n-D3 [D3-NMeFOSAA] | n/a      | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Methyl perfluorooctanesulfonamidoethanol, n-D7 [D7-NMeFOSE]      | n/a      | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorobutanesulfonic acid-13C3 [13C3-PFBS]                    | n/a      | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorobutanoic acid-13C4 [13C4-PFBA]                          | n/a      | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorodecanoic acid-13C6 [13C6-PFDA]                          | n/a      | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorododecanoic acid-13C2 [13C2-PFDoA]                       | n/a      | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluoroheptanoic acid-13C4 [13C4-PFHpA]                        | n/a      | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorohexane sulfonic acid-13C3 [13C3-PFHxS]                  | n/a      | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorohexanoic acid-13C5 [13C5-PFHxA]                         | n/a      | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorononanoic acid-13C9 [13C9-PFNA]                          | n/a      | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorooctanesulfonamide-13C8 [13C8-PFOSA]                     | n/a      | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorooctanesulfonic acid-13C8 [13C8-PFOS]                    | n/a      | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluorooctanoic acid-13C8 [13C8-PFOA]                          | n/a      | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Perfluoropentanoic acid-13C5 [13C5-PFPeA]                        | n/a      | % | ---- | ---- | ---- | ---- | ---- | ---- | ---- |



|                                                |            |      |      |          |      |      |      |      |      |
|------------------------------------------------|------------|------|------|----------|------|------|------|------|------|
| Perfluorotetradecanoic acid-13C2 [13C2-PFTeDA] | n/a        | %    | ---- | ----     | ---- | ---- | ---- | ---- | ---- |
| Perfluoroundecanoic acid-13C7 [13C7-PFUnA]     | n/a        | %    | ---- | ----     | ---- | ---- | ---- | ---- | ---- |
| <b>Organochlorine Pesticides</b>               |            |      |      |          |      |      |      |      |      |
| Methoxychlor                                   | 72-43-5    | µg/L | ---- | ----     | ---- | ---- | ---- | ---- | ---- |
| Decachlorobiphenyl                             | 2051-24-3  | %    | ---- | ----     | ---- | ---- | ---- | ---- | ---- |
| Tetrachloro-m-xylene                           | 877-09-8   | %    | ---- | ----     | ---- | ---- | ---- | ---- | ---- |
| <b>Herbicides</b>                              |            |      |      |          |      |      |      |      |      |
| Acetic acid, 2-methyl-4-chlorophenoxy-[MCPA]   | 94-74-6    | µg/L | ---- | 350 µg/L | ---- | ---- | ---- | ---- | ---- |
| Atrazine                                       | 1912-24-9  | µg/L | ---- | ----     | ---- | ---- | ---- | ---- | ---- |
| Atrazine + N-dealkylated metabolites           |            | µg/L | ---- | 5 µg/L   | ---- | ---- | ---- | ---- | ---- |
| Atrazine-desethyl                              | 6190-65-4  | µg/L | ---- | ----     | ---- | ---- | ---- | ---- | ---- |
| Bromoxynil                                     | 1689-84-5  | µg/L | ---- | 30 µg/L  | ---- | ---- | ---- | ---- | ---- |
| Dicamba                                        | 1918-00-9  | µg/L | ---- | 110 µg/L | ---- | ---- | ---- | ---- | ---- |
| Dichlorophenoxyacetic acid, 2,4- [2,4-D]       | 94-75-7    | µg/L | ---- | 100 µg/L | ---- | ---- | ---- | ---- | ---- |
| Diquat (ion)                                   | 2764-72-9  | µg/L | ---- | 50 µg/L  | ---- | ---- | ---- | ---- | ---- |
| Diuron                                         | 330-54-1   | µg/L | ---- | ----     | ---- | ---- | ---- | ---- | ---- |
| Glyphosate                                     | 1071-83-6  | µg/L | ---- | 280 µg/L | ---- | ---- | ---- | ---- | ---- |
| Metolachlor                                    | 51218-45-2 | µg/L | ---- | ----     | ---- | ---- | ---- | ---- | ---- |
| Metribuzin                                     | 21087-64-9 | µg/L | ---- | 80 µg/L  | ---- | ---- | ---- | ---- | ---- |
| Picloram                                       | 1918-02-1  | µg/L | ---- | ----     | ---- | ---- | ---- | ---- | ---- |
| Simazine                                       | 122-34-9   | µg/L | ---- | ----     | ---- | ---- | ---- | ---- | ---- |
| Trifluralin                                    | 1582-09-8  | µg/L | ---- | ----     | ---- | ---- | ---- | ---- | ---- |
| Dichlorophenylacetic acid, 2,4-                | 19719-28-9 | %    | ---- | ----     | ---- | ---- | ---- | ---- | ---- |
| <b>Insecticides</b>                            |            |      |      |          |      |      |      |      |      |
| Carbaryl                                       | 63-25-2    | µg/L | ---- | ----     | ---- | ---- | ---- | ---- | ---- |
| Chlorpyrifos                                   | 2921-88-2  | µg/L | ---- | 90 µg/L  | ---- | ---- | ---- | ---- | ---- |
| Diazinon                                       | 333-41-5   | µg/L | ---- | ----     | ---- | ---- | ---- | ---- | ---- |



|                                 |             |      |      |           |      |      |      |      |      |
|---------------------------------|-------------|------|------|-----------|------|------|------|------|------|
| Dimethoate                      | 60-51-5     | µg/L | ---- | 20 µg/L   | ---- | ---- | ---- | ---- | ---- |
| Malathion                       | 121-75-5    | µg/L | ---- | 290 µg/L  | ---- | ---- | ---- | ---- | ---- |
| Omethoate                       | 1113-02-6   | µg/L | ---- | ----      | ---- | ---- | ---- | ---- | ---- |
| Phorate                         | 298-02-2    | µg/L | ---- | ----      | ---- | ---- | ---- | ---- | ---- |
| Omethoate (as dimethoate)       | n/a         | µg/L | ---- | ----      | ---- | ---- | ---- | ---- | ---- |
| <b>Nitrosamines</b>             |             |      |      |           |      |      |      |      |      |
| Nitrosodimethylamine, N- [NDMA] | 62-75-9     | µg/L | ---- | 0.04 µg/L | ---- | ---- | ---- | ---- | ---- |
| Nitrosodimethylamine-d6, N-     | 17829-05-9  | %    | ---- | ----      | ---- | ---- | ---- | ---- | ---- |
| <b>Organic Parameters</b>       |             |      |      |           |      |      |      |      |      |
| Microcystin                     | 101043-37-2 | µg/L | ---- | 1.5 µg/L  | ---- | ---- | ---- | ---- | ---- |
| <b>Radiological Parameters</b>  |             |      |      |           |      |      |      |      |      |
| Cesium-137                      | ----        | Bq/L | ---- | ----      | ---- | ---- | ---- | ---- | ---- |
| Iodine-131                      | ----        | Bq/L | ---- | 6 Bq/L    | ---- | ---- | ---- | ---- | ---- |
| Lead-210                        | 14255-04-0  | Bq/L | ---- | 0.2 Bq/L  | ---- | ---- | ---- | ---- | ---- |
| Radium-226                      | 13982-63-3  | Bq/L | ---- | 0.5 Bq/L  | ---- | ---- | ---- | ---- | ---- |
| Radon-222                       | 14859-67-7  | Bq/L | ---- | ----      | ---- | ---- | ---- | ---- | ---- |
| Strontium-90                    | ----        | Bq/L | ---- | 5 Bq/L    | ---- | ---- | ---- | ---- | ---- |
| Tritium                         | 10028-17-8  | Bq/L | ---- | 7000 Bq/L | ---- | ---- | ---- | ---- | ---- |

**Key:**

|      |                                                                   |
|------|-------------------------------------------------------------------|
| CDWG | Canada Guidelines for Canadian Drinking Water Quality (JAN, 2023) |
| AO   | Aesthetic Objective                                               |
| MAC  | Maximum Acceptable Concentrations                                 |
| OG   | Operational Guidance                                              |

## CERTIFICATE OF ANALYSIS

|                                |                                                                                      |                              |                                                               |
|--------------------------------|--------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------|
| <b>Work Order</b>              | <b>: GP2501197</b>                                                                   | <b>Page</b>                  | <b>: 1 of 8</b>                                               |
| <b>Client</b>                  | <b>: Aquatera Utilities Inc.</b>                                                     | <b>Laboratory</b>            | <b>: ALS Environmental - Grande Prairie</b>                   |
| <b>Contact</b>                 | <b>: Tamara Wuttunee-Cambell</b>                                                     | <b>Account Manager</b>       | <b>: Wanda Chapella</b>                                       |
| <b>Address</b>                 | <b>: Water Treatment Plant 11101 104 Avenue<br/>Grande Prairie AB Canada T8V 8H6</b> | <b>Address</b>               | <b>: 9505 111 Street<br/>Grande Prairie AB Canada T8V 5W1</b> |
| <b>Telephone</b>               | <b>: 780 532 3996</b>                                                                | <b>Telephone</b>             | <b>: 780-539-5196</b>                                         |
| <b>Project</b>                 | <b>: WT-GP</b>                                                                       | <b>Date Samples Received</b> | <b>: 02-Jul-2025 12:00</b>                                    |
| <b>PO</b>                      | <b>: 34893</b>                                                                       | <b>Date Analysis</b>         | <b>: 03-Jul-2025</b>                                          |
|                                |                                                                                      | <b>Commenced</b>             |                                                               |
|                                |                                                                                      | <b>Issue Date</b>            | <b>: 06-Aug-2025 12:00</b>                                    |
| <b>C-O-C number</b>            | <b>: ----</b>                                                                        |                              |                                                               |
| <b>Sampler</b>                 | <b>: Mike Boyce</b>                                                                  |                              |                                                               |
| <b>Site</b>                    | <b>: Aquatera</b>                                                                    |                              |                                                               |
| <b>Quote number</b>            | <b>: GP2021AQU11003</b>                                                              |                              |                                                               |
| <b>No. of samples received</b> | <b>: 1</b>                                                                           |                              |                                                               |
| <b>No. of samples analysed</b> | <b>: 1</b>                                                                           |                              |                                                               |

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

### Signatories

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

| <i>Signatories</i> | <i>Position</i>                           | <i>Laboratory Department</i>                     |
|--------------------|-------------------------------------------|--------------------------------------------------|
| Alastair McGibbon  | Laboratory Analyst                        | Inorganics, Edmonton, Alberta                    |
| Alex Drake         | Lab Analyst                               | Inorganics, Edmonton, Alberta                    |
| Alex Drake         | Lab Analyst                               | Metals, Edmonton, Alberta                        |
| Amaninder Dhillon  | Team Lead - Semi-Volatile Instrumentation | Organics, Waterloo, Ontario                      |
| Anthony Calero     | Supervisor - Inorganic                    | Inorganics, Calgary, Alberta                     |
| Brayden Ginther    | Laboratory Analyst                        | Inorganics, Edmonton, Alberta                    |
| Catherine DeMone   | Laboratory Analyst                        | LCMS, Waterloo, Ontario                          |
| Daniel Nguyen      | Laboratory Analyst                        | Metals, Edmonton, Alberta                        |
| Hannah Lewis       | Inorganics Analyst                        | Inorganics, Waterloo, Ontario                    |
| Harpreet Chawla    | Team Leader - Inorganics                  | Inorganics, Calgary, Alberta                     |
| Jing Liu           | Laboratory Analyst                        | Inorganics, Edmonton, Alberta                    |
| Joshua Stessun     | Laboratory Analyst                        | Organics, Calgary, Alberta                       |
| Leah Yee           | Lab Assistant                             | Inorganics, Edmonton, Alberta                    |
| Nik Perkio         | Senior Analyst                            | Inorganics, Waterloo, Ontario                    |
| Parth Goswami      | Team Leader - LCMS                        | LCMS, Waterloo, Ontario                          |
| Ruifang Zheng      | Analyst                                   | Inorganics, Calgary, Alberta                     |
| Sanja Risticovic   | Department Manager - LCMS                 | LCMS, Waterloo, Ontario                          |
| Sorina Motea       | Team Leader - Organics                    | Organics, Calgary, Alberta                       |
| Wanda Chapella     | Account Manager                           | External Subcontracting, Saskatoon, Saskatchewan |
| William Lake       | Laboratory Supervisor                     | Microbiology, Winnipeg, Manitoba                 |





## General Comments

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

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

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

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

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

| <i>Unit</i> | <i>Description</i>              |
|-------------|---------------------------------|
| % T/cm      | % transmittance per centimetre  |
| µg/L        | micrograms per litre            |
| µS/cm       | microsiemens per centimetre     |
| AU/cm       | absorbance units per centimetre |
| Bq/L        | becquerels per litre            |
| CU          | colour units (1 cu = 1 mg/l pt) |
| mg/L        | milligrams per litre            |
| ng/L        | nanograms per litre             |
| NTU         | nephelometric turbidity units   |
| pH units    | pH units                        |

>: greater than.

<: less than.

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

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

## Qualifiers

| <i>Qualifier</i> | <i>Description</i>                                                                                     |
|------------------|--------------------------------------------------------------------------------------------------------|
| DLM              | Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity). |



## Analytical Results

GP2501197-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Treated Water - Entering the Distribution System

Client sampling date / time: 02-Jul-2025 09:50

| Analyte                                            | CAS Number | Result   | LOR     | Unit     | Method/Lab                | Prep Date   | Analysis Date | QCLot   |
|----------------------------------------------------|------------|----------|---------|----------|---------------------------|-------------|---------------|---------|
| <b>Physical Tests</b>                              |            |          |         |          |                           |             |               |         |
| Absorbance, UV (@ 254nm)                           | ----       | 0.0150   | 0.0050  | AU/cm    | E404/EO                   | -           | 04-Jul-2025   | 2090089 |
| Colour, true                                       | ----       | <5.0     | 5.0     | CU       | E329/CG                   | 04-Jul-2025 | 04-Jul-2025   | 2089197 |
| Conductivity                                       | ----       | 264      | 2.0     | µS/cm    | E100/EO                   | 07-Jul-2025 | 07-Jul-2025   | 2092921 |
| Hardness (as CaCO <sub>3</sub> ), from total Ca/Mg | ----       | 129      | 0.50    | mg/L     | EC100A/EO                 | -           | 05-Jul-2025   | -       |
| pH                                                 | ----       | 7.58     | 0.10    | pH units | E108/EO                   | 07-Jul-2025 | 07-Jul-2025   | 2092920 |
| Solids, total dissolved [TDS]                      | ----       | 132      | 20      | mg/L     | E162/EO                   | -           | 09-Jul-2025   | 2092895 |
| Turbidity                                          | ----       | <0.10    | 0.10    | NTU      | E121/EO                   | -           | 05-Jul-2025   | 2090991 |
| Transmittance, UV (@ 254nm)                        | ----       | 96.6     | 1.0     | % T/cm   | E404/EO                   | -           | 04-Jul-2025   | 2090089 |
| <b>Anions and Nutrients</b>                        |            |          |         |          |                           |             |               |         |
| Ammonia, total (as N)                              | 7664-41-7  | <0.0050  | 0.0050  | mg/L     | E298/EO                   | 03-Jul-2025 | 05-Jul-2025   | 2087941 |
| Chloride                                           | 16887-00-6 | 12.2     | 0.50    | mg/L     | E235.Cl/EO                | 03-Jul-2025 | 03-Jul-2025   | 2086958 |
| Fluoride                                           | 16984-48-8 | 0.677    | 0.020   | mg/L     | E235.F/EO                 | 03-Jul-2025 | 03-Jul-2025   | 2086955 |
| Nitrate (as N)                                     | 14797-55-8 | <0.020   | 0.020   | mg/L     | E235.NO <sub>3</sub> /EO  | 03-Jul-2025 | 03-Jul-2025   | 2086959 |
| Nitrate + Nitrite (as N)                           | ----       | <0.0224  | 0.0224  | mg/L     | EC235.N+N/EO              | -           | 04-Jul-2025   | -       |
| Nitrite (as N)                                     | 14797-65-0 | <0.010   | 0.010   | mg/L     | E235.NO <sub>2</sub> /EO  | 03-Jul-2025 | 03-Jul-2025   | 2086956 |
| Sulfate (as SO <sub>4</sub> )                      | 14808-79-8 | 20.0     | 0.30    | mg/L     | E235.SO <sub>4</sub> /EO  | 03-Jul-2025 | 03-Jul-2025   | 2086957 |
| <b>Cyanides</b>                                    |            |          |         |          |                           |             |               |         |
| Cyanide, strong acid dissociable (Total)           | ----       | <0.0050  | 0.0050  | mg/L     | E333/WT                   | 07-Jul-2025 | 07-Jul-2025   | 2092550 |
| <b>Organic / Inorganic Carbon</b>                  |            |          |         |          |                           |             |               |         |
| Carbon, total organic [TOC]                        | ----       | 1.12     | 0.50    | mg/L     | E355-L/CG                 | 10-Jul-2025 | 10-Jul-2025   | 2099329 |
| <b>Inorganics</b>                                  |            |          |         |          |                           |             |               |         |
| Chlorine, total                                    | 7782-50-5  | 1.47     | 0.10    | mg/L     | E326-H/EO                 | -           | 03-Jul-2025   | 2088072 |
| Chlorite                                           | 14998-27-7 | <0.010   | 0.010   | mg/L     | E409.CLO <sub>2</sub> /WT | 07-Jul-2025 | 07-Jul-2025   | 2092693 |
| Chlorine, free                                     | 7782-50-5  | 1.36     | 0.10    | mg/L     | E327-H/EO                 | -           | 03-Jul-2025   | 2088075 |
| Chloramines, total (as Cl <sub>2</sub> )           | ----       | <0.20    | 0.20    | mg/L     | EC326/EO                  | -           | 03-Jul-2025   | -       |
| <b>Total Sulfides</b>                              |            |          |         |          |                           |             |               |         |
| Sulfide, total (as S)                              | 18496-25-8 | <0.0015  | 0.0015  | mg/L     | E395/CG                   | -           | 03-Jul-2025   | 2087738 |
| Sulfide, total (as H <sub>2</sub> S)               | 7783-06-4  | <0.0016  | 0.0016  | mg/L     | E395/CG                   | -           | 03-Jul-2025   | 2087738 |
| <b>Total Metals</b>                                |            |          |         |          |                           |             |               |         |
| Aluminum, total                                    | 7429-90-5  | 0.0887   | 0.0030  | mg/L     | E420/EO                   | 04-Jul-2025 | 04-Jul-2025   | 2089254 |
| Antimony, total                                    | 7440-36-0  | <0.00010 | 0.00010 | mg/L     | E420/EO                   | 04-Jul-2025 | 04-Jul-2025   | 2089254 |
| Arsenic, total                                     | 7440-38-2  | 0.00012  | 0.00010 | mg/L     | E420/EO                   | 04-Jul-2025 | 04-Jul-2025   | 2089254 |
| Barium, total                                      | 7440-39-3  | 0.0832   | 0.00010 | mg/L     | E420/EO                   | 04-Jul-2025 | 04-Jul-2025   | 2089254 |
| Boron, total                                       | 7440-42-8  | <0.010   | 0.010   | mg/L     | E420/EO                   | 04-Jul-2025 | 04-Jul-2025   | 2089254 |
| Cadmium, total                                     | 7440-43-9  | <0.0050  | 0.0050  | µg/L     | E420/EO                   | 04-Jul-2025 | 04-Jul-2025   | 2089254 |
| Calcium, total                                     | 7440-70-2  | 35.5     | 0.050   | mg/L     | E420/EO                   | 04-Jul-2025 | 04-Jul-2025   | 2089254 |
| Chromium, total                                    | 7440-47-3  | <0.00050 | 0.00050 | mg/L     | E420/EO                   | 04-Jul-2025 | 04-Jul-2025   | 2089254 |
| Copper, total                                      | 7440-50-8  | 0.00080  | 0.00050 | mg/L     | E420/EO                   | 04-Jul-2025 | 04-Jul-2025   | 2089254 |
| Iron, total                                        | 7439-89-6  | <0.010   | 0.010   | mg/L     | E420/EO                   | 04-Jul-2025 | 04-Jul-2025   | 2089254 |
| Lead, total                                        | 7439-92-1  | <0.050   | 0.050   | µg/L     | E420/EO                   | 04-Jul-2025 | 04-Jul-2025   | 2089254 |
| Magnesium, total                                   | 7439-95-4  | 9.73     | 0.0050  | mg/L     | E420/EO                   | 04-Jul-2025 | 04-Jul-2025   | 2089254 |
| Manganese, total                                   | 7439-96-5  | 0.00018  | 0.00010 | mg/L     | E420/EO                   | 04-Jul-2025 | 04-Jul-2025   | 2089254 |
| Mercury, total                                     | 7439-97-6  | <0.0050  | 0.0050  | µg/L     | E508/EO                   | 04-Jul-2025 | 04-Jul-2025   | 2089249 |
| Selenium, total                                    | 7782-49-2  | 0.556    | 0.050   | µg/L     | E420/EO                   | 04-Jul-2025 | 04-Jul-2025   | 2089254 |
| Silver, total                                      | 7440-22-4  | <0.010   | 0.010   | µg/L     | E420/EO                   | 04-Jul-2025 | 04-Jul-2025   | 2089254 |



## Analytical Results

GP2501197-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Treated Water - Entering the Distribution System

Client sampling date / time: 02-Jul-2025 09:50

| Analyte                                     | CAS Number  | Result              | LOR     | Unit | Method/Lab   | Prep Date   | Analysis Date | QCLot   |
|---------------------------------------------|-------------|---------------------|---------|------|--------------|-------------|---------------|---------|
| Total Metals                                |             |                     |         |      |              |             |               |         |
| Sodium, total                               | 7440-23-5   | 2.24                | 0.050   | mg/L | E420/EO      | 04-Jul-2025 | 04-Jul-2025   | 2089254 |
| Strontium, total                            | 7440-24-6   | 0.130               | 0.00020 | mg/L | E420/EO      | 04-Jul-2025 | 04-Jul-2025   | 2089254 |
| Uranium, total                              | 7440-61-1   | 0.032               | 0.010   | µg/L | E420/EO      | 04-Jul-2025 | 04-Jul-2025   | 2089254 |
| Zinc, total                                 | 7440-66-6   | <0.0030             | 0.0030  | mg/L | E420/EO      | 04-Jul-2025 | 04-Jul-2025   | 2089254 |
| Aggregate Organics                          |             |                     |         |      |              |             |               |         |
| Nitritotriacetic acid [NTA]                 | 139-13-9    | <0.40               | 0.40    | mg/L | E394/WT      | -           | 09-Jul-2025   | 2097309 |
| Volatile Organic Compounds                  |             |                     |         |      |              |             |               |         |
| Chlorobenzene                               | 108-90-7    | <0.50               | 0.50    | µg/L | E611F/CG     | 07-Jul-2025 | 07-Jul-2025   | 2091294 |
| Dichlorobenzene, 1,2-                       | 95-50-1     | <0.50               | 0.50    | µg/L | E611F/CG     | 07-Jul-2025 | 07-Jul-2025   | 2091294 |
| Dichlorobenzene, 1,4-                       | 106-46-7    | <0.50               | 0.50    | µg/L | E611F/CG     | 07-Jul-2025 | 07-Jul-2025   | 2091294 |
| Dioxane, 1,4-                               | 123-91-1    | <20                 | 20      | µg/L | E611I/CG     | 07-Jul-2025 | 07-Jul-2025   | 2091293 |
| Volatile Organic Compounds [Drycleaning]    |             |                     |         |      |              |             |               |         |
| Carbon tetrachloride                        | 56-23-5     | <0.20               | 0.20    | µg/L | E611F/CG     | 07-Jul-2025 | 07-Jul-2025   | 2091294 |
| Dichloroethane, 1,2-                        | 107-06-2    | <0.50               | 0.50    | µg/L | E611F/CG     | 07-Jul-2025 | 07-Jul-2025   | 2091294 |
| Dichloroethylene, 1,1-                      | 75-35-4     | <0.50               | 0.50    | µg/L | E611F/CG     | 07-Jul-2025 | 07-Jul-2025   | 2091294 |
| Dichloromethane                             | 75-09-2     | <1.0                | 1.0     | µg/L | E611F/CG     | 07-Jul-2025 | 07-Jul-2025   | 2091294 |
| Tetrachloroethylene                         | 127-18-4    | <0.50               | 0.50    | µg/L | E611F/CG     | 07-Jul-2025 | 07-Jul-2025   | 2091294 |
| Trichloroethylene                           | 79-01-6     | <0.50               | 0.50    | µg/L | E611F/CG     | 07-Jul-2025 | 07-Jul-2025   | 2091294 |
| Vinyl chloride                              | 75-01-4     | <0.50               | 0.50    | µg/L | E611F/CG     | 07-Jul-2025 | 07-Jul-2025   | 2091294 |
| Volatile Organic Compounds [Fuels]          |             |                     |         |      |              |             |               |         |
| Benzene                                     | 71-43-2     | <0.50               | 0.50    | µg/L | E611F/CG     | 07-Jul-2025 | 07-Jul-2025   | 2091294 |
| Ethylbenzene                                | 100-41-4    | <0.50               | 0.50    | µg/L | E611F/CG     | 07-Jul-2025 | 07-Jul-2025   | 2091294 |
| Toluene                                     | 108-88-3    | <0.50               | 0.50    | µg/L | E611F/CG     | 07-Jul-2025 | 07-Jul-2025   | 2091294 |
| Xylene, m+p-                                | 179601-23-1 | <0.40               | 0.40    | µg/L | E611F/CG     | 07-Jul-2025 | 07-Jul-2025   | 2091294 |
| Xylene, o-                                  | 95-47-6     | <0.30               | 0.30    | µg/L | E611F/CG     | 07-Jul-2025 | 07-Jul-2025   | 2091294 |
| Xylenes, total                              | 1330-20-7   | <0.50               | 0.50    | µg/L | E611F/CG     | 07-Jul-2025 | 07-Jul-2025   | 2091294 |
| Volatile Organic Compounds Surrogates       |             |                     |         |      |              |             |               |         |
| Bromofluorobenzene, 4-                      | 460-00-4    | 77.7                | 1.0     | %    | E611F/CG     | 07-Jul-2025 | 07-Jul-2025   | 2091294 |
| Bromofluorobenzene, 4-                      | 460-00-4    | 77.7                | 1.0     | %    | E611I/CG     | 07-Jul-2025 | 07-Jul-2025   | 2091293 |
| Difluorobenzene, 1,4-                       | 540-36-3    | 93.5                | 1.0     | %    | E611F/CG     | 07-Jul-2025 | 07-Jul-2025   | 2091294 |
| Difluorobenzene, 1,4-                       | 540-36-3    | 93.5                | 1.0     | %    | E611I/CG     | 07-Jul-2025 | 07-Jul-2025   | 2091293 |
| Polycyclic Aromatic Hydrocarbons            |             |                     |         |      |              |             |               |         |
| Benzo(a)pyrene                              | 50-32-8     | <0.0050             | 0.0050  | µg/L | E641A/CG     | 07-Jul-2025 | 07-Jul-2025   | 2093299 |
| Polycyclic Aromatic Hydrocarbons Surrogates |             |                     |         |      |              |             |               |         |
| Chrysene-d12                                | 1719-03-5   | 112                 | 0.1     | %    | E641A/CG     | 07-Jul-2025 | 07-Jul-2025   | 2093299 |
| Naphthalene-d8                              | 1146-65-2   | 114                 | 0.1     | %    | E641A/CG     | 07-Jul-2025 | 07-Jul-2025   | 2093299 |
| Phenanthrene-d10                            | 1517-22-2   | 116                 | 0.1     | %    | E641A/CG     | 07-Jul-2025 | 07-Jul-2025   | 2093299 |
| Disinfectant By-Products                    |             |                     |         |      |              |             |               |         |
| Bromate                                     | 15541-45-4  | <0.00030            | 0.00030 | mg/L | E722A/WT     | 07-Jul-2025 | 07-Jul-2025   | 2092350 |
| Chlorate                                    | 14866-68-3  | <0.010              | 0.010   | mg/L | E409.CLO3/WT | 07-Jul-2025 | 07-Jul-2025   | 2092692 |
| Semi-Volatile Organics Surrogates           |             |                     |         |      |              |             |               |         |
| Fluorobiphenyl, 2-                          | 321-60-8    | 87.0                | 1.0     | %    | E625/WT      | 07-Jul-2025 | 07-Jul-2025   | 2092247 |
| Nitrobenzene-d5                             | 4165-60-0   | 81.3                | 1.0     | %    | E625/WT      | 07-Jul-2025 | 07-Jul-2025   | 2092247 |
| Terphenyl-d14, p-                           | 1718-51-0   | 84.5                | 1.0     | %    | E625/WT      | 07-Jul-2025 | 07-Jul-2025   | 2092247 |
| Per- and Polyfluoroalkyl Substances (PFAS)  |             |                     |         |      |              |             |               |         |
| Perfluorobutanoic acid [PFBA]               | 375-22-4    | <5.0 <sup>DLM</sup> | 5.0     | ng/L | E745DW/WT    | 09-Jul-2025 | 09-Jul-2025   | 2096334 |



## Analytical Results

GP2501197-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Treated Water - Entering the Distribution System

Client sampling date / time: 02-Jul-2025 09:50

| Analyte                                                             | CAS Number  | Result | LOR  | Unit | Method/Lab | Prep Date   | Analysis Date | QCLot   |
|---------------------------------------------------------------------|-------------|--------|------|------|------------|-------------|---------------|---------|
| Per- and Polyfluoroalkyl Substances (PFAS)                          |             |        |      |      |            |             |               |         |
| Perfluoropentanoic acid [PFPeA]                                     | 2706-90-3   | <2.0   | 2.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorohexanoic acid [PFHxA]                                      | 307-24-4    | <0.40  | 0.40 | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluoroheptanoic acid [PFHpA]                                     | 375-85-9    | <1.0   | 1.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorooctanoic acid [PFOA]                                       | 335-67-1    | <1.0   | 1.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorononanoic acid [PFNA]                                       | 375-95-1    | <2.0   | 2.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorodecanoic acid [PFDA]                                       | 335-76-2    | <2.0   | 2.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluoroundecanoic acid [PFUnA]                                    | 2058-94-8   | <1.0   | 1.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorododecanoic acid [PFDoA]                                    | 307-55-1    | <2.0   | 2.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorotridecanoic acid [PFTrDA]                                  | 72629-94-8  | <2.0   | 2.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorotetradecanoic acid [PFTeDA]                                | 376-06-7    | <1.0   | 1.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorobutanesulfonic acid [PFBS]                                 | 375-73-5    | <1.0   | 1.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluoropentanesulfonic acid [PFPeS]                               | 2706-91-4   | <2.0   | 2.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorohexanesulfonic acid [PFHxS]                                | 355-46-4    | <2.0   | 2.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluoroheptanesulfonic acid [PFHpS]                               | 375-92-8    | <2.0   | 2.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorooctanesulfonic acid [PFOS]                                 | 1763-23-1   | <2.0   | 2.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorononanesulfonic acid [PFNS]                                 | 68259-12-1  | <2.0   | 2.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorodecanesulfonic acid [PFDS]                                 | 335-77-3    | <2.0   | 2.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorododecanesulfonic acid [PFDoS]                              | 79780-39-5  | <2.0   | 2.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Fluorotelomer sulfonic acid, 4:2 [4:2 FTS]                          | 757124-72-4 | <1.0   | 1.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Fluorotelomer sulfonic acid, 6:2 [6:2 FTS]                          | 27619-97-2  | <3.0   | 3.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Fluorotelomer sulfonic acid, 8:2 [8:2 FTS]                          | 39108-34-4  | <1.0   | 1.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorooctanesulfonamide [PFOSA]                                  | 754-91-6    | <2.0   | 2.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Methyl perfluorooctanesulfonamide, N-[NMeFOSA]                      | 31506-32-8  | <2.0   | 2.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Ethyl perfluorooctanesulfonamide, N-[NEtFOSA]                       | 4151-50-2   | <2.0   | 2.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Methyl perfluorooctanesulfonamidoacetic acid, N-[NMeFOSAA]          | 2355-31-9   | <4.0   | 4.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Ethyl perfluorooctanesulfonamidoacetic acid, N-[NEtFOSAA]           | 2991-50-6   | <4.0   | 4.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Methyl perfluorooctanesulfonamidoethanol, N-[NMeFOSE]               | 24448-09-7  | <2.0   | 2.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Ethyl perfluorooctanesulfonamidoethanol, N-[NEtFOSE]                | 1691-99-2   | <2.0   | 2.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Hexafluoropropylene oxide dimer acid [HFPO-DA]                      | 13252-13-6  | <4.0   | 4.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorononanoic acid, 4,8-dioxo-3H- [ADONA]                       | 919005-14-4 | <0.40  | 0.40 | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluoro-3-methoxypropanoic acid [PFMPA]                           | 377-73-1    | <0.40  | 0.40 | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluoro-4-methoxybutanoic acid [PFMBA]                            | 863090-89-5 | <0.40  | 0.40 | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Nonafluoro-3,6-dioxoheptanoic acid [NFDHA]                          | 151772-58-6 | <4.0   | 4.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid, 9- [9Cl-PF3ONS]   | 756426-58-1 | <0.40  | 0.40 | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Chloroicoisafuoro-3-oxaundecane-1-sulfonic acid, 11- [11Cl-PF3OUdS] | 763051-92-9 | <0.40  | 0.40 | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluoro(2-ethoxyethane)sulfonic acid [PFEEESA]                    | 113507-82-7 | <0.40  | 0.40 | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Fluorotelomer carboxylic acid, 3:3 [3:3 FTCA]                       | 356-02-5    | <10    | 10   | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Fluorotelomer carboxylic acid, 5:3 [5:3 FTCA]                       | 914637-49-3 | <4.0   | 4.0  | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Fluorotelomer carboxylic acid, 7:3 [7:3 FTCA]                       | 812-70-4    | <4     | 4    | ng/L | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| PFAS, total [EPA 533 / Health Canada list]                          | n/a         | <10    | 10   | ng/L | EC745DW/WT | -           | 14-Jul-2025   | -       |



## Analytical Results

GP2501197-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Treated Water - Entering the Distribution System

Client sampling date / time: 02-Jul-2025 09:50

| Analyte                                                          | CAS Number | Result  | LOR    | Unit | Method/Lab | Prep Date   | Analysis Date | QCLot   |
|------------------------------------------------------------------|------------|---------|--------|------|------------|-------------|---------------|---------|
| Chlorinated Phenolics                                            |            |         |        |      |            |             |               |         |
| Dichlorophenol, 2,4-                                             | 120-83-2   | <0.20   | 0.20   | µg/L | E625/WT    | 07-Jul-2025 | 07-Jul-2025   | 2092247 |
| Pentachlorophenol [PCP]                                          | 87-86-5    | <0.50   | 0.50   | µg/L | E625/WT    | 07-Jul-2025 | 07-Jul-2025   | 2092247 |
| Tetrachlorophenol, 2,3,4,6-                                      | 58-90-2    | <0.50   | 0.50   | µg/L | E625/WT    | 07-Jul-2025 | 07-Jul-2025   | 2092247 |
| Trichlorophenol, 2,4,6-                                          | 88-06-2    | <0.20   | 0.20   | µg/L | E625/WT    | 07-Jul-2025 | 07-Jul-2025   | 2092247 |
| Phenolics Surrogates                                             |            |         |        |      |            |             |               |         |
| Tribromophenol, 2,4,6-                                           | 118-79-6   | 86.9    | 0.50   | %    | E625/WT    | 07-Jul-2025 | 07-Jul-2025   | 2092247 |
| Extracted Internal Standards (EIS) [PFAS]                        |            |         |        |      |            |             |               |         |
| Ethyl perfluorooctanesulfonamide, n-D5 [D5-NEtFOSA]              | n/a        | 53.9    | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Ethyl perfluorooctanesulfonamidoacetic acid, n-D5 [D5-NEtFOSAA]  | n/a        | 83.1    | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Ethyl perfluorooctanesulfonamidoethanol, n-D9 [D9-NEtFOSE]       | n/a        | 74.4    | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Fluorotelomer sulfonic acid, 4:2-13C2 [13C2-4:2 FTS]             | n/a        | 153     | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Fluorotelomer sulfonic acid, 6:2-13C2 [13C2-6:2 FTS]             | n/a        | 116     | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Fluorotelomer sulfonic acid, 8:2-13C2 [13C2-8:2 FTS]             | n/a        | 92.6    | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Hexafluoropropylene oxide dimer acid-13C3 [13C3-HFPO-DA]         | n/a        | 91.5    | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Methyl perfluorooctanesulfonamide, n-D3 [D3-NMeFOSA]             | n/a        | 56.1    | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Methyl perfluorooctanesulfonamidoacetic acid, n-D3 [D3-NMeFOSAA] | n/a        | 83.8    | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Methyl perfluorooctanesulfonamidoethanol, n-D7 [D7-NMeFOSE]      | n/a        | 73.4    | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorobutanesulfonic acid-13C3 [13C3-PFBS]                    | n/a        | 82.5    | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorobutanoic acid-13C4 [13C4-PFBA]                          | n/a        | 97.4    | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorodecanoic acid-13C6 [13C6-PFDA]                          | n/a        | 89.3    | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorododecanoic acid-13C2 [13C2-PFDoA]                       | n/a        | 92.8    | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluoroheptanoic acid-13C4 [13C4-PFHpA]                        | n/a        | 97.4    | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorohexane sulfonic acid-13C3 [13C3-PFHxS]                  | n/a        | 108     | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorohexanoic acid-13C5 [13C5-PFHxA]                         | n/a        | 93.7    | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorononanoic acid-13C9 [13C9-PFNA]                          | n/a        | 91.7    | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorooctanesulfonamide-13C8 [13C8-PFOSA]                     | n/a        | 85.0    | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorooctanesulfonic acid-13C8 [13C8-PFOS]                    | n/a        | 83.1    | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorooctanoic acid-13C8 [13C8-PFOA]                          | n/a        | 98.3    | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluoropentanoic acid-13C5 [13C5-PFPeA]                        | n/a        | 92.1    | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluorotetradecanoic acid-13C2 [13C2-PFTeDA]                   | n/a        | 88.2    | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Perfluoroundecanoic acid-13C7 [13C7-PFUnA]                       | n/a        | 87.5    | 1.0    | %    | E745DW/WT  | 09-Jul-2025 | 09-Jul-2025   | 2096334 |
| Organochlorine Pesticides                                        |            |         |        |      |            |             |               |         |
| Methoxychlor                                                     | 72-43-5    | <0.0080 | 0.0080 | µg/L | E660F/WT   | 07-Jul-2025 | 09-Jul-2025   | 2093165 |
| Organochlorine Pesticides Surrogates                             |            |         |        |      |            |             |               |         |
| Decachlorobiphenyl                                               | 2051-24-3  | 102     | 0.10   | %    | E660F/WT   | 07-Jul-2025 | 09-Jul-2025   | 2093165 |
| Tetrachloro-m-xylene                                             | 877-09-8   | 85.9    | 0.10   | %    | E660F/WT   | 07-Jul-2025 | 09-Jul-2025   | 2093165 |
| Herbicides                                                       |            |         |        |      |            |             |               |         |
| Acetic acid, 2-methyl-4-chlorophenoxy- [MCPA]                    | 94-74-6    | <0.050  | 0.050  | µg/L | E706A/WT   | 08-Jul-2025 | 16-Jul-2025   | 2094138 |



## Analytical Results

GP2501197-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Treated Water - Entering the Distribution System

Client sampling date / time: 02-Jul-2025 09:50

| Analyte                                  | CAS Number  | Result       | LOR   | Unit | Method/Lab    | Prep Date   | Analysis Date | QC/Lot  |
|------------------------------------------|-------------|--------------|-------|------|---------------|-------------|---------------|---------|
| <b>Herbicides</b>                        |             |              |       |      |               |             |               |         |
| Atrazine                                 | 1912-24-9   | <0.050       | 0.050 | µg/L | E755/WT       | 07-Jul-2025 | 07-Jul-2025   | 2092645 |
| Atrazine + N-dealkylated metabolites     | ----        | <0.10        | 0.1   | µg/L | E755/WT       | 07-Jul-2025 | 07-Jul-2025   | 2092645 |
| Atrazine-desethyl                        | 6190-65-4   | <0.025       | 0.025 | µg/L | E755/WT       | 07-Jul-2025 | 07-Jul-2025   | 2092645 |
| Bromoxynil                               | 1689-84-5   | <0.050       | 0.050 | µg/L | E706A/WT      | 08-Jul-2025 | 16-Jul-2025   | 2094138 |
| Dicamba                                  | 1918-00-9   | <0.10        | 0.10  | µg/L | E706A/WT      | 08-Jul-2025 | 16-Jul-2025   | 2094138 |
| Dichlorophenoxyacetic acid, 2,4- [2,4-D] | 94-75-7     | <0.050       | 0.050 | µg/L | E706A/WT      | 08-Jul-2025 | 16-Jul-2025   | 2094138 |
| Diquat (ion)                             | 2764-72-9   | <1.0         | 1.0   | µg/L | E723A/WT      | 07-Jul-2025 | 07-Jul-2025   | 2092375 |
| Diuron                                   | 330-54-1    | <0.050       | 0.050 | µg/L | E755/WT       | 07-Jul-2025 | 07-Jul-2025   | 2092645 |
| Glyphosate                               | 1071-83-6   | <1.0         | 1.0   | µg/L | E716A/WT      | 07-Jul-2025 | 08-Jul-2025   | 2092343 |
| Metolachlor                              | 51218-45-2  | <0.025       | 0.025 | µg/L | E755/WT       | 07-Jul-2025 | 07-Jul-2025   | 2092645 |
| Metribuzin                               | 21087-64-9  | <0.10        | 0.10  | µg/L | E755/WT       | 07-Jul-2025 | 07-Jul-2025   | 2092645 |
| Picloram                                 | 1918-02-1   | <0.10        | 0.10  | µg/L | E706A/WT      | 08-Jul-2025 | 16-Jul-2025   | 2094138 |
| Simazine                                 | 122-34-9    | <0.10        | 0.10  | µg/L | E755/WT       | 07-Jul-2025 | 07-Jul-2025   | 2092645 |
| Trifluralin                              | 1582-09-8   | <0.10        | 0.10  | µg/L | E756/WT       | 09-Jul-2025 | 09-Jul-2025   | 2096620 |
| <b>Herbicides Surrogates</b>             |             |              |       |      |               |             |               |         |
| Dichlorophenylacetic acid, 2,4-          | 19719-28-9  | 85.9         | 1.0   | %    | E706A/WT      | 08-Jul-2025 | 16-Jul-2025   | 2094138 |
| <b>Insecticides</b>                      |             |              |       |      |               |             |               |         |
| Carbaryl                                 | 63-25-2     | <0.050       | 0.050 | µg/L | E755/WT       | 07-Jul-2025 | 07-Jul-2025   | 2092645 |
| Chlorpyrifos                             | 2921-88-2   | <0.10        | 0.10  | µg/L | E756/WT       | 09-Jul-2025 | 09-Jul-2025   | 2096620 |
| Diazinon                                 | 333-41-5    | <0.025       | 0.025 | µg/L | E755/WT       | 07-Jul-2025 | 07-Jul-2025   | 2092645 |
| Dimethoate                               | 60-51-5     | <0.050       | 0.050 | µg/L | E755/WT       | 07-Jul-2025 | 07-Jul-2025   | 2092645 |
| Malathion                                | 121-75-5    | <0.025       | 0.025 | µg/L | E755/WT       | 07-Jul-2025 | 07-Jul-2025   | 2092645 |
| Omethoate                                | 1113-02-6   | <0.050       | 0.050 | µg/L | E755/WT       | 07-Jul-2025 | 07-Jul-2025   | 2092645 |
| Phorate                                  | 298-02-2    | <0.25        | 0.25  | µg/L | E755/WT       | 07-Jul-2025 | 07-Jul-2025   | 2092645 |
| Omethoate (as dimethoate)                | n/a         | <0.16        | 0.16  | µg/L | E755/WT       | 07-Jul-2025 | 07-Jul-2025   | 2092645 |
| <b>Nitrosamines</b>                      |             |              |       |      |               |             |               |         |
| Nitrosodimethylamine, N- [NDMA]          | 62-75-9     | <0.034       | 0.034 | µg/L | E725A/WT      | 09-Jul-2025 | 09-Jul-2025   | 2096346 |
| <b>Nitrosamines Surrogates</b>           |             |              |       |      |               |             |               |         |
| Nitrosodimethylamine-d6, N-              | 17829-05-9  | 107          | 0.10  | %    | E725A/WT      | 09-Jul-2025 | 09-Jul-2025   | 2096346 |
| <b>Organic Parameters</b>                |             |              |       |      |               |             |               |         |
| Microcystin                              | 101043-37-2 | <0.15        | 0.15  | µg/L | E576/WP       | -           | 04-Jul-2025   | 2089134 |
| <b>Radiological Parameters</b>           |             |              |       |      |               |             |               |         |
| Cesium-137                               | ----        | See Attached | -     | Bq/L | I131+Cs137/2I | -           | 06-Aug-2025   | -       |
| Iodine-131                               | ----        | See Attached | -     | Bq/L | I131+Cs137/2I | -           | 06-Aug-2025   | -       |
| Lead-210                                 | 14255-04-0  | See Attached | 0.037 | Bq/L | Pb-210/2I     | -           | 06-Aug-2025   | -       |
| Radium-226                               | 13982-63-3  | See Attached | 0.005 | Bq/L | Ra-226/2I     | -           | 06-Aug-2025   | -       |
| Radon-222                                | 14859-67-7  | See Attached | 2     | Bq/L | Rn222/2I      | -           | 06-Aug-2025   | -       |
| Strontium-90                             | ----        | See Attached | -     | Bq/L | Sr90/2I       | -           | 06-Aug-2025   | -       |
| Tritium                                  | 10028-17-8  | See Attached | -     | Bq/L | TRITIUM/2I    | -           | 06-Aug-2025   | -       |

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





## QUALITY CONTROL INTERPRETIVE REPORT

|                         |                                                                              |                       |                                                             |
|-------------------------|------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------|
| Work Order              | : GP2501197                                                                  | Page                  | : 1 of 21                                                   |
| Client                  | : Aquatera Utilities Inc.                                                    | Laboratory            | : ALS Environmental - Grande Prairie                        |
| Contact                 | : Tamara Wuttunee-Cambell                                                    | Account Manager       | : Wanda Chapella                                            |
| Address                 | : Water Treatment Plant 11101 104 Avenue<br>Grande Prairie AB Canada T8V 8H6 | Address               | : 9505 111 Street<br>Grande Prairie, Alberta Canada T8V 5W1 |
| Telephone               | : 780 532 3996                                                               | Telephone             | : 780-539-5196                                              |
| Project                 | : WT-GP                                                                      | Date Samples Received | : 02-Jul-2025 12:00                                         |
| PO                      | : 34893                                                                      | Issue Date            | : 06-Aug-2025 12:00                                         |
| C-O-C number            | : ----                                                                       |                       |                                                             |
| Sampler                 | : Mike Boyce                                                                 |                       |                                                             |
| Site                    | : Aquatera                                                                   |                       |                                                             |
| Quote number            | : GP2021AQUI1003                                                             |                       |                                                             |
| No. of samples received | : 1                                                                          |                       |                                                             |
| No. of samples analysed | : 1                                                                          |                       |                                                             |

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

### Key

**Anonymous:** Refers to samples which are not part of this work order, but which formed part of the QC process lot.

**CAS Number:** Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

**DQO:** Data Quality Objective.

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

**RPD:** Relative Percent Difference.

### Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

### Summary of Outliers

#### Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- Matrix Spike outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

#### Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.



### ***Outliers : Analysis Holding Time Compliance (Breaches)***

- Analysis Holding Time Outliers exist - please see following pages for full details.

### ***Outliers : Frequency of Quality Control Samples***

- No Quality Control Sample Frequency Outliers occur.



## Outliers : Quality Control Samples

*Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes*

Matrix: **Water**

| Analyte Group                              | Laboratory sample ID | Client/Ref Sample ID | Analyte                                                              | CAS Number  | Method | Result              | Limits    | Comment                                            |
|--------------------------------------------|----------------------|----------------------|----------------------------------------------------------------------|-------------|--------|---------------------|-----------|----------------------------------------------------|
| <b>Matrix Spike (MS) Recoveries</b>        |                      |                      |                                                                      |             |        |                     |           |                                                    |
| Per- and Polyfluoroalkyl Substances (PFAS) | Anonymous            | Anonymous            | Nonafluoro-3,6-dioxaheptanoic acid [NFDHA]                           | 151772-58-6 | E745DW | 58.4 % <sup>K</sup> | 70.0-130% | Recovery less than lower data quality objective    |
| Per- and Polyfluoroalkyl Substances (PFAS) | Anonymous            | Anonymous            | Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid, 9- [9Cl-PF3ONS]    | 756426-58-1 | E745DW | 151 % <sup>K</sup>  | 70.0-130% | Recovery greater than upper data quality objective |
| Per- and Polyfluoroalkyl Substances (PFAS) | Anonymous            | Anonymous            | Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid, 11- [11Cl-PF3OUdS] | 763051-92-9 | E745DW | 133 % <sup>K</sup>  | 70.0-130% | Recovery greater than upper data quality objective |
| Per- and Polyfluoroalkyl Substances (PFAS) | Anonymous            | Anonymous            | Fluorotelomer carboxylic acid, 5:3 [5:3 FTCA]                        | 914637-49-3 | E745DW | 154 % <sup>K</sup>  | 70.0-130% | Recovery greater than upper data quality objective |

## Result Qualifiers

| Qualifier | Description                                                         |
|-----------|---------------------------------------------------------------------|
| K         | Matrix Spike recovery outside ALS DQO due to sample matrix effects. |



## Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s)                                                           | Method   | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |        |      |
|--------------------------------------------------------------------------------------------------------------------------------|----------|---------------|--------------------------|---------------|--------|------|---------------|---------------|--------|------|
|                                                                                                                                |          |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |        | Eval |
|                                                                                                                                |          |               |                          | Rec           | Actual |      |               | Rec           | Actual |      |
| Aggregate Organics : Microcystin by ELISA (Extraction by Sonication)                                                           |          |               |                          |               |        |      |               |               |        |      |
| Amber glass vial<br>Treated Water - Entering the Distribution System                                                           | E576     | 02-Jul-2025   | ----                     | ----          | ----   |      | 04-Jul-2025   | 14 days       | 2 days | ✓    |
| Aggregate Organics : Nitrilotriacetic Acid (NTA) in Water                                                                      |          |               |                          |               |        |      |               |               |        |      |
| Amber glass/Teflon lined septa cap (sodium bisulfate + sodium thiosulfate)<br>Treated Water - Entering the Distribution System | E394     | 02-Jul-2025   | ----                     | ----          | ----   |      | 09-Jul-2025   | 14 days       | 7 days | ✓    |
| Anions and Nutrients : Ammonia by Fluorescence                                                                                 |          |               |                          |               |        |      |               |               |        |      |
| Amber glass total (sulfuric acid)<br>Treated Water - Entering the Distribution System                                          | E298     | 02-Jul-2025   | 03-Jul-2025              | 28 days       | 1 days | ✓    | 05-Jul-2025   | 28 days       | 1 days | ✓    |
| Anions and Nutrients : Chloride in Water by IC                                                                                 |          |               |                          |               |        |      |               |               |        |      |
| HDPE<br>Treated Water - Entering the Distribution System                                                                       | E235.Cl  | 02-Jul-2025   | 03-Jul-2025              | 28 days       | 1 days | ✓    | 03-Jul-2025   | 28 days       | 1 days | ✓    |
| Anions and Nutrients : Fluoride in Water by IC                                                                                 |          |               |                          |               |        |      |               |               |        |      |
| HDPE<br>Treated Water - Entering the Distribution System                                                                       | E235.F   | 02-Jul-2025   | 03-Jul-2025              | 28 days       | 1 days | ✓    | 03-Jul-2025   | 28 days       | 1 days | ✓    |
| Anions and Nutrients : Nitrate in Water by IC                                                                                  |          |               |                          |               |        |      |               |               |        |      |
| HDPE<br>Treated Water - Entering the Distribution System                                                                       | E235.NO3 | 02-Jul-2025   | 03-Jul-2025              | 3 days        | 1 days | ✓    | 03-Jul-2025   | 3 days        | 1 days | ✓    |
| Anions and Nutrients : Nitrite in Water by IC                                                                                  |          |               |                          |               |        |      |               |               |        |      |
| HDPE<br>Treated Water - Entering the Distribution System                                                                       | E235.NO2 | 02-Jul-2025   | 03-Jul-2025              | 3 days        | 1 days | ✓    | 03-Jul-2025   | 3 days        | 1 days | ✓    |



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s)                                                | Method    | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |        |      |
|---------------------------------------------------------------------------------------------------------------------|-----------|---------------|--------------------------|---------------|--------|------|---------------|---------------|--------|------|
|                                                                                                                     |           |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |        | Eval |
|                                                                                                                     |           |               |                          | Rec           | Actual |      |               | Rec           | Actual |      |
| Anions and Nutrients : Sulfate in Water by IC                                                                       |           |               |                          |               |        |      |               |               |        |      |
| HDPE<br>Treated Water - Entering the Distribution System                                                            | E235.SO4  | 02-Jul-2025   | 03-Jul-2025              | 28 days       | 1 days | ✓    | 03-Jul-2025   | 28 days       | 1 days | ✓    |
| Chlorinated Phenolics : BNA (Extended List) by GC-MS-MS                                                             |           |               |                          |               |        |      |               |               |        |      |
| Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate)<br>Treated Water - Entering the Distribution System | E625      | 02-Jul-2025   | 07-Jul-2025              | 7 days        | 5 days | ✓    | 07-Jul-2025   | 7 days        | 5 days | ✓    |
| Cyanides : Total Cyanide                                                                                            |           |               |                          |               |        |      |               |               |        |      |
| Opaque HDPE - total (sodium hydroxide)<br>Treated Water - Entering the Distribution System                          | E333      | 02-Jul-2025   | 07-Jul-2025              | 14 days       | 5 days | ✓    | 07-Jul-2025   | 14 days       | 5 days | ✓    |
| Disinfectant By-Products : Bromate and Perchlorate in Water by LC-MS-MS                                             |           |               |                          |               |        |      |               |               |        |      |
| Opaque HDPE (EDA)<br>Treated Water - Entering the Distribution System                                               | E722A     | 02-Jul-2025   | 07-Jul-2025              | 28 days       | 5 days | ✓    | 07-Jul-2025   | 28 days       | 0 days | ✓    |
| Disinfectant By-Products : Chlorate (CLO3) in Waters by Ion Chromatography                                          |           |               |                          |               |        |      |               |               |        |      |
| Opaque HDPE (EDA)<br>Treated Water - Entering the Distribution System                                               | E409.CLO3 | 02-Jul-2025   | 07-Jul-2025              | 28 days       | 5 days | ✓    | 07-Jul-2025   | 28 days       | 5 days | ✓    |
| Disinfectant By-Products : Chlorite (CLO2) in Waters by Ion Chromatography                                          |           |               |                          |               |        |      |               |               |        |      |
| Opaque HDPE (EDA)<br>Treated Water - Entering the Distribution System                                               | E409.CLO2 | 02-Jul-2025   | 07-Jul-2025              | 14 days       | 5 days | ✓    | 07-Jul-2025   | 14 days       | 5 days | ✓    |
| Herbicides : Chlorpyrifos, methyl and ethyl Parathion, Ethalfluralin and Trifluralin in Water by LC-MS-MS           |           |               |                          |               |        |      |               |               |        |      |
| Amber glass/Teflon lined septa cap (sodium thiosulfate)<br>Treated Water - Entering the Distribution System         | E756      | 02-Jul-2025   | 09-Jul-2025              | 7 days        | 7 days | ✓    | 09-Jul-2025   | 30 days       | 0 days | ✓    |
| Herbicides : Diquat and Paraquat in Water by LC-MS-MS                                                               |           |               |                          |               |        |      |               |               |        |      |
| HDPE (sodium thiosulfate) - LCMS<br>Treated Water - Entering the Distribution System                                | E723A     | 02-Jul-2025   | 07-Jul-2025              | 7 days        | 5 days | ✓    | 07-Jul-2025   | 21 days       | 0 days | ✓    |
| Herbicides : Glyphosate and AMPA in Water                                                                           |           |               |                          |               |        |      |               |               |        |      |
| HDPE (sodium thiosulfate) - LCMS<br>Treated Water - Entering the Distribution System                                | E716A     | 02-Jul-2025   | 07-Jul-2025              | 14 days       | 5 days | ✓    | 08-Jul-2025   | 40 days       | 1 days | ✓    |



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method                                                                                  | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |        |              |
|--------------------------------------------------------------------------------------------------------------------|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|--------|--------------|
|                                                                                                                    |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |        | Eval         |
|                                                                                                                    |        |               |                          | Rec           | Actual |      |               | Rec           | Actual |              |
| Herbicides : Pesticides in Water by LC-MS-MS (Routine Level)                                                       |        |               |                          |               |        |      |               |               |        |              |
| Amber glass/Teflon lined septa cap (sodium thiosulfate)<br>Treated Water - Entering the Distribution System        | E755   | 02-Jul-2025   | 07-Jul-2025              | 7 days        | 5 days | ✓    | 07-Jul-2025   | 30 days       | 0 days | ✓            |
| Herbicides : Phenoxy Herbicides and other Herbicides/Pesticides in Water by LC-MS-MS                               |        |               |                          |               |        |      |               |               |        |              |
| Amber glass/Teflon lined septa cap (sodium thiosulfate) - LCMS<br>Treated Water - Entering the Distribution System | E706A  | 02-Jul-2025   | 08-Jul-2025              | 7 days        | 6 days | ✓    | 16-Jul-2025   | 7 days        | 8 days | ✗<br>EHT     |
| Inorganics : Free Chlorine (Residual) by DPD Colourimetry                                                          |        |               |                          |               |        |      |               |               |        |              |
| HDPE<br>Treated Water - Entering the Distribution System                                                           | E327-H | 02-Jul-2025   | ----                     | ----          | ----   |      | 03-Jul-2025   | 0.25 hrs      | 29 hrs | ✗<br>EHTR-FM |
| Inorganics : Total Chlorine (Residual) by DPD Colourimetry                                                         |        |               |                          |               |        |      |               |               |        |              |
| HDPE<br>Treated Water - Entering the Distribution System                                                           | E326-H | 02-Jul-2025   | ----                     | ----          | ----   |      | 03-Jul-2025   | 0.25 hrs      | 29 hrs | ✗<br>EHTR-FM |
| Insecticides : Chlorpyrifos, methyl and ethyl Parathion, Ethalfuralin and Trifluralin in Water by LC-MS-MS         |        |               |                          |               |        |      |               |               |        |              |
| Amber glass/Teflon lined septa cap (sodium thiosulfate)<br>Treated Water - Entering the Distribution System        | E756   | 02-Jul-2025   | 09-Jul-2025              | 7 days        | 7 days | ✓    | 09-Jul-2025   | 30 days       | 0 days | ✓            |
| Insecticides : Pesticides in Water by LC-MS-MS (Routine Level)                                                     |        |               |                          |               |        |      |               |               |        |              |
| Amber glass/Teflon lined septa cap (sodium thiosulfate)<br>Treated Water - Entering the Distribution System        | E755   | 02-Jul-2025   | 07-Jul-2025              | 7 days        | 5 days | ✓    | 07-Jul-2025   | 30 days       | 0 days | ✓            |
| Nitrosamines : Nitrosamines by LC-MS-MS by Direct Injection (Routine Levels)                                       |        |               |                          |               |        |      |               |               |        |              |
| Amber glass/Teflon lined cap (sodium thiosulfate) - LCMS<br>Treated Water - Entering the Distribution System       | E725A  | 02-Jul-2025   | 09-Jul-2025              | 28 days       | 7 days | ✓    | 09-Jul-2025   | 28 days       | 0 days | ✓            |
| Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)                        |        |               |                          |               |        |      |               |               |        |              |
| Amber glass total (sulfuric acid)<br>Treated Water - Entering the Distribution System                              | E355-L | 02-Jul-2025   | 10-Jul-2025              | 28 days       | 8 days | ✓    | 10-Jul-2025   | 28 days       | 8 days | ✓            |
| Organochlorine Pesticides : OCP Analysis by GC-MS-MS                                                               |        |               |                          |               |        |      |               |               |        |              |
| Amber glass/Teflon lined septa cap - unpreserved [CCME]<br>Treated Water - Entering the Distribution System        | E660F  | 02-Jul-2025   | 07-Jul-2025              | 7 days        | 5 days | ✓    | 09-Jul-2025   | 40 days       | 2 days | ✓            |



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s)                                | Method     | Sampling Date | Extraction / Preparation |               |         |              | Analysis      |               |         |              |
|-----------------------------------------------------------------------------------------------------|------------|---------------|--------------------------|---------------|---------|--------------|---------------|---------------|---------|--------------|
|                                                                                                     |            |               | Preparation Date         | Holding Times |         | Eval         | Analysis Date | Holding Times |         | Eval         |
|                                                                                                     |            |               |                          | Rec           | Actual  |              |               | Rec           | Actual  |              |
| Per- and Polyfluoroalkyl Substances (PFAS) : PFAS in Drinking Water by LC-MS/MS                     |            |               |                          |               |         |              |               |               |         |              |
| HDPE - PFAS (sodium thiosulfate) - LCMS<br>Treated Water - Entering the Distribution System         | E745DW     | 02-Jul-2025   | 09-Jul-2025              | 14 days       | 7 days  | ✓            | 09-Jul-2025   | 28 days       | 0 days  | ✓            |
| Physical Tests : Colour (True) by Spectrometer (5 CU)                                               |            |               |                          |               |         |              |               |               |         |              |
| HDPE<br>Treated Water - Entering the Distribution System                                            | E329       | 02-Jul-2025   | 04-Jul-2025              | 3 days        | 2 days  | ✓            | 04-Jul-2025   | 3 days        | 2 days  | ✓            |
| Physical Tests : Conductivity in Water                                                              |            |               |                          |               |         |              |               |               |         |              |
| HDPE<br>Treated Water - Entering the Distribution System                                            | E100       | 02-Jul-2025   | 07-Jul-2025              | 28 days       | 5 days  | ✓            | 07-Jul-2025   | 28 days       | 5 days  | ✓            |
| Physical Tests : pH by Meter                                                                        |            |               |                          |               |         |              |               |               |         |              |
| HDPE<br>Treated Water - Entering the Distribution System                                            | E108       | 02-Jul-2025   | 07-Jul-2025              | 0.25 hrs      | 122 hrs | ✖<br>EHTR-FM | 07-Jul-2025   | 0.25 hrs      | 122 hrs | ✖<br>EHTR-FM |
| Physical Tests : TDS by Gravimetry                                                                  |            |               |                          |               |         |              |               |               |         |              |
| HDPE<br>Treated Water - Entering the Distribution System                                            | E162       | 02-Jul-2025   | ----                     | ----          | ----    |              | 09-Jul-2025   | 7 days        | 7 days  | ✓            |
| Physical Tests : Turbidity by Nephelometry                                                          |            |               |                          |               |         |              |               |               |         |              |
| HDPE<br>Treated Water - Entering the Distribution System                                            | E121       | 02-Jul-2025   | ----                     | ----          | ----    |              | 05-Jul-2025   | 3 days        | 3 days  | ✓            |
| Physical Tests : UV Absorbance and Transmittance by Spectrometry                                    |            |               |                          |               |         |              |               |               |         |              |
| HDPE<br>Treated Water - Entering the Distribution System                                            | E404       | 02-Jul-2025   | ----                     | ----          | ----    |              | 04-Jul-2025   | 3 days        | 2 days  | ✓            |
| Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS                                |            |               |                          |               |         |              |               |               |         |              |
| Amber glass/Teflon lined cap (sodium bisulfate)<br>Treated Water - Entering the Distribution System | E641A      | 02-Jul-2025   | 07-Jul-2025              | 14 days       | 5 days  | ✓            | 07-Jul-2025   | 40 days       | 0 days  | ✓            |
| Radiological Parameters : Iodine-131 and Cesium-137 in Water by Gamma Spectroscopy                  |            |               |                          |               |         |              |               |               |         |              |
| HDPE total (nitric acid)<br>Treated Water - Entering the Distribution System                        | I131+Cs137 | 02-Jul-2025   | ----                     | ----          | ----    |              | 06-Aug-2025   | ----          | ----    |              |



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s)                           | Method  | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |         |          |
|------------------------------------------------------------------------------------------------|---------|---------------|--------------------------|---------------|--------|------|---------------|---------------|---------|----------|
|                                                                                                |         |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |         | Eval     |
|                                                                                                |         |               |                          | Rec           | Actual |      |               | Rec           | Actual  |          |
| Radiological Parameters : Lead 210 in Water by Gas Flow Proportional Counting                  |         |               |                          |               |        |      |               |               |         |          |
| HDPE total (nitric acid)<br>Treated Water - Entering the Distribution System                   | Pb-210  | 02-Jul-2025   | ----                     | ----          | ----   |      | 06-Aug-2025   | ----          | ----    |          |
| Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)               |         |               |                          |               |        |      |               |               |         |          |
| HDPE total (nitric acid)<br>Treated Water - Entering the Distribution System                   | Ra-226  | 02-Jul-2025   | ----                     | ----          | ----   |      | 06-Aug-2025   | ----          | ----    |          |
| Radiological Parameters : Radon 222 in Water by Liquid Scintillation                           |         |               |                          |               |        |      |               |               |         |          |
| Glass vial<br>Treated Water - Entering the Distribution System                                 | Rn222   | 02-Jul-2025   | ----                     | ----          | ----   |      | 06-Aug-2025   | 4 days        | 35 days | ✖<br>EHT |
| Radiological Parameters : Strontium-90 in Water by Gas Flow Proportional Counting              |         |               |                          |               |        |      |               |               |         |          |
| HDPE total (nitric acid)<br>Treated Water - Entering the Distribution System                   | Sr90    | 02-Jul-2025   | ----                     | ----          | ----   |      | 06-Aug-2025   | ----          | ----    |          |
| Radiological Parameters : Tritium (H-3) in Water by Liquid Scintillation Counting              |         |               |                          |               |        |      |               |               |         |          |
| HDPE<br>Treated Water - Entering the Distribution System                                       | TRITIUM | 02-Jul-2025   | ----                     | ----          | ----   |      | 06-Aug-2025   | 180 days      | 35 days | ✔        |
| Total Metals : Total Mercury in Water by CVAAS                                                 |         |               |                          |               |        |      |               |               |         |          |
| Glass vial total (hydrochloric acid)<br>Treated Water - Entering the Distribution System       | E508    | 02-Jul-2025   | 04-Jul-2025              | 28 days       | 2 days | ✔    | 04-Jul-2025   | 28 days       | 2 days  | ✔        |
| Total Metals : Total Metals in Water by CRC ICPMS                                              |         |               |                          |               |        |      |               |               |         |          |
| HDPE total (nitric acid)<br>Treated Water - Entering the Distribution System                   | E420    | 02-Jul-2025   | 04-Jul-2025              | 180 days      | 2 days | ✔    | 04-Jul-2025   | 180 days      | 2 days  | ✔        |
| Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)                                |         |               |                          |               |        |      |               |               |         |          |
| HDPE total (zinc acetate+sodium hydroxide)<br>Treated Water - Entering the Distribution System | E395    | 02-Jul-2025   | ----                     | ----          | ----   |      | 03-Jul-2025   | 7 days        | 1 days  | ✔        |
| Volatile Organic Compounds : VOCs (Dioxane) by Headspace GC-MS                                 |         |               |                          |               |        |      |               |               |         |          |
| Glass vial (sodium bisulfate)<br>Treated Water - Entering the Distribution System              | E611I   | 02-Jul-2025   | 07-Jul-2025              | 14 days       | 5 days | ✔    | 07-Jul-2025   | 14 days       | 5 days  | ✔        |

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 Work Order : GP2501197  
 Client : Aquatera Utilities Inc.  
 Project : WT-GP



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method                                                 |                  | Method | Sampling Date | Extraction / Preparation                                         |         |        |               | Analysis      |         |        |   |
|-----------------------------------------------------------------------------------|------------------|--------|---------------|------------------------------------------------------------------|---------|--------|---------------|---------------|---------|--------|---|
| Container / Client Sample ID(s)                                                   | Preparation Date |        |               | Holding Times                                                    |         | Eval   | Analysis Date | Holding Times |         | Eval   |   |
|                                                                                   |                  |        |               | Rec                                                              | Actual  |        |               | Rec           | Actual  |        |   |
|                                                                                   |                  |        |               | Volatile Organic Compounds : VOCs (Full List) by Headspace GC-MS |         |        |               |               |         |        |   |
| Glass vial (sodium bisulfate)<br>Treated Water - Entering the Distribution System |                  | E611F  | 02-Jul-2025   | 07-Jul-2025                                                      | 14 days | 5 days | ✔             | 07-Jul-2025   | 14 days | 5 days | ✔ |

**Legend & Qualifier Definitions**

Rec. HT: ALS recommended hold time (see units).





## Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water** Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

| Quality Control Sample Type                                                                 | Method    | QC Lot # | Count |         | Frequency (%) |          |            |
|---------------------------------------------------------------------------------------------|-----------|----------|-------|---------|---------------|----------|------------|
|                                                                                             |           |          | QC    | Regular | Actual        | Expected | Evaluation |
| Analytical Methods                                                                          |           |          |       |         |               |          |            |
| Laboratory Duplicates (DUP)                                                                 |           |          |       |         |               |          |            |
| Conductivity in Water                                                                       | E100      | 2092921  | 1     | 20      | 5.0           | 5.0      | ✓          |
| pH by Meter                                                                                 | E108      | 2092920  | 1     | 20      | 5.0           | 5.0      | ✓          |
| Turbidity by Nephelometry                                                                   | E121      | 2090991  | 1     | 20      | 5.0           | 5.0      | ✓          |
| TDS by Gravimetry                                                                           | E162      | 2092895  | 1     | 20      | 5.0           | 5.0      | ✓          |
| Chloride in Water by IC                                                                     | E235.Cl   | 2086958  | 1     | 20      | 5.0           | 5.0      | ✓          |
| Fluoride in Water by IC                                                                     | E235.F    | 2086955  | 1     | 20      | 5.0           | 5.0      | ✓          |
| Nitrite in Water by IC                                                                      | E235.NO2  | 2086956  | 1     | 20      | 5.0           | 5.0      | ✓          |
| Nitrate in Water by IC                                                                      | E235.NO3  | 2086959  | 1     | 20      | 5.0           | 5.0      | ✓          |
| Sulfate in Water by IC                                                                      | E235.SO4  | 2086957  | 1     | 20      | 5.0           | 5.0      | ✓          |
| Ammonia by Fluorescence                                                                     | E298      | 2087941  | 1     | 20      | 5.0           | 5.0      | ✓          |
| Total Chlorine (Residual) by DPD Colourimetry                                               | E326-H    | 2088072  | 1     | 7       | 14.2          | 5.0      | ✓          |
| Free Chlorine (Residual) by DPD Colourimetry                                                | E327-H    | 2088075  | 1     | 5       | 20.0          | 5.0      | ✓          |
| Colour (True) by Spectrometer (5 CU)                                                        | E329      | 2089197  | 1     | 4       | 25.0          | 5.0      | ✓          |
| Total Cyanide                                                                               | E333      | 2092550  | 1     | 19      | 5.2           | 5.0      | ✓          |
| Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)                              | E355-L    | 2099329  | 1     | 2       | 50.0          | 5.0      | ✓          |
| Nitrilotriacetic Acid (NTA) in Water                                                        | E394      | 2097309  | 1     | 6       | 16.6          | 5.0      | ✓          |
| Total Sulfide by Colourimetry (Automated Flow)                                              | E395      | 2087738  | 1     | 19      | 5.2           | 5.0      | ✓          |
| UV Absorbance and Transmittance by Spectrometry                                             | E404      | 2090089  | 1     | 3       | 33.3          | 5.0      | ✓          |
| Chlorite (CLO2) in Waters by Ion Chromatography                                             | E409.CLO2 | 2092693  | 1     | 8       | 12.5          | 5.0      | ✓          |
| Chlorate (CLO3) in Waters by Ion Chromatography                                             | E409.CLO3 | 2092692  | 1     | 10      | 10.0          | 5.0      | ✓          |
| Total Metals in Water by CRC ICPMS                                                          | E420      | 2089254  | 1     | 19      | 5.2           | 5.0      | ✓          |
| Total Mercury in Water by CVAAS                                                             | E508      | 2089249  | 1     | 20      | 5.0           | 5.0      | ✓          |
| Microcystin by ELISA (Extraction by Sonication)                                             | E576      | 2089134  | 1     | 6       | 16.6          | 5.0      | ✓          |
| VOCs (Full List) by Headspace GC-MS                                                         | E611F     | 2091294  | 1     | 2       | 50.0          | 5.0      | ✓          |
| VOCs (Dioxane) by Headspace GC-MS                                                           | E611I     | 2091293  | 1     | 2       | 50.0          | 5.0      | ✓          |
| Phenoxy Herbicides and other Herbicides/Pesticides in Water by LC-MS-MS                     | E706A     | 2094138  | 1     | 6       | 16.6          | 5.0      | ✓          |
| Glyphosate and AMPA in Water                                                                | E716A     | 2092343  | 1     | 20      | 5.0           | 5.0      | ✓          |
| Bromate and Perchlorate in Water by LC-MS-MS                                                | E722A     | 2092350  | 1     | 5       | 20.0          | 5.0      | ✓          |
| Diquat and Paraquat in Water by LC-MS-MS                                                    | E723A     | 2092375  | 1     | 9       | 11.1          | 5.0      | ✓          |
| Nitrosamines by LC-MS-MS by Direct Injection (Routine Levels)                               | E725A     | 2096346  | 1     | 15      | 6.6           | 5.0      | ✓          |
| PFAS in Drinking Water by LC-MS/MS                                                          | E745DW    | 2096334  | 1     | 7       | 14.2          | 5.0      | ✓          |
| Pesticides in Water by LC-MS-MS (Routine Level)                                             | E755      | 2092645  | 1     | 14      | 7.1           | 5.0      | ✓          |
| Chlorpyrifos, methyl and ethyl Parathion, Ethalfuralin and Trifluralin in Water by LC-MS-MS | E756      | 2096620  | 1     | 13      | 7.6           | 5.0      | ✓          |
| Laboratory Control Samples (LCS)                                                            |           |          |       |         |               |          |            |



Matrix: **Water**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

| Quality Control Sample Type                                                                 |           |          | Count |         | Frequency (%) |          |            |
|---------------------------------------------------------------------------------------------|-----------|----------|-------|---------|---------------|----------|------------|
| Analytical Methods                                                                          | Method    | QC Lot # | QC    | Regular | Actual        | Expected | Evaluation |
| <b>Laboratory Control Samples (LCS) - Continued</b>                                         |           |          |       |         |               |          |            |
| Conductivity in Water                                                                       | E100      | 2092921  | 1     | 20      | 5.0           | 5.0      | ✔          |
| pH by Meter                                                                                 | E108      | 2092920  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Turbidity by Nephelometry                                                                   | E121      | 2090991  | 1     | 20      | 5.0           | 5.0      | ✔          |
| TDS by Gravimetry                                                                           | E162      | 2092895  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Chloride in Water by IC                                                                     | E235.Cl   | 2086958  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Fluoride in Water by IC                                                                     | E235.F    | 2086955  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Nitrite in Water by IC                                                                      | E235.NO2  | 2086956  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Nitrate in Water by IC                                                                      | E235.NO3  | 2086959  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Sulfate in Water by IC                                                                      | E235.SO4  | 2086957  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Ammonia by Fluorescence                                                                     | E298      | 2087941  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Total Chlorine (Residual) by DPD Colourimetry                                               | E326-H    | 2088072  | 1     | 7       | 14.2          | 5.0      | ✔          |
| Free Chlorine (Residual) by DPD Colourimetry                                                | E327-H    | 2088075  | 1     | 5       | 20.0          | 5.0      | ✔          |
| Colour (True) by Spectrometer (5 CU)                                                        | E329      | 2089197  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Cyanide                                                                               | E333      | 2092550  | 1     | 19      | 5.2           | 5.0      | ✔          |
| Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)                              | E355-L    | 2099329  | 1     | 2       | 50.0          | 5.0      | ✔          |
| Nitritotriacetic Acid (NTA) in Water                                                        | E394      | 2097309  | 1     | 6       | 16.6          | 5.0      | ✔          |
| Total Sulfide by Colourimetry (Automated Flow)                                              | E395      | 2087738  | 1     | 19      | 5.2           | 5.0      | ✔          |
| UV Absorbance and Transmittance by Spectrometry                                             | E404      | 2090089  | 1     | 3       | 33.3          | 5.0      | ✔          |
| Chlorite (CLO2) in Waters by Ion Chromatography                                             | E409.CLO2 | 2092693  | 1     | 8       | 12.5          | 5.0      | ✔          |
| Chlorate (CLO3) in Waters by Ion Chromatography                                             | E409.CLO3 | 2092692  | 1     | 10      | 10.0          | 5.0      | ✔          |
| Total Metals in Water by CRC ICPMS                                                          | E420      | 2089254  | 1     | 19      | 5.2           | 5.0      | ✔          |
| Total Mercury in Water by CVAAS                                                             | E508      | 2089249  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Microcystin by ELISA (Extraction by Sonication)                                             | E576      | 2089134  | 1     | 6       | 16.6          | 5.0      | ✔          |
| VOCs (Full List) by Headspace GC-MS                                                         | E611F     | 2091294  | 1     | 2       | 50.0          | 5.0      | ✔          |
| VOCs (Dioxane) by Headspace GC-MS                                                           | E611I     | 2091293  | 1     | 2       | 50.0          | 5.0      | ✔          |
| BNA (Extended List) by GC-MS-MS                                                             | E625      | 2092247  | 1     | 7       | 14.2          | 5.0      | ✔          |
| PAHs in Water by Hexane LVI GC-MS                                                           | E641A     | 2093299  | 1     | 8       | 12.5          | 5.0      | ✔          |
| OCP Analysis by GC-MS-MS                                                                    | E660F     | 2093165  | 1     | 14      | 7.1           | 5.0      | ✔          |
| Phenoxy Herbicides and other Herbicides/Pesticides in Water by LC-MS-MS                     | E706A     | 2094138  | 1     | 6       | 16.6          | 5.0      | ✔          |
| Glyphosate and AMPA in Water                                                                | E716A     | 2092343  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Bromate and Perchlorate in Water by LC-MS-MS                                                | E722A     | 2092350  | 1     | 5       | 20.0          | 5.0      | ✔          |
| Diquat and Paraquat in Water by LC-MS-MS                                                    | E723A     | 2092375  | 1     | 9       | 11.1          | 5.0      | ✔          |
| Nitrosamines by LC-MS-MS by Direct Injection (Routine Levels)                               | E725A     | 2096346  | 1     | 15      | 6.6           | 5.0      | ✔          |
| PFAS in Drinking Water by LC-MS/MS                                                          | E745DW    | 2096334  | 1     | 7       | 14.2          | 5.0      | ✔          |
| Pesticides in Water by LC-MS-MS (Routine Level)                                             | E755      | 2092645  | 1     | 14      | 7.1           | 5.0      | ✔          |
| Chlorpyrifos, methyl and ethyl Parathion, Ethalfuralin and Trifluralin in Water by LC-MS-MS | E756      | 2096620  | 1     | 13      | 7.6           | 5.0      | ✔          |
| Method Blanks (MB)                                                                          |           |          |       |         |               |          |            |



Matrix: **Water**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

| Quality Control Sample Type                                                                 |           |          | Count |         | Frequency (%) |          |            |
|---------------------------------------------------------------------------------------------|-----------|----------|-------|---------|---------------|----------|------------|
| Analytical Methods                                                                          | Method    | QC Lot # | QC    | Regular | Actual        | Expected | Evaluation |
| <b>Method Blanks (MB) - Continued</b>                                                       |           |          |       |         |               |          |            |
| Conductivity in Water                                                                       | E100      | 2092921  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Turbidity by Nephelometry                                                                   | E121      | 2090991  | 1     | 20      | 5.0           | 5.0      | ✔          |
| TDS by Gravimetry                                                                           | E162      | 2092895  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Chloride in Water by IC                                                                     | E235.Cl   | 2086958  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Fluoride in Water by IC                                                                     | E235.F    | 2086955  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Nitrite in Water by IC                                                                      | E235.NO2  | 2086956  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Nitrate in Water by IC                                                                      | E235.NO3  | 2086959  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Sulfate in Water by IC                                                                      | E235.SO4  | 2086957  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Ammonia by Fluorescence                                                                     | E298      | 2087941  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Total Chlorine (Residual) by DPD Colourimetry                                               | E326-H    | 2088072  | 1     | 7       | 14.2          | 5.0      | ✔          |
| Free Chlorine (Residual) by DPD Colourimetry                                                | E327-H    | 2088075  | 1     | 5       | 20.0          | 5.0      | ✔          |
| Colour (True) by Spectrometer (5 CU)                                                        | E329      | 2089197  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Cyanide                                                                               | E333      | 2092550  | 1     | 19      | 5.2           | 5.0      | ✔          |
| Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)                              | E355-L    | 2099329  | 1     | 2       | 50.0          | 5.0      | ✔          |
| Nitritotriacetic Acid (NTA) in Water                                                        | E394      | 2097309  | 1     | 6       | 16.6          | 5.0      | ✔          |
| Total Sulfide by Colourimetry (Automated Flow)                                              | E395      | 2087738  | 1     | 19      | 5.2           | 5.0      | ✔          |
| UV Absorbance and Transmittance by Spectrometry                                             | E404      | 2090089  | 1     | 3       | 33.3          | 5.0      | ✔          |
| Chlorite (CLO2) in Waters by Ion Chromatography                                             | E409.CLO2 | 2092693  | 1     | 8       | 12.5          | 5.0      | ✔          |
| Chlorate (CLO3) in Waters by Ion Chromatography                                             | E409.CLO3 | 2092692  | 1     | 10      | 10.0          | 5.0      | ✔          |
| Total Metals in Water by CRC ICPMS                                                          | E420      | 2089254  | 1     | 19      | 5.2           | 5.0      | ✔          |
| Total Mercury in Water by CVAAS                                                             | E508      | 2089249  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Microcystin by ELISA (Extraction by Sonication)                                             | E576      | 2089134  | 1     | 6       | 16.6          | 5.0      | ✔          |
| VOCs (Full List) by Headspace GC-MS                                                         | E611F     | 2091294  | 1     | 2       | 50.0          | 5.0      | ✔          |
| VOCs (Dioxane) by Headspace GC-MS                                                           | E611I     | 2091293  | 1     | 2       | 50.0          | 5.0      | ✔          |
| BNA (Extended List) by GC-MS-MS                                                             | E625      | 2092247  | 1     | 7       | 14.2          | 5.0      | ✔          |
| PAHs in Water by Hexane LVI GC-MS                                                           | E641A     | 2093299  | 1     | 8       | 12.5          | 5.0      | ✔          |
| OCP Analysis by GC-MS-MS                                                                    | E660F     | 2093165  | 1     | 14      | 7.1           | 5.0      | ✔          |
| Phenoxy Herbicides and other Herbicides/Pesticides in Water by LC-MS-MS                     | E706A     | 2094138  | 1     | 6       | 16.6          | 5.0      | ✔          |
| Glyphosate and AMPA in Water                                                                | E716A     | 2092343  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Bromate and Perchlorate in Water by LC-MS-MS                                                | E722A     | 2092350  | 1     | 5       | 20.0          | 5.0      | ✔          |
| Diquat and Paraquat in Water by LC-MS-MS                                                    | E723A     | 2092375  | 1     | 9       | 11.1          | 5.0      | ✔          |
| Nitrosamines by LC-MS-MS by Direct Injection (Routine Levels)                               | E725A     | 2096346  | 1     | 15      | 6.6           | 5.0      | ✔          |
| PFAS in Drinking Water by LC-MS/MS                                                          | E745DW    | 2096334  | 1     | 7       | 14.2          | 5.0      | ✔          |
| Pesticides in Water by LC-MS-MS (Routine Level)                                             | E755      | 2092645  | 1     | 14      | 7.1           | 5.0      | ✔          |
| Chlorpyrifos, methyl and ethyl Parathion, Ethalfuralin and Trifluralin in Water by LC-MS-MS | E756      | 2096620  | 1     | 13      | 7.6           | 5.0      | ✔          |
| <b>Matrix Spikes (MS)</b>                                                                   |           |          |       |         |               |          |            |
| Chloride in Water by IC                                                                     | E235.Cl   | 2086958  | 1     | 20      | 5.0           | 5.0      | ✔          |



Matrix: **Water**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

| Quality Control Sample Type                                                                 |           |          | Count |         | Frequency (%) |          |            |
|---------------------------------------------------------------------------------------------|-----------|----------|-------|---------|---------------|----------|------------|
| Analytical Methods                                                                          | Method    | QC Lot # | QC    | Regular | Actual        | Expected | Evaluation |
| Matrix Spikes (MS) - Continued                                                              |           |          |       |         |               |          |            |
| Fluoride in Water by IC                                                                     | E235.F    | 2086955  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Nitrite in Water by IC                                                                      | E235.NO2  | 2086956  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Nitrate in Water by IC                                                                      | E235.NO3  | 2086959  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Sulfate in Water by IC                                                                      | E235.SO4  | 2086957  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Ammonia by Fluorescence                                                                     | E298      | 2087941  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Total Cyanide                                                                               | E333      | 2092550  | 1     | 19      | 5.2           | 5.0      | ✔          |
| Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)                              | E355-L    | 2099329  | 1     | 2       | 50.0          | 5.0      | ✔          |
| Nitrilotriacetic Acid (NTA) in Water                                                        | E394      | 2097309  | 1     | 6       | 16.6          | 5.0      | ✔          |
| Total Sulfide by Colourimetry (Automated Flow)                                              | E395      | 2087738  | 1     | 19      | 5.2           | 5.0      | ✔          |
| Chlorite (CLO2) in Waters by Ion Chromatography                                             | E409.CLO2 | 2092693  | 1     | 8       | 12.5          | 5.0      | ✔          |
| Chlorate (CLO3) in Waters by Ion Chromatography                                             | E409.CLO3 | 2092692  | 1     | 10      | 10.0          | 5.0      | ✔          |
| Total Metals in Water by CRC ICPMS                                                          | E420      | 2089254  | 1     | 19      | 5.2           | 5.0      | ✔          |
| Total Mercury in Water by CVAAS                                                             | E508      | 2089249  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Microcystin by ELISA (Extraction by Sonication)                                             | E576      | 2089134  | 1     | 6       | 16.6          | 5.0      | ✔          |
| VOCs (Full List) by Headspace GC-MS                                                         | E611F     | 2091294  | 1     | 2       | 50.0          | 5.0      | ✔          |
| VOCs (Dioxane) by Headspace GC-MS                                                           | E611I     | 2091293  | 1     | 2       | 50.0          | 5.0      | ✔          |
| Phenoxy Herbicides and other Herbicides/Pesticides in Water by LC-MS-MS                     | E706A     | 2094138  | 1     | 6       | 16.6          | 5.0      | ✔          |
| Glyphosate and AMPA in Water                                                                | E716A     | 2092343  | 1     | 20      | 5.0           | 5.0      | ✔          |
| Bromate and Perchlorate in Water by LC-MS-MS                                                | E722A     | 2092350  | 1     | 5       | 20.0          | 5.0      | ✔          |
| Diquat and Paraquat in Water by LC-MS-MS                                                    | E723A     | 2092375  | 1     | 9       | 11.1          | 5.0      | ✔          |
| Nitrosamines by LC-MS-MS by Direct Injection (Routine Levels)                               | E725A     | 2096346  | 1     | 15      | 6.6           | 5.0      | ✔          |
| PFAS in Drinking Water by LC-MS/MS                                                          | E745DW    | 2096334  | 1     | 7       | 14.2          | 5.0      | ✔          |
| Pesticides in Water by LC-MS-MS (Routine Level)                                             | E755      | 2092645  | 1     | 14      | 7.1           | 5.0      | ✔          |
| Chlorpyrifos, methyl and ethyl Parathion, Ethalfuralin and Trifluralin in Water by LC-MS-MS | E756      | 2096620  | 1     | 13      | 7.6           | 5.0      | ✔          |



## Methodology References and Summaries

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. Reference methods may incorporate modifications to improve performance (indicated by "mod").

| Analytical Methods        | Method / Lab                                | Matrix | Method Reference           | Method Descriptions                                                                                                                                                                                                                                                         |
|---------------------------|---------------------------------------------|--------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conductivity in Water     | E100<br>ALS Environmental -<br>Edmonton     | Water  | APHA 2510 (mod)            | Conductivity, also known as Electrical Conductivity (EC) or Specific Conductance, is measured by immersion of a conductivity cell with platinum electrodes into a water sample. Conductivity measurements are temperature-compensated to 25°C.                              |
| pH by Meter               | E108<br>ALS Environmental -<br>Edmonton     | Water  | APHA 4500-H (mod)          | pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally $20 \pm 5^\circ\text{C}$ ). For high accuracy test results, pH should be measured in the field within the recommended 15 minute hold time. |
| Turbidity by Nephelometry | E121<br>ALS Environmental -<br>Edmonton     | Water  | APHA 2130 B (mod)          | Turbidity is measured by the nephelometric method, by measuring the intensity of light scatter under defined conditions.                                                                                                                                                    |
| TDS by Gravimetry         | E162<br>ALS Environmental -<br>Edmonton     | Water  | APHA 2540 C (mod)          | Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, with evaporation of the filtrate at $180 \pm 2^\circ\text{C}$ for 16 hours or to constant weight, with gravimetric measurement of the residue.                              |
| Chloride in Water by IC   | E235.Cl<br>ALS Environmental -<br>Edmonton  | Water  | EPA 300.1 (mod)            | Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.                                                                                                                                                                                  |
| Fluoride in Water by IC   | E235.F<br>ALS Environmental -<br>Edmonton   | Water  | EPA 300.1 (mod)            | Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.                                                                                                                                                                                  |
| Nitrite in Water by IC    | E235.NO2<br>ALS Environmental -<br>Edmonton | Water  | EPA 300.1 (mod)            | Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.                                                                                                                                                                                  |
| Nitrate in Water by IC    | E235.NO3<br>ALS Environmental -<br>Edmonton | Water  | EPA 300.1 (mod)            | Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.                                                                                                                                                                                  |
| Sulfate in Water by IC    | E235.SO4<br>ALS Environmental -<br>Edmonton | Water  | EPA 300.1 (mod)            | Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.                                                                                                                                                                                  |
| Ammonia by Fluorescence   | E298<br>ALS Environmental -<br>Edmonton     | Water  | Method Fialab 100,<br>2018 | Ammonia in water is determined by automated continuous flow analysis with membrane diffusion and fluorescence detection, after reaction with OPA (ortho-phthalaldehyde). This method is approved under US EPA 40 CFR Part 136 (May 2021)                                    |



| Analytical Methods                                             | Method / Lab                                  | Matrix | Method Reference        | Method Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------|-----------------------------------------------|--------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Total Chlorine (Residual) by DPD Colourimetry                  | E326-H<br><br>ALS Environmental -<br>Edmonton | Water  | APHA 4500-Cl G<br>(mod) | <p>Chlorine (residual), as free or total, is analyzed using the DPD colourimetric method. The recommended hold time for this test is 15 minutes and field testing is recommended when determining Chlorine concentrations at the time of sampling.</p> <p>Chlorine if present in a sample container after sampling can be rapidly consumed by any inorganic or organic matter in the sample and dissipates rapidly into headspace.</p> <p>Laboratory results may be requested when chlorine concentrations that may be present at the time of laboratory analysis are required for the interpretation of other laboratory analysis where the presence of Chlorine may affect results. e.g. laboratory toxicity testing</p> |
| Free Chlorine (Residual) by DPD Colourimetry                   | E327-H<br><br>ALS Environmental -<br>Edmonton | Water  | APHA 4500-Cl G<br>(mod) | <p>Chlorine (residual), as free or total, is analyzed using the DPD colourimetric method. The recommended hold time for this test is 15 minutes and field testing is recommended when determining Chlorine concentrations at the time of sampling.</p> <p>Chlorine if present in a sample container after sampling can be rapidly consumed by any inorganic or organic matter in the sample and dissipates rapidly into headspace.</p> <p>Laboratory results may be requested when chlorine concentrations that may be present at the time of laboratory analysis are required for the interpretation of other laboratory analysis where the presence of Chlorine may affect results. e.g. laboratory toxicity testing</p> |
| Colour (True) by Spectrometer (5 CU)                           | E329<br><br>ALS Environmental -<br>Calgary    | Water  | APHA 2120 C (mod)       | <p>Colour (True Colour) is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using the platinum-cobalt colourimetric method. Colour measurements can be highly pH dependent, and apply to the pH of the sample as received (at time of testing), without pH adjustment.</p>                                                                                                                                                                                                                                                                                                                                                                                      |
| Total Cyanide                                                  | E333<br><br>ALS Environmental -<br>Waterloo   | Water  | ISO 14403 (mod)         | <p>Total or Strong Acid Dissociable (SAD) Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line UV digestion followed by colourimetric analysis.</p> <p>Method Limitation: High levels of thiocyanate (SCN) may cause positive interference (up to 0.5% of SCN concentration).</p>                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Total Organic Carbon (Non-Purgeable) by Combustion (Low Level) | E355-L<br><br>ALS Environmental -<br>Calgary  | Water  | APHA 5310 B (mod)       | <p>Total Organic Carbon (Non-Purgeable), also known as NPOC (total), is a direct measurement of TOC after an acidified sample has been purged to remove carbonate-based Inorganic Carbon (IC). Analysis is by high temperature combustion with infrared detection of CO<sub>2</sub>. Forms of carbon associated with inorganic or organic molecules (e.g. SCN and CN) are included in NPOC if they are not removed by purging under acidic conditions. Notably, NPOC excludes most volatile organic compounds and free cyanide. For samples where the majority of Total Carbon is inorganic, this method provides greater accuracy and reliability versus the TOC by subtraction method (TC minus TIC).</p>                |



| Analytical Methods                                           | Method / Lab                                          | Matrix | Method Reference                             | Method Descriptions                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------|-------------------------------------------------------|--------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nitritotriacetic Acid (NTA) in Water                         | E394<br>ALS Environmental - Waterloo                  | Water  | EPA 430.1 (mod)                              | NTA refers to the tri-sodium salt of nitritotriacetic acid, $N(CH_2COONa)_3$ . Zinc forms a blue-coloured complex with 2 carboxy-2-hydroxy-5-sulfoformazylbenzene (Zincon) in a solution buffered to pH 9.2. When NTA is added to the sample, the Zinc-Zincon complex is broken which reduces the absorbance in proportion to the amount of NTA present. Samples are filtered with a 0.45 um membrane before analysis. |
| Total Sulfide by Colourimetry (Automated Flow)               | E395<br>ALS Environmental - Calgary                   | Water  | APHA 4500 -S<br>E-Auto-Colorimetry           | Sulfide is determined using the gas dialysis automated methylene blue colourimetric method. Results expressed "as H <sub>2</sub> S" if reported represent the maximum possible H <sub>2</sub> S concentration based on the total sulfide concentration in the sample. The H <sub>2</sub> S calculation converts Total Sulfide as (S <sub>2</sub> <sup>-</sup> ) and reports it as Total Sulfide as (H <sub>2</sub> S). |
| UV Absorbance and Transmittance by Spectrometry              | E404<br>ALS Environmental - Edmonton                  | Water  | APHA 5910 B (mod)                            | UV Absorbance is determined by first filtering a sample through a 0.45 micron filter, followed by UV absorbance measurement in a quartz cell at 254 nm. The analysis is carried out without pH adjustment.                                                                                                                                                                                                             |
| Chlorite (ClO <sub>2</sub> ) in Waters by Ion Chromatography | E409.ClO <sub>2</sub><br>ALS Environmental - Waterloo | Water  | EPA 300.1 (mod)                              | Inorganic anions are analyzed by Ion Chromatography with conductivity detection.                                                                                                                                                                                                                                                                                                                                       |
| Chlorate (ClO <sub>3</sub> ) in Waters by Ion Chromatography | E409.ClO <sub>3</sub><br>ALS Environmental - Waterloo | Water  | EPA 300.1 (mod)                              | Inorganic anions are analyzed by Ion Chromatography with conductivity detection.                                                                                                                                                                                                                                                                                                                                       |
| Total Metals in Water by CRC ICPMS                           | E420<br>ALS Environmental - Edmonton                  | Water  | EPA 200.2/6020B (mod)                        | Water samples are digested with nitric and hydrochloric acids, and analyzed by Collision/Reaction Cell ICPMS.<br><br>Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.                                                                                                                                                                                          |
| Total Mercury in Water by CVAAS                              | E508<br>ALS Environmental - Edmonton                  | Water  | EPA 1631E (mod)                              | Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS                                                                                                                                                                                                                                                                                     |
| Microcystin by ELISA (Extraction by Sonication)              | E576<br>ALS Environmental - Winnipeg                  | Water  | ENVIROLOGIX<br>QUANTIPLATE KIT<br>CAT. EP022 | Total Microcystins (intracellular and extracellular) in aqueous matrices is determined by the Enzyme-Linked ImmunoSorbent Assay (ELISA) method.<br><br>Extraction is by sonication                                                                                                                                                                                                                                     |
| VOCs (Full List) by Headspace GC-MS                          | E611F<br>ALS Environmental - Calgary                  | Water  | EPA 8260D (mod)                              | Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.                                                                                                                                      |
| VOCs (Dioxane) by Headspace GC-MS                            | E611I<br>ALS Environmental - Calgary                  | Water  | EPA 8260D (mod)                              | Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.                                                                                                                                      |
| BNA (Extended List) by GC-MS-MS                              | E625                                                  | Water  | EPA 8270E (mod)                              | BNA are analyzed by GC-MS-MS.                                                                                                                                                                                                                                                                                                                                                                                          |



| Analytical Methods                                                                                | Method / Lab                                  | Matrix | Method Reference | Method Descriptions                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------|--------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                   | ALS Environmental -<br>Waterloo               |        |                  |                                                                                                                                                                                                               |
| PAHs in Water by Hexane LVI GC-MS                                                                 | E641A<br><br>ALS Environmental -<br>Calgary   | Water  | EPA 8270E (mod)  | Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.                                                                                                                   |
| OCP Analysis by GC-MS-MS                                                                          | E660F<br><br>ALS Environmental -<br>Waterloo  | Water  | EPA 8270E (mod)  | Pesticides are analyzed by GC-MS-MS                                                                                                                                                                           |
| Phenoxy Herbicides and other<br>Herbicides/Pesticides in Water by LC-MS-MS                        | E706A<br><br>ALS Environmental -<br>Waterloo  | Water  | MOE E3552        | Water samples are subjected to 0.2 µM RC filtration and analyzed by direct injection using liquid chromatography tandem mass spectrometry (LC-MS/MS).                                                         |
| Glyphosate and AMPA in Water                                                                      | E716A<br><br>ALS Environmental -<br>Waterloo  | Water  | E3500 (mod)      | An aliquot of 4.0 ± 0.1 mL of a water sample is spiked with an Internal Standard, Glyphosate-13C <sub>2</sub> ,15N, and derivatized to FMOC-Glyphosate and FMOC-AMPA, then analyzed by LC-MS/MS.              |
| Bromate and Perchlorate in Water by<br>LC-MS-MS                                                   | E722A<br><br>ALS Environmental -<br>Waterloo  | Water  | EPA 6850         | A aliquot of the water sample is filtered and an internal standard is added. The sample is then analyzed by LC/MS/MS.                                                                                         |
| Diquat and Paraquat in Water by LC-MS-MS                                                          | E723A<br><br>ALS Environmental -<br>Waterloo  | Water  | EPA 549.2        | If the sample is not clear filter a portion of the sample using a RC filter. An aliquot of the sample is taken and internal standard is added. The sample is analyzed by LC/MS/MS.                            |
| Nitrosamines by LC-MS-MS by Direct Injection<br>(Routine Levels)                                  | E725A<br><br>ALS Environmental -<br>Waterloo  | Water  | QWI-ORG/WP239    | An aliquot of sample is injected directly using liquid chromatography tandem mass spectrometry.                                                                                                               |
| PFAS in Drinking Water by LC-MS/MS                                                                | E745DW<br><br>ALS Environmental -<br>Waterloo | Water  | EPA 533 (mod)    | Aqueous samples are spiked with isotopically labeled standards and extracted using solid-phase extraction (SPE) prior to LC-MS/MS analysis by isotope dilution or extracted internal standard quantification. |
| Pesticides in Water by LC-MS-MS (Routine<br>Level)                                                | E755<br><br>ALS Environmental -<br>Waterloo   | Water  | MECP E3553       | Pesticides are determined in Water Samples by Direct Aqueous Injection coupled to LC-MS/MS                                                                                                                    |
| Chlorpyrifos, methyl and ethyl Parathion,<br>Ethalfuralin and Trifluralin in Water by<br>LC-MS-MS | E756<br><br>ALS Environmental -<br>Waterloo   | Water  | MECP E3553       | Pesticides are determined in Aqueous Sample by Direct Injection coupled to LC-MS/MS                                                                                                                           |





| Analytical Methods                                          | Method / Lab                                                                                                                    | Matrix | Method Reference                        | Method Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hardness (Calculated) from Total Ca/Mg                      | EC100A<br><br>ALS Environmental -<br>Edmonton                                                                                   | Water  | APHA 2340B                              | "Hardness (as CaCO <sub>3</sub> ), from total Ca/Mg" is calculated from the sum of total Calcium and Magnesium concentrations, expressed as CaCO <sub>3</sub> equivalents. "Total Hardness" refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because hardness is a property of water due to dissolved divalent cations. In non-turbid waters, Hardness from total Ca/Mg is normally comparable to Dissolved Hardness, but may be biased high if particulate forms of Ca or Mg are present. |
| Nitrate and Nitrite (as N) (Calculation)                    | EC235.N+N<br><br>ALS Environmental -<br>Edmonton                                                                                | Water  | EPA 300.0                               | Nitrate and Nitrite (as N) is a calculated parameter. Nitrate and Nitrite (as N) = Nitrite (as N) + Nitrate (as N).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Total Chloramines (Calculated)                              | EC326<br><br>ALS Environmental -<br>Edmonton                                                                                    | Water  | BC MOE Lab Manual<br>(2009)             | Total Chloramines, as Chlorine, is determined by calculation. Total Chloramines (as Chlorine) = Total Chlorine - Free Chlorine. This calculation comes from the BCMOE lab manual (2009) "Total Residual Chlorine and Chloramines in water by DPD Colorimetric-PBM"                                                                                                                                                                                                                                                                                                                                    |
| Total PFAS (EPA 533 List of 25) in Water                    | EC745DW<br><br>ALS Environmental -<br>Waterloo                                                                                  | Water  | Calculation (EPA<br>533/Health Canada)) | Total PFAS (Health Canada List) is the sum of the following PFAS compounds, by Acronym: HFPO-DA, PFBS, PFDA, PFDaA, PFHpA, PFHxS, PFHxA, PFNA, PFOS, PFOA, PFUnA, 11Cl-PF3OUdS, 9Cl-PF3ONS, ADONA, NFDHA, PFBA, 8:2 FTS, PFEESA, PFHpS, 4:2 FTS, PFMPA, PFMBa, 6:2 FTS, PFPeA, and PFPeS. When the PFAS analyte is less than LOR, zero is used for calculation. Limit of Reporting for the sum is calculated as the square root of the sum of squares of input LORs (or greater). For the purposes of the Health Canada Objective, a result of non-detect is considered to have a value of zero.      |
| Iodine-131 and Cesium-137 in Water by<br>Gamma Spectroscopy | I131+Cs137<br><br>Saskatchewan<br>Research Council - 143<br>- 111 Research Drive<br>Saskatoon<br>Saskatchewan Canada<br>S7N 3R2 | Water  | EPA 901.1                               | Gamma emissions from radionuclides are detected by a semiconductor germanium crystal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Lead 210 in Water by Gas Flow Proportional<br>Counting      | Pb-210<br><br>Saskatchewan<br>Research Council - 143<br>- 111 Research Drive<br>Saskatoon<br>Saskatchewan Canada<br>S7N 3R2     | Water  | See attached report.                    | See attached report.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |



| Analytical Methods                                         | Method / Lab                                                                                                                 | Matrix | Method Reference     | Method Descriptions                                                |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------|----------------------|--------------------------------------------------------------------|
| Radium 226 in Water by Alpha Spectrometry<br>(0.005 Bq/L)  | Ra-226<br><br>Saskatchewan<br>Research Council - 143<br>- 111 Research Drive<br>Saskatoon<br>Saskatchewan Canada<br>S7N 3R2  | Water  |                      | See attached report.                                               |
| Radon 222 in Water by Liquid Scintillation                 | Rn222<br><br>Saskatchewan<br>Research Council - 143<br>- 111 Research Drive<br>Saskatoon<br>Saskatchewan Canada<br>S7N 3R2   | Water  | See attached report. | See attached report.                                               |
| Strontium-90 in Water by Gas Flow<br>Proportional Counting | Sr90<br><br>Saskatchewan<br>Research Council - 143<br>- 111 Research Drive<br>Saskatoon<br>Saskatchewan Canada<br>S7N 3R2    | Water  | See attached report  | See attached report.                                               |
| Tritium (H-3) in Water by Liquid Scintillation<br>Counting | TRITIUM<br><br>Saskatchewan<br>Research Council - 143<br>- 111 Research Drive<br>Saskatoon<br>Saskatchewan Canada<br>S7N 3R2 | Water  |                      | See attached report.                                               |
| Preparation Methods                                        | Method / Lab                                                                                                                 | Matrix | Method Reference     | Method Descriptions                                                |
| Preparation for Ammonia                                    | EP298<br><br>ALS Environmental -<br>Edmonton                                                                                 | Water  |                      | Sample preparation for Preserved Nutrients Water Quality Analysis. |
| Preparation for Total Organic Carbon by<br>Combustion      | EP355<br><br>ALS Environmental -<br>Calgary                                                                                  | Water  |                      | Preparation for Total Organic Carbon by Combustion                 |



| Preparation Methods                                                                    | Method / Lab                            | Matrix | Method Reference | Method Descriptions                                                                                                                                                                             |
|----------------------------------------------------------------------------------------|-----------------------------------------|--------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VOCs Preparation for Headspace Analysis                                                | EP581<br>ALS Environmental - Calgary    | Water  | EPA 5021A (mod)  | Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into a GC-MS-FID.                                |
| PHCs and PAHs Hexane Extraction                                                        | EP601<br>ALS Environmental - Calgary    | Water  | EPA 3511 (mod)   | Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.                                                                |
| BNA Extraction                                                                         | EP625<br>ALS Environmental - Waterloo   | Water  | EPA 3510C (mod)  | SVOCs are extracted from aqueous sample using DCM liquid-liquid extraction.                                                                                                                     |
| Pesticides, PCB, and Neutral Extractable Chlorinated Hydrocarbons Extraction           | EP660<br>ALS Environmental - Waterloo   | Water  | EPA 3511 (mod)   | Samples are extracted from aqueous sample using an organic solvent liquid-liquid extraction.                                                                                                    |
| Preparation of Phenoxy Herbicides and other Herbicides/Pesticides in Water by LC-MS-MS | EP706<br>ALS Environmental - Waterloo   | Water  | MOE E3552        | Water samples are subjected to 0.2 µM RC filtration (drinking water samples are not filtered) and analyzed by direct injection using liquid chromatography tandem mass spectrometry (LC-MS/MS). |
| Preparation of Glyphosate and AMPA in Water                                            | EP716<br>ALS Environmental - Waterloo   | Water  | MOE E3500        | Preparation of Glyphosate and AMPA in Water                                                                                                                                                     |
| Preparation of Bromate and Perchlorate in Water by LC-MS-MS                            | EP722<br>ALS Environmental - Waterloo   | Water  | EPA 6850         | An aliquot of the water sample is filtered if required and internal standard is added.                                                                                                          |
| Preparation of Diquat and Paraquat in Water                                            | EP723<br>ALS Environmental - Waterloo   | Water  | EPA 549.2        | If the sample is not clear filter a portion of the sample using a RC filter. An aliquot of the sample is taken and internal standard is added. The sample is analyzed by LC/MS/MS.              |
| Preparation of Nitrosamines for Direct Injection LC-MS-MS                              | EP725A<br>ALS Environmental - Waterloo  | Water  | QWI-ORG/WP239    | Preparation of Nitrosamines in Water for Direct Injection LC-MS-MS                                                                                                                              |
| Preparation of PFAS in Drinking Water by Solid Phase Extraction                        | EP745DW<br>ALS Environmental - Waterloo | Water  | EPA 533 (mod)    | Aqueous samples are spiked with isotopically labeled standards, extracted using solid phase extraction (SPE) cartridges prior to LC-MS/MS analysis.                                             |
| Preparation of Pesticides for Direct Injection in Water by LC-MS-MS                    | EP755<br>ALS Environmental - Waterloo   | Water  | MECP E3553       | Pesticides are determined in Water Samples by Direct Aqueous Injection coupled to LC-MS/MS                                                                                                      |

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| Preparation Methods                                                                                                | Method / Lab                                 | Matrix | Method Reference | Method Descriptions                                                                 |
|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------|------------------|-------------------------------------------------------------------------------------|
| Preparation of Chlorpyrifos, methyl and ethyl Parathion, Ethalfuralin and Trifluralin in Water by Direct Injection | EP756<br><br>ALS Environmental -<br>Waterloo | Water  | MECP E3553       | Pesticides are determined in Aqueous Sample by Direct Injection coupled to LC-MS/MS |

## QUALITY CONTROL REPORT

|                                |                                                                              |                                |                                                             |
|--------------------------------|------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------|
| <b>Work Order</b>              | <b>: GP2501197</b>                                                           | <b>Page</b>                    | <b>: 1 of 25</b>                                            |
| <b>Client</b>                  | : Aquatera Utilities Inc.                                                    | <b>Laboratory</b>              | : ALS Environmental - Grande Prairie                        |
| <b>Contact</b>                 | : Tamara Wuttunee-Cambell                                                    | <b>Account Manager</b>         | : Wanda Chapella                                            |
| <b>Address</b>                 | : Water Treatment Plant 11101 104 Avenue<br>Grande Prairie AB Canada T8V 8H6 | <b>Address</b>                 | : 9505 111 Street<br>Grande Prairie, Alberta Canada T8V 5W1 |
| <b>Telephone</b>               | : 780 532 3996                                                               | <b>Telephone</b>               | : 780-539-5196                                              |
| <b>Project</b>                 | : WT-GP                                                                      | <b>Date Samples Received</b>   | : 02-Jul-2025 12:00                                         |
| <b>PO</b>                      | : 34893                                                                      | <b>Date Analysis Commenced</b> | : 03-Jul-2025                                               |
| <b>C-O-C number</b>            | : ----                                                                       | <b>Issue Date</b>              | : 06-Aug-2025 12:00                                         |
| <b>Sampler</b>                 | : Mike Boyce                                                                 |                                |                                                             |
| <b>Site</b>                    | : Aquatera                                                                   |                                |                                                             |
| <b>Quote number</b>            | : GP2021AQUI1003                                                             |                                |                                                             |
| <b>No. of samples received</b> | : 1                                                                          |                                |                                                             |
| <b>No. of samples analysed</b> | : 1                                                                          |                                |                                                             |

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

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

### Signatories

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

| <i>Signatories</i> | <i>Position</i>                           | <i>Laboratory Department</i>           |
|--------------------|-------------------------------------------|----------------------------------------|
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| Alex Drake         | Lab Analyst                               | Edmonton Inorganics, Edmonton, Alberta |
| Alex Drake         | Lab Analyst                               | Edmonton Metals, Edmonton, Alberta     |
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|                  |                           |                                                                                |
|------------------|---------------------------|--------------------------------------------------------------------------------|
| Sanja Risticevic | Department Manager - LCMS | Waterloo LCMS, Waterloo, Ontario                                               |
| Sorina Motea     | Team Leader - Organics    | Calgary Organics, Calgary, Alberta                                             |
| Wanda Chapella   | Account Manager           | Saskatchewan Research Council External Subcontracting, Saskatoon, Saskatchewan |
| William Lake     | Laboratory Supervisor     | Winnipeg Microbiology, Winnipeg, Manitoba                                      |



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## General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

### Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

# = Indicates a QC result that did not meet the ALS DQO.

## Workorder Comments

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Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

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## Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

| Sub-Matrix: <b>Water</b>                            |                  |                                          |            |          | Laboratory Duplicate (DUP) Report |          |                 |                  |                      |                  |           |
|-----------------------------------------------------|------------------|------------------------------------------|------------|----------|-----------------------------------|----------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                                | Client sample ID | Analyte                                  | CAS Number | Method   | LOR                               | Unit     | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Physical Tests (QC Lot: 2089197)</b>             |                  |                                          |            |          |                                   |          |                 |                  |                      |                  |           |
| CG2509075-003                                       | Anonymous        | Colour, true                             | ----       | E329     | 5.0                               | CU       | <5.0            | <5.0             | 0                    | Diff <2x LOR     | ----      |
| <b>Physical Tests (QC Lot: 2090089)</b>             |                  |                                          |            |          |                                   |          |                 |                  |                      |                  |           |
| EO2505603-005                                       | Anonymous        | Absorbance, UV (@ 254nm)                 | ----       | E404     | 0.0050                            | AU/cm    | 0.160           | 0.159            | 0.627%               | 10%              | ----      |
| <b>Physical Tests (QC Lot: 2090991)</b>             |                  |                                          |            |          |                                   |          |                 |                  |                      |                  |           |
| EO2505559-001                                       | Anonymous        | Turbidity                                | ----       | E121     | 0.10                              | NTU      | 0.81            | 0.77             | 0.04                 | Diff <2x LOR     | ----      |
| <b>Physical Tests (QC Lot: 2092895)</b>             |                  |                                          |            |          |                                   |          |                 |                  |                      |                  |           |
| EO2505529-016                                       | Anonymous        | Solids, total dissolved [TDS]            | ----       | E162     | 20                                | mg/L     | 330             | 329              | 0.304%               | 20%              | ----      |
| <b>Physical Tests (QC Lot: 2092920)</b>             |                  |                                          |            |          |                                   |          |                 |                  |                      |                  |           |
| FC2501660-001                                       | Anonymous        | pH                                       | ----       | E108     | 0.10                              | pH units | 8.02            | 8.03             | 0.125%               | 3%               | ----      |
| <b>Physical Tests (QC Lot: 2092921)</b>             |                  |                                          |            |          |                                   |          |                 |                  |                      |                  |           |
| FC2501660-001                                       | Anonymous        | Conductivity                             | ----       | E100     | 1.0                               | µS/cm    | 3260            | 3160             | 3.12%                | 10%              | ----      |
| <b>Anions and Nutrients (QC Lot: 2086955)</b>       |                  |                                          |            |          |                                   |          |                 |                  |                      |                  |           |
| FC2501659-007                                       | Anonymous        | Fluoride                                 | 16984-48-8 | E235.F   | 0.020                             | mg/L     | 0.306           | 0.318            | 3.85%                | 20%              | ----      |
| <b>Anions and Nutrients (QC Lot: 2086956)</b>       |                  |                                          |            |          |                                   |          |                 |                  |                      |                  |           |
| FC2501659-007                                       | Anonymous        | Nitrite (as N)                           | 14797-65-0 | E235.NO2 | 0.010                             | mg/L     | <0.010          | <0.010           | 0                    | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 2086957)</b>       |                  |                                          |            |          |                                   |          |                 |                  |                      |                  |           |
| FC2501659-007                                       | Anonymous        | Sulfate (as SO4)                         | 14808-79-8 | E235.SO4 | 0.30                              | mg/L     | 674             | 699              | 3.57%                | 20%              | ----      |
| <b>Anions and Nutrients (QC Lot: 2086958)</b>       |                  |                                          |            |          |                                   |          |                 |                  |                      |                  |           |
| FC2501659-007                                       | Anonymous        | Chloride                                 | 16887-00-6 | E235.Cl  | 0.50                              | mg/L     | 5.54            | 5.60             | 1.11%                | 20%              | ----      |
| <b>Anions and Nutrients (QC Lot: 2086959)</b>       |                  |                                          |            |          |                                   |          |                 |                  |                      |                  |           |
| FC2501659-007                                       | Anonymous        | Nitrate (as N)                           | 14797-55-8 | E235.NO3 | 0.020                             | mg/L     | <0.020          | <0.020           | 0                    | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 2087941)</b>       |                  |                                          |            |          |                                   |          |                 |                  |                      |                  |           |
| FC2501663-002                                       | Anonymous        | Ammonia, total (as N)                    | 7664-41-7  | E298     | 0.0500                            | mg/L     | 2.74            | 2.75             | 0.411%               | 20%              | ----      |
| <b>Cyanides (QC Lot: 2092550)</b>                   |                  |                                          |            |          |                                   |          |                 |                  |                      |                  |           |
| HA2502100-005                                       | Anonymous        | Cyanide, strong acid dissociable (Total) | ----       | E333     | 0.0020                            | mg/L     | <0.0020         | <0.0020          | 0                    | Diff <2x LOR     | ----      |
| <b>Organic / Inorganic Carbon (QC Lot: 2099329)</b> |                  |                                          |            |          |                                   |          |                 |                  |                      |                  |           |
| GP2501196-001                                       | Anonymous        | Carbon, total organic [TOC]              | ----       | E355-L   | 0.50                              | mg/L     | 2.05            | 2.08             | 0.03                 | Diff <2x LOR     | ----      |
| <b>Inorganics (QC Lot: 2088072)</b>                 |                  |                                          |            |          |                                   |          |                 |                  |                      |                  |           |
| EO2505515-001                                       | Anonymous        | Chlorine, total                          | 7782-50-5  | E326-H   | 0.10                              | mg/L     | <0.10           | <0.10            | 0                    | Diff <2x LOR     | ----      |



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 Client : Aquatera Utilities Inc.  
 Project : WT-GP



| Sub-Matrix: Water                            |                  |                             |             |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|----------------------------------------------|------------------|-----------------------------|-------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                         | Client sample ID | Analyte                     | CAS Number  | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| Inorganics (QC Lot: 2088075)                 |                  |                             |             |        |                                   |      |                 |                  |                      |                  |           |
| EO2505533-001                                | Anonymous        | Chlorine, free              | 7782-50-5   | E327-H | 0.10                              | mg/L | <0.10           | <0.10            | 0                    | Diff <2x LOR     | ----      |
| Total Sulfides (QC Lot: 2087738)             |                  |                             |             |        |                                   |      |                 |                  |                      |                  |           |
| CG2509018-001                                | Anonymous        | Sulfide, total (as S)       | 18496-25-8  | E395   | 0.0075                            | mg/L | 2.81            | 2.83             | 0.575%               | 20%              | ----      |
| Total Metals (QC Lot: 2089249)               |                  |                             |             |        |                                   |      |                 |                  |                      |                  |           |
| EO2505396-001                                | Anonymous        | Mercury, total              | 7439-97-6   | E508   | 0.0000050                         | mg/L | <0.0000050      | <0.0000050       | 0                    | Diff <2x LOR     | ----      |
| Total Metals (QC Lot: 2089254)               |                  |                             |             |        |                                   |      |                 |                  |                      |                  |           |
| EO2505593-006                                | Anonymous        | Aluminum, total             | 7429-90-5   | E420   | 0.0030                            | mg/L | 0.0849          | 0.0853           | 0.478%               | 20%              | ----      |
|                                              |                  | Antimony, total             | 7440-36-0   | E420   | 0.00010                           | mg/L | 0.00016         | 0.00016          | 0.000003             | Diff <2x LOR     | ----      |
|                                              |                  | Arsenic, total              | 7440-38-2   | E420   | 0.00010                           | mg/L | 0.00707         | 0.00719          | 1.60%                | 20%              | ----      |
|                                              |                  | Barium, total               | 7440-39-3   | E420   | 0.00010                           | mg/L | 0.110           | 0.109            | 0.430%               | 20%              | ----      |
|                                              |                  | Boron, total                | 7440-42-8   | E420   | 0.010                             | mg/L | 0.053           | 0.050            | 0.002                | Diff <2x LOR     | ----      |
|                                              |                  | Cadmium, total              | 7440-43-9   | E420   | 0.0000050                         | mg/L | <0.0000050      | <0.0000050       | 0                    | Diff <2x LOR     | ----      |
|                                              |                  | Calcium, total              | 7440-70-2   | E420   | 0.050                             | mg/L | 66.2            | 65.4             | 1.29%                | 20%              | ----      |
|                                              |                  | Chromium, total             | 7440-47-3   | E420   | 0.00050                           | mg/L | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|                                              |                  | Copper, total               | 7440-50-8   | E420   | 0.00050                           | mg/L | 0.00141         | 0.00148          | 0.00007              | Diff <2x LOR     | ----      |
|                                              |                  | Iron, total                 | 7439-89-6   | E420   | 0.010                             | mg/L | 1.96            | 1.94             | 0.728%               | 20%              | ----      |
|                                              |                  | Lead, total                 | 7439-92-1   | E420   | 0.000050                          | mg/L | 0.000148        | 0.000149         | 0.000001             | Diff <2x LOR     | ----      |
|                                              |                  | Magnesium, total            | 7439-95-4   | E420   | 0.0050                            | mg/L | 36.9            | 37.1             | 0.497%               | 20%              | ----      |
|                                              |                  | Manganese, total            | 7439-96-5   | E420   | 0.00010                           | mg/L | 0.458           | 0.465            | 1.41%                | 20%              | ----      |
|                                              |                  | Selenium, total             | 7782-49-2   | E420   | 0.000050                          | mg/L | 0.000113        | 0.000132         | 0.000019             | Diff <2x LOR     | ----      |
|                                              |                  | Silver, total               | 7440-22-4   | E420   | 0.000010                          | mg/L | <0.000010       | <0.000010        | 0                    | Diff <2x LOR     | ----      |
|                                              |                  | Sodium, total               | 7440-23-5   | E420   | 0.050                             | mg/L | 47.5            | 48.9             | 2.88%                | 20%              | ----      |
|                                              |                  | Strontium, total            | 7440-24-6   | E420   | 0.00020                           | mg/L | 0.319           | 0.311            | 2.67%                | 20%              | ----      |
|                                              |                  | Uranium, total              | 7440-61-1   | E420   | 0.000010                          | mg/L | 0.000409        | 0.000410         | 0.315%               | 20%              | ----      |
|                                              |                  | Zinc, total                 | 7440-66-6   | E420   | 0.0030                            | mg/L | <0.0030         | <0.0030          | 0                    | Diff <2x LOR     | ----      |
| Aggregate Organics (QC Lot: 2089134)         |                  |                             |             |        |                                   |      |                 |                  |                      |                  |           |
| CG2508975-003                                | Anonymous        | Microcystin                 | 101043-37-2 | E576   | 0.15                              | µg/L | <0.15           | <0.15            | 0                    | Diff <2x LOR     | ----      |
| Aggregate Organics (QC Lot: 2097309)         |                  |                             |             |        |                                   |      |                 |                  |                      |                  |           |
| EO2505604-001                                | Anonymous        | Nitritotriacetic acid [NTA] | 139-13-9    | E394   | 0.40                              | mg/L | <0.40           | <0.40            | 0                    | Diff <2x LOR     | ----      |
| Volatile Organic Compounds (QC Lot: 2091293) |                  |                             |             |        |                                   |      |                 |                  |                      |                  |           |
| GP2501196-001                                | Anonymous        | Dioxane, 1,4-               | 123-91-1    | E611I  | 20                                | µg/L | <20             | <20              | 0                    | Diff <2x LOR     | ----      |
| Volatile Organic Compounds (QC Lot: 2091294) |                  |                             |             |        |                                   |      |                 |                  |                      |                  |           |
| GP2501196-001                                | Anonymous        | Benzene                     | 71-43-2     | E611F  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                              |                  | Carbon tetrachloride        | 56-23-5     | E611F  | 0.20                              | µg/L | <0.20           | <0.20            | 0                    | Diff <2x LOR     | ----      |



| Sub-Matrix: Water                                            |                                                |                                                                    |             |           | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|--------------------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------|-------------|-----------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                                         | Client sample ID                               | Analyte                                                            | CAS Number  | Method    | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| Volatile Organic Compounds (QC Lot: 2091294) - continued     |                                                |                                                                    |             |           |                                   |      |                 |                  |                      |                  |           |
| GP2501196-001                                                | Anonymous                                      | Chlorobenzene                                                      | 108-90-7    | E611F     | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                              |                                                | Dichlorobenzene, 1,2-                                              | 95-50-1     | E611F     | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                              |                                                | Dichlorobenzene, 1,4-                                              | 106-46-7    | E611F     | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                              |                                                | Dichloroethane, 1,2-                                               | 107-06-2    | E611F     | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                              |                                                | Dichloroethylene, 1,1-                                             | 75-35-4     | E611F     | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                              |                                                | Dichloromethane                                                    | 75-09-2     | E611F     | 1.0                               | µg/L | <1.0            | <1.0             | 0                    | Diff <2x LOR     | ----      |
|                                                              |                                                | Ethylbenzene                                                       | 100-41-4    | E611F     | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                              |                                                | Tetrachloroethylene                                                | 127-18-4    | E611F     | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                              |                                                | Toluene                                                            | 108-88-3    | E611F     | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                              |                                                | Trichloroethylene                                                  | 79-01-6     | E611F     | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                              |                                                | Vinyl chloride                                                     | 75-01-4     | E611F     | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                                                              |                                                | Xylene, m+p-                                                       | 179601-23-1 | E611F     | 0.40                              | µg/L | <0.40           | <0.40            | 0                    | Diff <2x LOR     | ----      |
|                                                              |                                                | Xylene, o-                                                         | 95-47-6     | E611F     | 0.30                              | µg/L | <0.30           | <0.30            | 0                    | Diff <2x LOR     | ----      |
| Disinfectant By-Products (QC Lot: 2092350)                   |                                                |                                                                    |             |           |                                   |      |                 |                  |                      |                  |           |
| CG2509114-002                                                | Anonymous                                      | Bromate                                                            | 15541-45-4  | E722A     | 1.50                              | µg/L | <1.50           | <1.50            | 0                    | Diff <2x LOR     | ----      |
| Disinfectant By-Products (QC Lot: 2092692)                   |                                                |                                                                    |             |           |                                   |      |                 |                  |                      |                  |           |
| FC2501665-002                                                | Anonymous                                      | Chlorate                                                           | 14866-68-3  | E409.CLO3 | 0.010                             | mg/L | <0.010          | <0.010           | 0                    | Diff <2x LOR     | ----      |
| Disinfectant By-Products (QC Lot: 2092693)                   |                                                |                                                                    |             |           |                                   |      |                 |                  |                      |                  |           |
| FC2501665-002                                                | Anonymous                                      | Chlorite                                                           | 14998-27-7  | E409.CLO2 | 0.010                             | mg/L | <0.010          | <0.010           | 0                    | Diff <2x LOR     | ----      |
| Per- and Polyfluoroalkyl Substances (PFAS) (QC Lot: 2096334) |                                                |                                                                    |             |           |                                   |      |                 |                  |                      |                  |           |
| GP2501197-001                                                | Treated Water Entering the Distribution System | Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid, 11-[11Cl-PF3OUdS] | 763051-92-9 | E745DW    | 0.00040                           | µg/L | <0.40 ng/L      | <0.00040         | 0                    | Diff <2x LOR     | ----      |
|                                                              |                                                | Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid, 9-[9Cl-PF3ONS]   | 756426-58-1 | E745DW    | 0.00040                           | µg/L | <0.40 ng/L      | <0.00040         | 0                    | Diff <2x LOR     | ----      |
|                                                              |                                                | Ethyl perfluorooctanesulfonamide, N-[NEtFOSA]                      | 4151-50-2   | E745DW    | 0.0020                            | µg/L | <2.0 ng/L       | <0.0020          | 0                    | Diff <2x LOR     | ----      |
|                                                              |                                                | Ethyl perfluorooctanesulfonamido acetic acid, N-[NEtFOSAA]         | 2991-50-6   | E745DW    | 0.0040                            | µg/L | <4.0 ng/L       | <0.0040          | 0                    | Diff <2x LOR     | ----      |
|                                                              |                                                | Ethyl perfluorooctanesulfonamido ethanol, N-[NEtFOSE]              | 1691-99-2   | E745DW    | 0.0020                            | µg/L | <2.0 ng/L       | <0.0020          | 0                    | Diff <2x LOR     | ----      |
|                                                              |                                                | Fluorotelomer carboxylic acid, 3:3 [3:3 FTCA]                      | 356-02-5    | E745DW    | 0.010                             | µg/L | <10 ng/L        | <0.010           | 0                    | Diff <2x LOR     | ----      |
|                                                              |                                                | Fluorotelomer carboxylic acid, 5:3 [5:3 FTCA]                      | 914637-49-3 | E745DW    | 0.0040                            | µg/L | <4.0 ng/L       | <0.0040          | 0                    | Diff <2x LOR     | ----      |
|                                                              |                                                | Fluorotelomer carboxylic acid, 7:3 [7:3 FTCA]                      | 812-70-4    | E745DW    | 0.004                             | µg/L | <4 ng/L         | <0.004           | 0                    | Diff <2x LOR     | ----      |
|                                                              |                                                |                                                                    |             |           |                                   |      |                 |                  |                      |                  |           |



| Sub-Matrix: <b>Water</b>                                                        |                                                |                                                              |             |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|---------------------------------------------------------------------------------|------------------------------------------------|--------------------------------------------------------------|-------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                                                            | Client sample ID                               | Analyte                                                      | CAS Number  | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Per- and Polyfluoroalkyl Substances (PFAS) (QC Lot: 2096334) - continued</b> |                                                |                                                              |             |        |                                   |      |                 |                  |                      |                  |           |
| GP2501197-001                                                                   | Treated Water Entering the Distribution System | Fluorotelomer sulfonic acid, 4:2 [4:2 FTS]                   | 757124-72-4 | E745DW | 0.0010                            | µg/L | <1.0 ng/L       | <0.0010          | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Fluorotelomer sulfonic acid, 6:2 [6:2 FTS]                   | 27619-97-2  | E745DW | 0.0030                            | µg/L | <3.0 ng/L       | <0.0030          | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Fluorotelomer sulfonic acid, 8:2 [8:2 FTS]                   | 39108-34-4  | E745DW | 0.0010                            | µg/L | <1.0 ng/L       | <0.0010          | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Hexafluoropropylene oxide dimer acid [HFPO-DA]               | 13252-13-6  | E745DW | 0.0040                            | µg/L | <4.0 ng/L       | <0.0040          | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Methyl perfluorooctanesulfonamide, N- [NMeFOSA]              | 31506-32-8  | E745DW | 0.0020                            | µg/L | <2.0 ng/L       | <0.0020          | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Methyl perfluorooctanesulfonamido acetic acid, N- [NMeFOSAA] | 2355-31-9   | E745DW | 0.0040                            | µg/L | <4.0 ng/L       | <0.0040          | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Methyl perfluorooctanesulfonamido ethanol, N- [NMeFOSE]      | 24448-09-7  | E745DW | 0.0020                            | µg/L | <2.0 ng/L       | <0.0020          | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Nonafluoro-3,6-dioxaheptanoic acid [NFDHA]                   | 151772-58-6 | E745DW | 0.0040                            | µg/L | <4.0 ng/L       | <0.0040          | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Perfluoro(2-ethoxyethane)sulfonic acid [PFEEA]               | 113507-82-7 | E745DW | 0.00040                           | µg/L | <0.40 ng/L      | <0.00040         | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Perfluoro-3-methoxypropanoic acid [PFMPA]                    | 377-73-1    | E745DW | 0.00040                           | µg/L | <0.40 ng/L      | <0.00040         | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Perfluoro-4-methoxybutanoic acid [PFMBA]                     | 863090-89-5 | E745DW | 0.00040                           | µg/L | <0.40 ng/L      | <0.00040         | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Perfluorobutanesulfonic acid [PFBS]                          | 375-73-5    | E745DW | 0.0010                            | µg/L | <1.0 ng/L       | <0.0010          | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Perfluorobutanoic acid [PFBA]                                | 375-22-4    | E745DW | 0.0050                            | µg/L | <5.0 ng/L       | <0.0050          | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Perfluorodecanesulfonic acid [PFDS]                          | 335-77-3    | E745DW | 0.0020                            | µg/L | <2.0 ng/L       | <0.0020          | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Perfluorodecanoic acid [PFDA]                                | 335-76-2    | E745DW | 0.0020                            | µg/L | <2.0 ng/L       | <0.0020          | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Perfluorododecanesulfonic acid [PFDoS]                       | 79780-39-5  | E745DW | 0.0020                            | µg/L | <2.0 ng/L       | <0.0020          | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Perfluorododecanoic acid [PFDoA]                             | 307-55-1    | E745DW | 0.0020                            | µg/L | <2.0 ng/L       | <0.0020          | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Perfluoroheptanesulfonic acid [PFHpS]                        | 375-92-8    | E745DW | 0.0020                            | µg/L | <2.0 ng/L       | <0.0020          | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Perfluoroheptanoic acid [PFHpA]                              | 375-85-9    | E745DW | 0.0010                            | µg/L | <1.0 ng/L       | <0.0010          | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Perfluorohexanesulfonic acid [PFHxS]                         | 355-46-4    | E745DW | 0.0020                            | µg/L | <2.0 ng/L       | <0.0020          | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Perfluorohexanoic acid [PFHxA]                               | 307-24-4    | E745DW | 0.00040                           | µg/L | <0.40 ng/L      | <0.00040         | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Perfluorononanesulfonic acid [PFNS]                          | 68259-12-1  | E745DW | 0.0020                            | µg/L | <2.0 ng/L       | <0.0020          | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Perfluorononanoic acid [PFNA]                                | 375-95-1    | E745DW | 0.0020                            | µg/L | <2.0 ng/L       | <0.0020          | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Perfluorononanoic acid, 4,8-dioxa-3H- [ADONA]                | 919005-14-4 | E745DW | 0.00040                           | µg/L | <0.40 ng/L      | <0.00040         | 0                    | Diff <2x LOR     | ----      |
|                                                                                 |                                                | Perfluorooctanesulfonamide [PFOSA]                           | 754-91-6    | E745DW | 0.0020                            | µg/L | <2.0 ng/L       | <0.0020          | 0                    | Diff <2x LOR     | ----      |



| Sub-Matrix: Water                                                        |                                                |                                              |            |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|--------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                                                     | Client sample ID                               | Analyte                                      | CAS Number | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| Per- and Polyfluoroalkyl Substances (PFAS) (QC Lot: 2096334) - continued |                                                |                                              |            |        |                                   |      |                 |                  |                      |                  |           |
| GP2501197-001                                                            | Treated Water Entering the Distribution System | Perfluorooctanesulfonic acid [PFOS]          | 1763-23-1  | E745DW | 0.0020                            | µg/L | <2.0 ng/L       | <0.0020          | 0                    | Diff <2x LOR     | ----      |
|                                                                          |                                                | Perfluorooctanoic acid [PFOA]                | 335-67-1   | E745DW | 0.0010                            | µg/L | <1.0 ng/L       | <0.0010          | 0                    | Diff <2x LOR     | ----      |
|                                                                          |                                                | Perfluoropentanesulfonic acid [PFPeS]        | 2706-91-4  | E745DW | 0.0020                            | µg/L | <2.0 ng/L       | <0.0020          | 0                    | Diff <2x LOR     | ----      |
|                                                                          |                                                | Perfluoropentanoic acid [PFPeA]              | 2706-90-3  | E745DW | 0.0020                            | µg/L | <2.0 ng/L       | <0.0020          | 0                    | Diff <2x LOR     | ----      |
|                                                                          |                                                | Perfluorotetradecanoic acid [PFTeDA]         | 376-06-7   | E745DW | 0.0010                            | µg/L | <1.0 ng/L       | <0.0010          | 0                    | Diff <2x LOR     | ----      |
|                                                                          |                                                | Perfluorotridecanoic acid [PFTrDA]           | 72629-94-8 | E745DW | 0.0020                            | µg/L | <2.0 ng/L       | <0.0020          | 0                    | Diff <2x LOR     | ----      |
|                                                                          |                                                | Perfluoroundecanoic acid [PFUnA]             | 2058-94-8  | E745DW | 0.0010                            | µg/L | <1.0 ng/L       | <0.0010          | 0                    | Diff <2x LOR     | ----      |
| Herbicides (QC Lot: 2092343)                                             |                                                |                                              |            |        |                                   |      |                 |                  |                      |                  |           |
| FC2501665-002                                                            | Anonymous                                      | Glyphosate                                   | 1071-83-6  | E716A  | 1.0                               | µg/L | <1.0            | <1.0             | 0                    | Diff <2x LOR     | ----      |
| Herbicides (QC Lot: 2092375)                                             |                                                |                                              |            |        |                                   |      |                 |                  |                      |                  |           |
| FC2501665-002                                                            | Anonymous                                      | Diquat (ion)                                 | 2764-72-9  | E723A  | 1.0                               | µg/L | <1.0            | <1.0             | 0                    | Diff <2x LOR     | ----      |
| Herbicides (QC Lot: 2092645)                                             |                                                |                                              |            |        |                                   |      |                 |                  |                      |                  |           |
| EO2505587-001                                                            | Anonymous                                      | Atrazine                                     | 1912-24-9  | E755   | 0.050                             | µg/L | <0.050          | <0.050           | 0                    | Diff <2x LOR     | ----      |
|                                                                          |                                                | Atrazine-desethyl                            | 6190-65-4  | E755   | 0.025                             | µg/L | <0.025          | <0.025           | 0                    | Diff <2x LOR     | ----      |
|                                                                          |                                                | Diuron                                       | 330-54-1   | E755   | 0.050                             | µg/L | <0.050          | <0.050           | 0                    | Diff <2x LOR     | ----      |
|                                                                          |                                                | Metolachlor                                  | 51218-45-2 | E755   | 0.025                             | µg/L | <0.025          | <0.025           | 0                    | Diff <2x LOR     | ----      |
|                                                                          |                                                | Metribuzin                                   | 21087-64-9 | E755   | 0.10                              | µg/L | <0.10           | <0.10            | 0                    | Diff <2x LOR     | ----      |
|                                                                          |                                                | Simazine                                     | 122-34-9   | E755   | 0.10                              | µg/L | <0.10           | <0.10            | 0                    | Diff <2x LOR     | ----      |
| Herbicides (QC Lot: 2094138)                                             |                                                |                                              |            |        |                                   |      |                 |                  |                      |                  |           |
| FC2501665-002                                                            | Anonymous                                      | Acetic acid, 2-methyl-4-chlorophenoxy-[MCPA] | 94-74-6    | E706A  | 0.050                             | µg/L | <0.050          | <0.050           | 0                    | Diff <2x LOR     | ----      |
|                                                                          |                                                | Bromoxynil                                   | 1689-84-5  | E706A  | 0.050                             | µg/L | <0.050          | <0.050           | 0                    | Diff <2x LOR     | ----      |
|                                                                          |                                                | Dicamba                                      | 1918-00-9  | E706A  | 0.10                              | µg/L | <0.10           | <0.10            | 0                    | Diff <2x LOR     | ----      |
|                                                                          |                                                | Dichlorophenoxyacetic acid, 2,4-[2,4-D]      | 94-75-7    | E706A  | 0.050                             | µg/L | <0.050          | <0.050           | 0                    | Diff <2x LOR     | ----      |
|                                                                          |                                                | Picloram                                     | 1918-02-1  | E706A  | 0.10                              | µg/L | <0.10           | <0.10            | 0                    | Diff <2x LOR     | ----      |
| Herbicides (QC Lot: 2096620)                                             |                                                |                                              |            |        |                                   |      |                 |                  |                      |                  |           |
| EO2505587-001                                                            | Anonymous                                      | Trifluralin                                  | 1582-09-8  | E756   | 0.10                              | µg/L | <0.10           | <0.10            | 0                    | Diff <2x LOR     | ----      |
| Insecticides (QC Lot: 2092645)                                           |                                                |                                              |            |        |                                   |      |                 |                  |                      |                  |           |
| EO2505587-001                                                            | Anonymous                                      | Carbaryl                                     | 63-25-2    | E755   | 0.050                             | µg/L | <0.050          | <0.050           | 0                    | Diff <2x LOR     | ----      |
|                                                                          |                                                | Diazinon                                     | 333-41-5   | E755   | 0.025                             | µg/L | <0.025          | <0.025           | 0                    | Diff <2x LOR     | ----      |
|                                                                          |                                                | Dimethoate                                   | 60-51-5    | E755   | 0.050                             | µg/L | <0.050          | <0.050           | 0                    | Diff <2x LOR     | ----      |
|                                                                          |                                                | Malathion                                    | 121-75-5   | E755   | 0.025                             | µg/L | <0.025          | <0.025           | 0                    | Diff <2x LOR     | ----      |



| Sub-Matrix: <b>Water</b>                   |                  |                                 |            |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|--------------------------------------------|------------------|---------------------------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                       | Client sample ID | Analyte                         | CAS Number | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| Insecticides (QC Lot: 2092645) - continued |                  |                                 |            |        |                                   |      |                 |                  |                      |                  |           |
| EO2505587-001                              | Anonymous        | Omethoate                       | 1113-02-6  | E755   | 0.050                             | µg/L | <0.050          | <0.050           | 0                    | Diff <2x LOR     | ----      |
|                                            |                  | Phorate                         | 298-02-2   | E755   | 0.25                              | µg/L | <0.25           | <0.25            | 0                    | Diff <2x LOR     | ----      |
| Insecticides (QC Lot: 2096620)             |                  |                                 |            |        |                                   |      |                 |                  |                      |                  |           |
| EO2505587-001                              | Anonymous        | Chlorpyrifos                    | 2921-88-2  | E756   | 0.10                              | µg/L | <0.10           | <0.10            | 0                    | Diff <2x LOR     | ----      |
| Nitrosamines (QC Lot: 2096346)             |                  |                                 |            |        |                                   |      |                 |                  |                      |                  |           |
| CG2508815-001                              | Anonymous        | Nitrosodimethylamine, N- [NDMA] | 62-75-9    | E725A  | 0.034                             | µg/L | <0.034          | <0.034           | 0                    | Diff <2x LOR     | ----      |



## Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Water

| Analyte                                            | CAS Number | Method   | LOR    | Unit  | Result  | Qualifier |
|----------------------------------------------------|------------|----------|--------|-------|---------|-----------|
| <b>Physical Tests (QCLot: 2089197)</b>             |            |          |        |       |         |           |
| Colour, true                                       | ----       | E329     | 5      | CU    | <5.0    | ----      |
| <b>Physical Tests (QCLot: 2090089)</b>             |            |          |        |       |         |           |
| Absorbance, UV (@ 254nm)                           | ----       | E404     | 0.005  | AU/cm | <0.0050 | ----      |
| <b>Physical Tests (QCLot: 2090991)</b>             |            |          |        |       |         |           |
| Turbidity                                          | ----       | E121     | 0.1    | NTU   | <0.10   | ----      |
| <b>Physical Tests (QCLot: 2092895)</b>             |            |          |        |       |         |           |
| Solids, total dissolved [TDS]                      | ----       | E162     | 10     | mg/L  | <10     | ----      |
| <b>Physical Tests (QCLot: 2092921)</b>             |            |          |        |       |         |           |
| Conductivity                                       | ----       | E100     | 1      | µS/cm | <1.0    | ----      |
| <b>Anions and Nutrients (QCLot: 2086955)</b>       |            |          |        |       |         |           |
| Fluoride                                           | 16984-48-8 | E235.F   | 0.02   | mg/L  | <0.020  | ----      |
| <b>Anions and Nutrients (QCLot: 2086956)</b>       |            |          |        |       |         |           |
| Nitrite (as N)                                     | 14797-65-0 | E235.NO2 | 0.01   | mg/L  | <0.010  | ----      |
| <b>Anions and Nutrients (QCLot: 2086957)</b>       |            |          |        |       |         |           |
| Sulfate (as SO4)                                   | 14808-79-8 | E235.SO4 | 0.3    | mg/L  | <0.30   | ----      |
| <b>Anions and Nutrients (QCLot: 2086958)</b>       |            |          |        |       |         |           |
| Chloride                                           | 16887-00-6 | E235.Cl  | 0.5    | mg/L  | <0.50   | ----      |
| <b>Anions and Nutrients (QCLot: 2086959)</b>       |            |          |        |       |         |           |
| Nitrate (as N)                                     | 14797-55-8 | E235.NO3 | 0.02   | mg/L  | <0.020  | ----      |
| <b>Anions and Nutrients (QCLot: 2087941)</b>       |            |          |        |       |         |           |
| Ammonia, total (as N)                              | 7664-41-7  | E298     | 0.005  | mg/L  | <0.0050 | ----      |
| <b>Cyanides (QCLot: 2092550)</b>                   |            |          |        |       |         |           |
| Cyanide, strong acid dissociable (Total)           | ----       | E333     | 0.002  | mg/L  | <0.0020 | ----      |
| <b>Organic / Inorganic Carbon (QCLot: 2099329)</b> |            |          |        |       |         |           |
| Carbon, total organic [TOC]                        | ----       | E355-L   | 0.5    | mg/L  | <0.50   | ----      |
| <b>Inorganics (QCLot: 2088072)</b>                 |            |          |        |       |         |           |
| Chlorine, total                                    | 7782-50-5  | E326-H   | 0.1    | mg/L  | <0.10   | ----      |
| <b>Inorganics (QCLot: 2088075)</b>                 |            |          |        |       |         |           |
| Chlorine, free                                     | 7782-50-5  | E327-H   | 0.1    | mg/L  | <0.10   | ----      |
| <b>Total Sulfides (QCLot: 2087738)</b>             |            |          |        |       |         |           |
| Sulfide, total (as S)                              | 18496-25-8 | E395     | 0.0015 | mg/L  | <0.0015 | ----      |
| <b>Total Metals (QCLot: 2089249)</b>               |            |          |        |       |         |           |



Sub-Matrix: Water

| Analyte                                     | CAS Number  | Method | LOR      | Unit | Result     | Qualifier |
|---------------------------------------------|-------------|--------|----------|------|------------|-----------|
| Total Metals (QCLot: 2089249) - continued   |             |        |          |      |            |           |
| Mercury, total                              | 7439-97-6   | E508   | 0.000005 | mg/L | <0.0000050 | ----      |
| Total Metals (QCLot: 2089254)               |             |        |          |      |            |           |
| Aluminum, total                             | 7429-90-5   | E420   | 0.003    | mg/L | <0.0030    | ----      |
| Antimony, total                             | 7440-36-0   | E420   | 0.0001   | mg/L | <0.00010   | ----      |
| Arsenic, total                              | 7440-38-2   | E420   | 0.0001   | mg/L | <0.00010   | ----      |
| Barium, total                               | 7440-39-3   | E420   | 0.0001   | mg/L | <0.00010   | ----      |
| Boron, total                                | 7440-42-8   | E420   | 0.01     | mg/L | <0.010     | ----      |
| Cadmium, total                              | 7440-43-9   | E420   | 0.000005 | mg/L | <0.0000050 | ----      |
| Calcium, total                              | 7440-70-2   | E420   | 0.05     | mg/L | <0.050     | ----      |
| Chromium, total                             | 7440-47-3   | E420   | 0.0005   | mg/L | <0.00050   | ----      |
| Copper, total                               | 7440-50-8   | E420   | 0.0005   | mg/L | <0.00050   | ----      |
| Iron, total                                 | 7439-89-6   | E420   | 0.01     | mg/L | <0.010     | ----      |
| Lead, total                                 | 7439-92-1   | E420   | 0.00005  | mg/L | <0.000050  | ----      |
| Magnesium, total                            | 7439-95-4   | E420   | 0.005    | mg/L | <0.0050    | ----      |
| Manganese, total                            | 7439-96-5   | E420   | 0.0001   | mg/L | <0.00010   | ----      |
| Selenium, total                             | 7782-49-2   | E420   | 0.00005  | mg/L | <0.000050  | ----      |
| Silver, total                               | 7440-22-4   | E420   | 0.00001  | mg/L | <0.000010  | ----      |
| Sodium, total                               | 7440-23-5   | E420   | 0.05     | mg/L | <0.050     | ----      |
| Strontium, total                            | 7440-24-6   | E420   | 0.0002   | mg/L | <0.00020   | ----      |
| Uranium, total                              | 7440-61-1   | E420   | 0.00001  | mg/L | <0.000010  | ----      |
| Zinc, total                                 | 7440-66-6   | E420   | 0.003    | mg/L | <0.0030    | ----      |
| Aggregate Organics (QCLot: 2089134)         |             |        |          |      |            |           |
| Microcystin                                 | 101043-37-2 | E576   | 0.15     | µg/L | <0.15      | ----      |
| Aggregate Organics (QCLot: 2097309)         |             |        |          |      |            |           |
| Nitritotriacetic acid [NTA]                 | 139-13-9    | E394   | 0.4      | mg/L | <0.40      | ----      |
| Volatile Organic Compounds (QCLot: 2091293) |             |        |          |      |            |           |
| Dioxane, 1,4-                               | 123-91-1    | E611I  | 20       | µg/L | <20        | ----      |
| Volatile Organic Compounds (QCLot: 2091294) |             |        |          |      |            |           |
| Benzene                                     | 71-43-2     | E611F  | 0.5      | µg/L | <0.50      | ----      |
| Carbon tetrachloride                        | 56-23-5     | E611F  | 0.2      | µg/L | <0.20      | ----      |
| Chlorobenzene                               | 108-90-7    | E611F  | 0.5      | µg/L | <0.50      | ----      |
| Dichlorobenzene, 1,2-                       | 95-50-1     | E611F  | 0.5      | µg/L | <0.50      | ----      |
| Dichlorobenzene, 1,4-                       | 106-46-7    | E611F  | 0.5      | µg/L | <0.50      | ----      |
| Dichloroethane, 1,2-                        | 107-06-2    | E611F  | 0.5      | µg/L | <0.50      | ----      |
| Dichloroethylene, 1,1-                      | 75-35-4     | E611F  | 0.5      | µg/L | <0.50      | ----      |



Sub-Matrix: **Water**

| Analyte                                                            | CAS Number  | Method    | LOR    | Unit | Result   | Qualifier |
|--------------------------------------------------------------------|-------------|-----------|--------|------|----------|-----------|
| <b>Volatile Organic Compounds (QCLot: 2091294) - continued</b>     |             |           |        |      |          |           |
| Dichloromethane                                                    | 75-09-2     | E611F     | 1      | µg/L | <1.0     | ----      |
| Ethylbenzene                                                       | 100-41-4    | E611F     | 0.5    | µg/L | <0.50    | ----      |
| Tetrachloroethylene                                                | 127-18-4    | E611F     | 0.5    | µg/L | <0.50    | ----      |
| Toluene                                                            | 108-88-3    | E611F     | 0.5    | µg/L | <0.50    | ----      |
| Trichloroethylene                                                  | 79-01-6     | E611F     | 0.5    | µg/L | <0.50    | ----      |
| Vinyl chloride                                                     | 75-01-4     | E611F     | 0.5    | µg/L | <0.50    | ----      |
| Xylene, m+p-                                                       | 179601-23-1 | E611F     | 0.4    | µg/L | <0.40    | ----      |
| Xylene, o-                                                         | 95-47-6     | E611F     | 0.3    | µg/L | <0.30    | ----      |
| <b>Polycyclic Aromatic Hydrocarbons (QCLot: 2093299)</b>           |             |           |        |      |          |           |
| Benzo(a)pyrene                                                     | 50-32-8     | E641A     | 0.005  | µg/L | <0.0050  | ----      |
| <b>Disinfectant By-Products (QCLot: 2092350)</b>                   |             |           |        |      |          |           |
| Bromate                                                            | 15541-45-4  | E722A     | 0.3    | µg/L | <0.30    | ----      |
| <b>Disinfectant By-Products (QCLot: 2092692)</b>                   |             |           |        |      |          |           |
| Chlorate                                                           | 14866-68-3  | E409.CLO3 | 0.01   | mg/L | <0.010   | ----      |
| <b>Disinfectant By-Products (QCLot: 2092693)</b>                   |             |           |        |      |          |           |
| Chlorite                                                           | 14998-27-7  | E409.CLO2 | 0.01   | mg/L | <0.010   | ----      |
| <b>Per- and Polyfluoroalkyl Substances (PFAS) (QCLot: 2096334)</b> |             |           |        |      |          |           |
| Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid, 11-[11Cl-PF3OUdS] | 763051-92-9 | E745DW    | 0.0004 | µg/L | <0.00040 | ----      |
| Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid, 9-[9Cl-PF3ONS]   | 756426-58-1 | E745DW    | 0.0004 | µg/L | <0.00040 | ----      |
| Ethyl perfluorooctanesulfonamide, N- [NEtFOSA]                     | 4151-50-2   | E745DW    | 0.002  | µg/L | <0.0020  | ----      |
| Ethyl perfluorooctanesulfonamidoacetic acid, N- [NEtFOSAA]         | 2991-50-6   | E745DW    | 0.004  | µg/L | <0.0040  | ----      |
| Ethyl perfluorooctanesulfonamidoethanol, N- [NEtFOSE]              | 1691-99-2   | E745DW    | 0.002  | µg/L | <0.0020  | ----      |
| Fluorotelomer carboxylic acid, 3:3 [3:3 FTCA]                      | 356-02-5    | E745DW    | 0.01   | µg/L | <0.010   | ----      |
| Fluorotelomer carboxylic acid, 5:3 [5:3 FTCA]                      | 914637-49-3 | E745DW    | 0.004  | µg/L | <0.0040  | ----      |
| Fluorotelomer carboxylic acid, 7:3 [7:3 FTCA]                      | 812-70-4    | E745DW    | 0.004  | µg/L | <0.004   | ----      |
| Fluorotelomer sulfonic acid, 4:2 [4:2 FTS]                         | 757124-72-4 | E745DW    | 0.001  | µg/L | <0.0010  | ----      |
| Fluorotelomer sulfonic acid, 6:2 [6:2 FTS]                         | 27619-97-2  | E745DW    | 0.003  | µg/L | <0.0030  | ----      |
| Fluorotelomer sulfonic acid, 8:2 [8:2 FTS]                         | 39108-34-4  | E745DW    | 0.001  | µg/L | <0.0010  | ----      |
| Hexafluoropropylene oxide dimer acid [HFPO-DA]                     | 13252-13-6  | E745DW    | 0.004  | µg/L | <0.0040  | ----      |
| Methyl perfluorooctanesulfonamide, N- [NMeFOSA]                    | 31506-32-8  | E745DW    | 0.002  | µg/L | <0.0020  | ----      |
| Methyl perfluorooctanesulfonamidoacetic acid, N- [NMeFOSAA]        | 2355-31-9   | E745DW    | 0.004  | µg/L | <0.0040  | ----      |
| Methyl perfluorooctanesulfonamidoethanol, N- [NMeFOSE]             | 24448-09-7  | E745DW    | 0.002  | µg/L | <0.0020  | ----      |
| Nonafluoro-3,6-dioxaheptanoic acid [NFDHA]                         | 151772-58-6 | E745DW    | 0.004  | µg/L | <0.0040  | ----      |





Sub-Matrix: **Water**

| Analyte                                                                        | CAS Number  | Method | LOR    | Unit | Result   | Qualifier |
|--------------------------------------------------------------------------------|-------------|--------|--------|------|----------|-----------|
| <b>Per- and Polyfluoroalkyl Substances (PFAS) (QCLot: 2096334) - continued</b> |             |        |        |      |          |           |
| Perfluoro(2-ethoxyethane)sulfonic acid [PFEEA]                                 | 113507-82-7 | E745DW | 0.0004 | µg/L | <0.00040 | ----      |
| Perfluoro-3-methoxypropanoic acid [PFMPA]                                      | 377-73-1    | E745DW | 0.0004 | µg/L | <0.00040 | ----      |
| Perfluoro-4-methoxybutanoic acid [PFMBA]                                       | 863090-89-5 | E745DW | 0.0004 | µg/L | <0.00040 | ----      |
| Perfluorobutanesulfonic acid [PFBS]                                            | 375-73-5    | E745DW | 0.001  | µg/L | <0.0010  | ----      |
| Perfluorobutanoic acid [PFBA]                                                  | 375-22-4    | E745DW | 0.002  | µg/L | <0.0020  | ----      |
| Perfluorodecanesulfonic acid [PFDS]                                            | 335-77-3    | E745DW | 0.002  | µg/L | <0.0020  | ----      |
| Perfluorodecanoic acid [PFDA]                                                  | 335-76-2    | E745DW | 0.002  | µg/L | <0.0020  | ----      |
| Perfluorododecanesulfonic acid [PFDoS]                                         | 79780-39-5  | E745DW | 0.002  | µg/L | <0.0020  | ----      |
| Perfluorododecanoic acid [PFDoA]                                               | 307-55-1    | E745DW | 0.002  | µg/L | <0.0020  | ----      |
| Perfluoroheptanesulfonic acid [PFHpS]                                          | 375-92-8    | E745DW | 0.002  | µg/L | <0.0020  | ----      |
| Perfluoroheptanoic acid [PFHpA]                                                | 375-85-9    | E745DW | 0.001  | µg/L | <0.0010  | ----      |
| Perfluorohexanesulfonic acid [PFHxS]                                           | 355-46-4    | E745DW | 0.002  | µg/L | <0.0020  | ----      |
| Perfluorohexanoic acid [PFHxA]                                                 | 307-24-4    | E745DW | 0.0004 | µg/L | <0.00040 | ----      |
| Perfluorononanesulfonic acid [PFNS]                                            | 68259-12-1  | E745DW | 0.002  | µg/L | <0.0020  | ----      |
| Perfluorononanoic acid [PFNA]                                                  | 375-95-1    | E745DW | 0.002  | µg/L | <0.0020  | ----      |
| Perfluorononanoic acid, 4,8-dioxa-3H- [ADONA]                                  | 919005-14-4 | E745DW | 0.0004 | µg/L | <0.00040 | ----      |
| Perfluorooctanesulfonamide [PFOSA]                                             | 754-91-6    | E745DW | 0.002  | µg/L | <0.0020  | ----      |
| Perfluorooctanesulfonic acid [PFOS]                                            | 1763-23-1   | E745DW | 0.002  | µg/L | <0.0020  | ----      |
| Perfluorooctanoic acid [PFOA]                                                  | 335-67-1    | E745DW | 0.001  | µg/L | <0.0010  | ----      |
| Perfluoropentanesulfonic acid [PFPeS]                                          | 2706-91-4   | E745DW | 0.002  | µg/L | <0.0020  | ----      |
| Perfluoropentanoic acid [PFPeA]                                                | 2706-90-3   | E745DW | 0.002  | µg/L | <0.0020  | ----      |
| Perfluorotetradecanoic acid [PFTeDA]                                           | 376-06-7    | E745DW | 0.001  | µg/L | <0.0010  | ----      |
| Perfluorotridecanoic acid [PFTTrDA]                                            | 72629-94-8  | E745DW | 0.002  | µg/L | <0.0020  | ----      |
| Perfluoroundecanoic acid [PFUnA]                                               | 2058-94-8   | E745DW | 0.001  | µg/L | <0.0010  | ----      |
| <b>Chlorinated Phenolics (QCLot: 2092247)</b>                                  |             |        |        |      |          |           |
| Dichlorophenol, 2,4-                                                           | 120-83-2    | E625   | 0.2    | µg/L | <0.20    | ----      |
| Pentachlorophenol [PCP]                                                        | 87-86-5     | E625   | 0.5    | µg/L | <0.50    | ----      |
| Tetrachlorophenol, 2,3,4,6-                                                    | 58-90-2     | E625   | 0.5    | µg/L | <0.50    | ----      |
| Trichlorophenol, 2,4,6-                                                        | 88-06-2     | E625   | 0.2    | µg/L | <0.20    | ----      |
| <b>Organochlorine Pesticides (QCLot: 2093165)</b>                              |             |        |        |      |          |           |
| Methoxychlor                                                                   | 72-43-5     | E660F  | 0.008  | µg/L | <0.0080  | ----      |
| <b>Herbicides (QCLot: 2092343)</b>                                             |             |        |        |      |          |           |
| Glyphosate                                                                     | 1071-83-6   | E716A  | 1      | µg/L | <1.0     | ----      |
| <b>Herbicides (QCLot: 2092375)</b>                                             |             |        |        |      |          |           |
| Diquat (ion)                                                                   | 2764-72-9   | E723A  | 1      | µg/L | <1.0     | ----      |



Sub-Matrix: **Water**

| Analyte                                       | CAS Number | Method | LOR   | Unit | Result | Qualifier |
|-----------------------------------------------|------------|--------|-------|------|--------|-----------|
| <b>Herbicides (QCLot: 2092645)</b>            |            |        |       |      |        |           |
| Atrazine                                      | 1912-24-9  | E755   | 0.05  | µg/L | <0.050 | ----      |
| Atrazine-desethyl                             | 6190-65-4  | E755   | 0.025 | µg/L | <0.025 | ----      |
| Diuron                                        | 330-54-1   | E755   | 0.05  | µg/L | <0.050 | ----      |
| Metolachlor                                   | 51218-45-2 | E755   | 0.025 | µg/L | <0.025 | ----      |
| Metribuzin                                    | 21087-64-9 | E755   | 0.1   | µg/L | <0.10  | ----      |
| Simazine                                      | 122-34-9   | E755   | 0.1   | µg/L | <0.10  | ----      |
| <b>Herbicides (QCLot: 2094138)</b>            |            |        |       |      |        |           |
| Acetic acid, 2-methyl-4-chlorophenoxy- [MCPA] | 94-74-6    | E706A  | 0.05  | µg/L | <0.050 | ----      |
| Bromoxynil                                    | 1689-84-5  | E706A  | 0.05  | µg/L | <0.050 | ----      |
| Dicamba                                       | 1918-00-9  | E706A  | 0.1   | µg/L | <0.10  | ----      |
| Dichlorophenoxyacetic acid, 2,4- [2,4-D]      | 94-75-7    | E706A  | 0.05  | µg/L | <0.050 | ----      |
| Picloram                                      | 1918-02-1  | E706A  | 0.1   | µg/L | <0.10  | ----      |
| <b>Herbicides (QCLot: 2096620)</b>            |            |        |       |      |        |           |
| Trifluralin                                   | 1582-09-8  | E756   | 0.1   | µg/L | <0.10  | ----      |
| <b>Insecticides (QCLot: 2092645)</b>          |            |        |       |      |        |           |
| Carbaryl                                      | 63-25-2    | E755   | 0.05  | µg/L | <0.050 | ----      |
| Diazinon                                      | 333-41-5   | E755   | 0.025 | µg/L | <0.025 | ----      |
| Dimethoate                                    | 60-51-5    | E755   | 0.05  | µg/L | <0.050 | ----      |
| Malathion                                     | 121-75-5   | E755   | 0.025 | µg/L | <0.025 | ----      |
| Omethoate                                     | 1113-02-6  | E755   | 0.05  | µg/L | <0.050 | ----      |
| Phorate                                       | 298-02-2   | E755   | 0.25  | µg/L | <0.25  | ----      |
| <b>Insecticides (QCLot: 2096620)</b>          |            |        |       |      |        |           |
| Chlorpyrifos                                  | 2921-88-2  | E756   | 0.1   | µg/L | <0.10  | ----      |
| <b>Nitrosamines (QCLot: 2096346)</b>          |            |        |       |      |        |           |
| Nitrosodimethylamine, N- [NDMA]               | 62-75-9    | E725A  | 0.034 | µg/L | <0.034 | ----      |



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Water

|                                             |            |          |       |          | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|---------------------------------------------|------------|----------|-------|----------|----------------------------------------|--------------|---------------------|------|-----------|
|                                             |            |          |       |          | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                                     | CAS Number | Method   | LOR   | Unit     | Target Concentration                   | LCS          | Low                 | High | Qualifier |
| Physical Tests (QCLot: 2089197)             |            |          |       |          |                                        |              |                     |      |           |
| Colour, true                                | ----       | E329     | 5     | CU       | 100 CU                                 | 98.0         | 85.0                | 115  | ----      |
| Physical Tests (QCLot: 2090089)             |            |          |       |          |                                        |              |                     |      |           |
| Absorbance, UV (@ 254nm)                    | ----       | E404     | 0.005 | AU/cm    | 0.16 AU/cm                             | 100          | 70.0                | 130  | ----      |
| Physical Tests (QCLot: 2090991)             |            |          |       |          |                                        |              |                     |      |           |
| Turbidity                                   | ----       | E121     | 0.1   | NTU      | 200 NTU                                | 96.1         | 85.0                | 115  | ----      |
| Physical Tests (QCLot: 2092895)             |            |          |       |          |                                        |              |                     |      |           |
| Solids, total dissolved [TDS]               | ----       | E162     | 10    | mg/L     | 1000 mg/L                              | 94.7         | 85.0                | 115  | ----      |
| Physical Tests (QCLot: 2092920)             |            |          |       |          |                                        |              |                     |      |           |
| pH                                          | ----       | E108     | ----  | pH units | 6 pH units                             | 101          | 97.0                | 103  | ----      |
| Physical Tests (QCLot: 2092921)             |            |          |       |          |                                        |              |                     |      |           |
| Conductivity                                | ----       | E100     | 1     | µS/cm    | 1410 µS/cm                             | 103          | 90.0                | 110  | ----      |
| Anions and Nutrients (QCLot: 2086955)       |            |          |       |          |                                        |              |                     |      |           |
| Fluoride                                    | 16984-48-8 | E235.F   | 0.02  | mg/L     | 1 mg/L                                 | 94.6         | 90.0                | 110  | ----      |
| Anions and Nutrients (QCLot: 2086956)       |            |          |       |          |                                        |              |                     |      |           |
| Nitrite (as N)                              | 14797-65-0 | E235.NO2 | 0.01  | mg/L     | 0.5 mg/L                               | 93.9         | 90.0                | 110  | ----      |
| Anions and Nutrients (QCLot: 2086957)       |            |          |       |          |                                        |              |                     |      |           |
| Sulfate (as SO4)                            | 14808-79-8 | E235.SO4 | 0.3   | mg/L     | 100 mg/L                               | 93.9         | 90.0                | 110  | ----      |
| Anions and Nutrients (QCLot: 2086958)       |            |          |       |          |                                        |              |                     |      |           |
| Chloride                                    | 16887-00-6 | E235.Cl  | 0.5   | mg/L     | 100 mg/L                               | 94.8         | 90.0                | 110  | ----      |
| Anions and Nutrients (QCLot: 2086959)       |            |          |       |          |                                        |              |                     |      |           |
| Nitrate (as N)                              | 14797-55-8 | E235.NO3 | 0.02  | mg/L     | 2.5 mg/L                               | 92.8         | 90.0                | 110  | ----      |
| Anions and Nutrients (QCLot: 2087941)       |            |          |       |          |                                        |              |                     |      |           |
| Ammonia, total (as N)                       | 7664-41-7  | E298     | 0.005 | mg/L     | 0.2 mg/L                               | 100          | 85.0                | 115  | ----      |
| Cyanides (QCLot: 2092550)                   |            |          |       |          |                                        |              |                     |      |           |
| Cyanide, strong acid dissociable (Total)    | ----       | E333     | 0.002 | mg/L     | 0.25 mg/L                              | 91.8         | 80.0                | 120  | ----      |
| Organic / Inorganic Carbon (QCLot: 2099329) |            |          |       |          |                                        |              |                     |      |           |
| Carbon, total organic [TOC]                 | ----       | E355-L   | 0.5   | mg/L     | 8.57 mg/L                              | 103          | 80.0                | 120  | ----      |
| Inorganics (QCLot: 2088072)                 |            |          |       |          |                                        |              |                     |      |           |



| Sub-Matrix: Water                           |             |        |          |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|---------------------------------------------|-------------|--------|----------|------|----------------------------------------|--------------|---------------------|------|-----------|
|                                             |             |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      | Qualifier |
|                                             |             |        |          |      | Target Concentration                   | LCS          | Low                 | High |           |
| Analyte                                     | CAS Number  | Method | LOR      | Unit | Target Concentration                   | LCS          | Low                 | High | Qualifier |
| Inorganics (QCLot: 2088072) - continued     |             |        |          |      |                                        |              |                     |      |           |
| Chlorine, total                             | 7782-50-5   | E326-H | 0.1      | mg/L | 0.146 mg/L                             | 101          | 75.0                | 125  | ----      |
| Inorganics (QCLot: 2088075)                 |             |        |          |      |                                        |              |                     |      |           |
| Chlorine, free                              | 7782-50-5   | E327-H | 0.1      | mg/L | 0.146 mg/L                             | 101          | 75.0                | 125  | ----      |
| Total Sulfides (QCLot: 2087738)             |             |        |          |      |                                        |              |                     |      |           |
| Sulfide, total (as S)                       | 18496-25-8  | E395   | 0.0015   | mg/L | 0.08 mg/L                              | 105          | 80.0                | 120  | ----      |
| Total Metals (QCLot: 2089249)               |             |        |          |      |                                        |              |                     |      |           |
| Mercury, total                              | 7439-97-6   | E508   | 0.000005 | mg/L | 0 mg/L                                 | 97.8         | 80.0                | 120  | ----      |
| Total Metals (QCLot: 2089254)               |             |        |          |      |                                        |              |                     |      |           |
| Aluminum, total                             | 7429-90-5   | E420   | 0.003    | mg/L | 2 mg/L                                 | 101          | 80.0                | 120  | ----      |
| Antimony, total                             | 7440-36-0   | E420   | 0.0001   | mg/L | 1 mg/L                                 | 96.4         | 80.0                | 120  | ----      |
| Arsenic, total                              | 7440-38-2   | E420   | 0.0001   | mg/L | 1 mg/L                                 | 100          | 80.0                | 120  | ----      |
| Barium, total                               | 7440-39-3   | E420   | 0.0001   | mg/L | 0.25 mg/L                              | 97.3         | 80.0                | 120  | ----      |
| Boron, total                                | 7440-42-8   | E420   | 0.01     | mg/L | 1 mg/L                                 | 99.1         | 80.0                | 120  | ----      |
| Cadmium, total                              | 7440-43-9   | E420   | 0.000005 | mg/L | 0.1 mg/L                               | 98.9         | 80.0                | 120  | ----      |
| Calcium, total                              | 7440-70-2   | E420   | 0.05     | mg/L | 50 mg/L                                | 101          | 80.0                | 120  | ----      |
| Chromium, total                             | 7440-47-3   | E420   | 0.0005   | mg/L | 0.25 mg/L                              | 99.3         | 80.0                | 120  | ----      |
| Copper, total                               | 7440-50-8   | E420   | 0.0005   | mg/L | 0.25 mg/L                              | 98.7         | 80.0                | 120  | ----      |
| Iron, total                                 | 7439-89-6   | E420   | 0.01     | mg/L | 1 mg/L                                 | 97.0         | 80.0                | 120  | ----      |
| Lead, total                                 | 7439-92-1   | E420   | 0.00005  | mg/L | 0.5 mg/L                               | 101          | 80.0                | 120  | ----      |
| Magnesium, total                            | 7439-95-4   | E420   | 0.005    | mg/L | 50 mg/L                                | 98.4         | 80.0                | 120  | ----      |
| Manganese, total                            | 7439-96-5   | E420   | 0.0001   | mg/L | 0.25 mg/L                              | 98.4         | 80.0                | 120  | ----      |
| Selenium, total                             | 7782-49-2   | E420   | 0.00005  | mg/L | 1 mg/L                                 | 96.2         | 80.0                | 120  | ----      |
| Silver, total                               | 7440-22-4   | E420   | 0.00001  | mg/L | 0.1 mg/L                               | 95.0         | 80.0                | 120  | ----      |
| Sodium, total                               | 7440-23-5   | E420   | 0.05     | mg/L | 50 mg/L                                | 99.5         | 80.0                | 120  | ----      |
| Strontium, total                            | 7440-24-6   | E420   | 0.0002   | mg/L | 0.25 mg/L                              | 101          | 80.0                | 120  | ----      |
| Uranium, total                              | 7440-61-1   | E420   | 0.00001  | mg/L | 0.005 mg/L                             | 100          | 80.0                | 120  | ----      |
| Zinc, total                                 | 7440-66-6   | E420   | 0.003    | mg/L | 0.5 mg/L                               | 91.2         | 80.0                | 120  | ----      |
| Aggregate Organics (QCLot: 2089134)         |             |        |          |      |                                        |              |                     |      |           |
| Microcystin                                 | 101043-37-2 | E576   | 0.15     | µg/L | 0.5 µg/L                               | 68.4         | 60.0                | 140  | ----      |
| Aggregate Organics (QCLot: 2097309)         |             |        |          |      |                                        |              |                     |      |           |
| Nitritotriacetic acid [NTA]                 | 139-13-9    | E394   | 0.4      | mg/L | 1 mg/L                                 | 124          | 75.0                | 125  | ----      |
| Volatile Organic Compounds (QCLot: 2091293) |             |        |          |      |                                        |              |                     |      |           |



| Sub-Matrix: Water                                                   |             |           |        |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|---------------------------------------------------------------------|-------------|-----------|--------|------|----------------------------------------|--------------|---------------------|------|-----------|
|                                                                     |             |           |        |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                                                             | CAS Number  | Method    | LOR    | Unit | Target Concentration                   | LCS          | Low                 | High | Qualifier |
| Volatile Organic Compounds (QCLot: 2091293) - continued             |             |           |        |      |                                        |              |                     |      |           |
| Dioxane, 1,4-                                                       | 123-91-1    | E611I     | 20     | µg/L | 100 µg/L                               | 94.6         | 70.0                | 130  | ----      |
| Volatile Organic Compounds (QCLot: 2091294)                         |             |           |        |      |                                        |              |                     |      |           |
| Benzene                                                             | 71-43-2     | E611F     | 0.5    | µg/L | 100 µg/L                               | 99.0         | 70.0                | 130  | ----      |
| Carbon tetrachloride                                                | 56-23-5     | E611F     | 0.2    | µg/L | 100 µg/L                               | 91.6         | 70.0                | 130  | ----      |
| Chlorobenzene                                                       | 108-90-7    | E611F     | 0.5    | µg/L | 100 µg/L                               | 89.7         | 70.0                | 130  | ----      |
| Dichlorobenzene, 1,2-                                               | 95-50-1     | E611F     | 0.5    | µg/L | 100 µg/L                               | 94.0         | 70.0                | 130  | ----      |
| Dichlorobenzene, 1,4-                                               | 106-46-7    | E611F     | 0.5    | µg/L | 100 µg/L                               | 92.7         | 70.0                | 130  | ----      |
| Dichloroethane, 1,2-                                                | 107-06-2    | E611F     | 0.5    | µg/L | 100 µg/L                               | 100          | 70.0                | 130  | ----      |
| Dichloroethylene, 1,1-                                              | 75-35-4     | E611F     | 0.5    | µg/L | 100 µg/L                               | 86.4         | 70.0                | 130  | ----      |
| Dichloromethane                                                     | 75-09-2     | E611F     | 1      | µg/L | 100 µg/L                               | 89.6         | 70.0                | 130  | ----      |
| Ethylbenzene                                                        | 100-41-4    | E611F     | 0.5    | µg/L | 100 µg/L                               | 89.7         | 70.0                | 130  | ----      |
| Tetrachloroethylene                                                 | 127-18-4    | E611F     | 0.5    | µg/L | 100 µg/L                               | 86.5         | 70.0                | 130  | ----      |
| Toluene                                                             | 108-88-3    | E611F     | 0.5    | µg/L | 100 µg/L                               | 88.0         | 70.0                | 130  | ----      |
| Trichloroethylene                                                   | 79-01-6     | E611F     | 0.5    | µg/L | 100 µg/L                               | 90.5         | 70.0                | 130  | ----      |
| Vinyl chloride                                                      | 75-01-4     | E611F     | 0.5    | µg/L | 100 µg/L                               | 77.6         | 60.0                | 140  | ----      |
| Xylene, m+p-                                                        | 179601-23-1 | E611F     | 0.4    | µg/L | 200 µg/L                               | 92.5         | 70.0                | 130  | ----      |
| Xylene, o-                                                          | 95-47-6     | E611F     | 0.3    | µg/L | 100 µg/L                               | 92.8         | 70.0                | 130  | ----      |
| Polycyclic Aromatic Hydrocarbons (QCLot: 2093299)                   |             |           |        |      |                                        |              |                     |      |           |
| Benzo(a)pyrene                                                      | 50-32-8     | E641A     | 0.005  | µg/L | 0.5 µg/L                               | 85.1         | 60.0                | 130  | ----      |
| Disinfectant By-Products (QCLot: 2092350)                           |             |           |        |      |                                        |              |                     |      |           |
| Bromate                                                             | 15541-45-4  | E722A     | 0.3    | µg/L | 4 µg/L                                 | 98.8         | 70.0                | 130  | ----      |
| Disinfectant By-Products (QCLot: 2092692)                           |             |           |        |      |                                        |              |                     |      |           |
| Chlorate                                                            | 14866-68-3  | E409.CLO3 | 0.01   | mg/L | 1 mg/L                                 | 104          | 85.0                | 115  | ----      |
| Disinfectant By-Products (QCLot: 2092693)                           |             |           |        |      |                                        |              |                     |      |           |
| Chlorite                                                            | 14998-27-7  | E409.CLO2 | 0.01   | mg/L | 1 mg/L                                 | 106          | 85.0                | 115  | ----      |
| Per- and Polyfluoroalkyl Substances (PFAS) (QCLot: 2096334)         |             |           |        |      |                                        |              |                     |      |           |
| Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid, 11-[11CI-PF3OUdS] | 763051-92-9 | E745DW    | 0.0004 | µg/L | 0.002 µg/L                             | 89.6         | 70.0                | 130  | ----      |
| Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid, 9-[9CI-PF3ONS]    | 756426-58-1 | E745DW    | 0.0004 | µg/L | 0.002 µg/L                             | 92.2         | 70.0                | 130  | ----      |
| Ethyl perfluorooctanesulfonamide, N- [NEtFOSA]                      | 4151-50-2   | E745DW    | 0.002  | µg/L | 0.005 µg/L                             | 99.5         | 70.0                | 130  | ----      |
| Ethyl perfluorooctanesulfonamidoacetic acid, N- [NEtFOSAA]          | 2991-50-6   | E745DW    | 0.004  | µg/L | 0.01 µg/L                              | 81.7         | 70.0                | 130  | ----      |
| Ethyl perfluorooctanesulfonamidoethanol, N- [NEtFOSE]               | 1691-99-2   | E745DW    | 0.002  | µg/L | 0.01 µg/L                              | 89.4         | 70.0                | 130  | ----      |



Sub-Matrix: Water

|                                                                         |             |        |        |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|-------------------------------------------------------------------------|-------------|--------|--------|------|----------------------------------------|--------------|---------------------|------|-----------|
|                                                                         |             |        |        |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                                                                 | CAS Number  | Method | LOR    | Unit | Target Concentration                   | LCS          | Low                 | High | Qualifier |
| Per- and Polyfluoroalkyl Substances (PFAS) (QCLot: 2096334) - continued |             |        |        |      |                                        |              |                     |      |           |
| Fluorotelomer carboxylic acid, 3:3 [3:3 FTCA]                           | 356-02-5    | E745DW | 0.01   | µg/L | 0.05 µg/L                              | 84.6         | 70.0                | 130  | ----      |
| Fluorotelomer carboxylic acid, 5:3 [5:3 FTCA]                           | 914637-49-3 | E745DW | 0.004  | µg/L | 0.01 µg/L                              | 88.7         | 70.0                | 130  | ----      |
| Fluorotelomer carboxylic acid, 7:3 [7:3 FTCA]                           | 812-70-4    | E745DW | 0.004  | µg/L | 0.01 µg/L                              | 89.2         | 70.0                | 130  | ----      |
| Fluorotelomer sulfonic acid, 4:2 [4:2 FTS]                              | 757124-72-4 | E745DW | 0.001  | µg/L | 0.005 µg/L                             | 98.4         | 70.0                | 130  | ----      |
| Fluorotelomer sulfonic acid, 6:2 [6:2 FTS]                              | 27619-97-2  | E745DW | 0.003  | µg/L | 0.005 µg/L                             | 79.1         | 70.0                | 130  | ----      |
| Fluorotelomer sulfonic acid, 8:2 [8:2 FTS]                              | 39108-34-4  | E745DW | 0.001  | µg/L | 0.005 µg/L                             | 76.5         | 70.0                | 130  | ----      |
| Hexafluoropropylene oxide dimer acid [HFPO-DA]                          | 13252-13-6  | E745DW | 0.004  | µg/L | 0.02 µg/L                              | 95.9         | 70.0                | 130  | ----      |
| Methyl perfluorooctanesulfonamide, N- [NMeFOSA]                         | 31506-32-8  | E745DW | 0.002  | µg/L | 0.005 µg/L                             | 84.3         | 70.0                | 130  | ----      |
| Methyl perfluorooctanesulfonamidoacetic acid, N- [NMeFOSAA]             | 2355-31-9   | E745DW | 0.004  | µg/L | 0.01 µg/L                              | 85.6         | 70.0                | 130  | ----      |
| Methyl perfluorooctanesulfonamidoethanol, N- [NMeFOSE]                  | 24448-09-7  | E745DW | 0.002  | µg/L | 0.01 µg/L                              | 87.5         | 70.0                | 130  | ----      |
| Nonafluoro-3,6-dioxaheptanoic acid [NFDHA]                              | 151772-58-6 | E745DW | 0.004  | µg/L | 0.02 µg/L                              | 78.9         | 70.0                | 130  | ----      |
| Perfluoro(2-ethoxyethane)sulfonic acid [PFEESA]                         | 113507-82-7 | E745DW | 0.0004 | µg/L | 0.002 µg/L                             | 85.5         | 70.0                | 130  | ----      |
| Perfluoro-3-methoxypropanoic acid [PFMPA]                               | 377-73-1    | E745DW | 0.0004 | µg/L | 0.002 µg/L                             | 84.6         | 70.0                | 130  | ----      |
| Perfluoro-4-methoxybutanoic acid [PFMBA]                                | 863090-89-5 | E745DW | 0.0004 | µg/L | 0.002 µg/L                             | 84.8         | 70.0                | 130  | ----      |
| Perfluorobutanesulfonic acid [PFBS]                                     | 375-73-5    | E745DW | 0.001  | µg/L | 0.005 µg/L                             | 78.6         | 70.0                | 130  | ----      |
| Perfluorobutanoic acid [PFBA]                                           | 375-22-4    | E745DW | 0.002  | µg/L | 0.01 µg/L                              | 86.1         | 70.0                | 130  | ----      |
| Perfluorodecanesulfonic acid [PFDS]                                     | 335-77-3    | E745DW | 0.002  | µg/L | 0.01 µg/L                              | 78.8         | 70.0                | 130  | ----      |
| Perfluorodecanoic acid [PFDA]                                           | 335-76-2    | E745DW | 0.002  | µg/L | 0.01 µg/L                              | 84.0         | 70.0                | 130  | ----      |
| Perfluorododecanesulfonic acid [PFDoS]                                  | 79780-39-5  | E745DW | 0.002  | µg/L | 0.01 µg/L                              | 77.5         | 70.0                | 130  | ----      |
| Perfluorododecanoic acid [PFDoA]                                        | 307-55-1    | E745DW | 0.002  | µg/L | 0.01 µg/L                              | 93.1         | 70.0                | 130  | ----      |
| Perfluoroheptanesulfonic acid [PFHpS]                                   | 375-92-8    | E745DW | 0.002  | µg/L | 0.01 µg/L                              | 86.1         | 70.0                | 130  | ----      |
| Perfluoroheptanoic acid [PFHpA]                                         | 375-85-9    | E745DW | 0.001  | µg/L | 0.002 µg/L                             | 84.9         | 70.0                | 130  | ----      |
| Perfluorohexanesulfonic acid [PFHxS]                                    | 355-46-4    | E745DW | 0.002  | µg/L | 0.01 µg/L                              | 86.4         | 70.0                | 130  | ----      |
| Perfluorohexanoic acid [PFHxA]                                          | 307-24-4    | E745DW | 0.0004 | µg/L | 0.002 µg/L                             | 87.0         | 70.0                | 130  | ----      |
| Perfluorononanesulfonic acid [PFNS]                                     | 68259-12-1  | E745DW | 0.002  | µg/L | 0.01 µg/L                              | 83.3         | 70.0                | 130  | ----      |
| Perfluorononanoic acid [PFNA]                                           | 375-95-1    | E745DW | 0.002  | µg/L | 0.01 µg/L                              | 91.4         | 70.0                | 130  | ----      |
| Perfluorononanoic acid, 4,8-dioxa-3H- [ADONA]                           | 919005-14-4 | E745DW | 0.0004 | µg/L | 0.002 µg/L                             | 90.9         | 70.0                | 130  | ----      |
| Perfluorooctanesulfonamide [PFOSA]                                      | 754-91-6    | E745DW | 0.002  | µg/L | 0.01 µg/L                              | 83.4         | 70.0                | 130  | ----      |
| Perfluorooctanesulfonic acid [PFOS]                                     | 1763-23-1   | E745DW | 0.002  | µg/L | 0.01 µg/L                              | 85.3         | 70.0                | 130  | ----      |
| Perfluorooctanoic acid [PFOA]                                           | 335-67-1    | E745DW | 0.001  | µg/L | 0.005 µg/L                             | 70.5         | 70.0                | 130  | ----      |
| Perfluoropentanesulfonic acid [PFPeS]                                   | 2706-91-4   | E745DW | 0.002  | µg/L | 0.01 µg/L                              | 88.1         | 70.0                | 130  | ----      |
| Perfluoropentanoic acid [PFPeA]                                         | 2706-90-3   | E745DW | 0.002  | µg/L | 0.01 µg/L                              | 88.2         | 70.0                | 130  | ----      |
| Perfluorotetradecanoic acid [PFTeDA]                                    | 376-06-7    | E745DW | 0.001  | µg/L | 0.005 µg/L                             | 84.6         | 70.0                | 130  | ----      |
| Perfluorotridecanoic acid [PFTTrDA]                                     | 72629-94-8  | E745DW | 0.002  | µg/L | 0.005 µg/L                             | 84.5         | 70.0                | 130  | ----      |
| Perfluoroundecanoic acid [PFUnA]                                        | 2058-94-8   | E745DW | 0.001  | µg/L | 0.005 µg/L                             | 83.5         | 70.0                | 130  | ----      |



| Sub-Matrix: Water                             |            |        |       |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|-----------------------------------------------|------------|--------|-------|------|----------------------------------------|--------------|---------------------|------|-----------|
|                                               |            |        |       |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                                       | CAS Number | Method | LOR   | Unit | Target Concentration                   | LCS          | Low                 | High | Qualifier |
| Chlorinated Phenolics (QCLot: 2092247)        |            |        |       |      |                                        |              |                     |      |           |
| Dichlorophenol, 2,4-                          | 120-83-2   | E625   | 0.2   | µg/L | 25.3 µg/L                              | 82.3         | 50.0                | 140  | ----      |
| Pentachlorophenol [PCP]                       | 87-86-5    | E625   | 0.5   | µg/L | 25.3 µg/L                              | 96.8         | 50.0                | 140  | ----      |
| Tetrachlorophenol, 2,3,4,6-                   | 58-90-2    | E625   | 0.5   | µg/L | 25.3 µg/L                              | 90.8         | 50.0                | 140  | ----      |
| Trichlorophenol, 2,4,6-                       | 88-06-2    | E625   | 0.2   | µg/L | 25.3 µg/L                              | 87.7         | 50.0                | 140  | ----      |
| Organochlorine Pesticides (QCLot: 2093165)    |            |        |       |      |                                        |              |                     |      |           |
| Methoxychlor                                  | 72-43-5    | E660F  | 0.008 | µg/L | 0.2 µg/L                               | 76.9         | 50.0                | 150  | ----      |
| Herbicides (QCLot: 2092343)                   |            |        |       |      |                                        |              |                     |      |           |
| Glyphosate                                    | 1071-83-6  | E716A  | 1     | µg/L | 5 µg/L                                 | 101          | 70.0                | 130  | ----      |
| Herbicides (QCLot: 2092375)                   |            |        |       |      |                                        |              |                     |      |           |
| Diquat (ion)                                  | 2764-72-9  | E723A  | 1     | µg/L | 25 µg/L                                | 111          | 70.0                | 130  | ----      |
| Herbicides (QCLot: 2092645)                   |            |        |       |      |                                        |              |                     |      |           |
| Atrazine                                      | 1912-24-9  | E755   | 0.05  | µg/L | 1.25 µg/L                              | 82.4         | 60.0                | 140  | ----      |
| Atrazine-desethyl                             | 6190-65-4  | E755   | 0.025 | µg/L | 1.25 µg/L                              | 95.6         | 60.0                | 140  | ----      |
| Diuron                                        | 330-54-1   | E755   | 0.05  | µg/L | 1.25 µg/L                              | 86.3         | 60.0                | 140  | ----      |
| Metolachlor                                   | 51218-45-2 | E755   | 0.025 | µg/L | 1.25 µg/L                              | 92.0         | 60.0                | 140  | ----      |
| Metribuzin                                    | 21087-64-9 | E755   | 0.1   | µg/L | 1.25 µg/L                              | 89.2         | 60.0                | 140  | ----      |
| Simazine                                      | 122-34-9   | E755   | 0.1   | µg/L | 1.25 µg/L                              | 100          | 60.0                | 140  | ----      |
| Herbicides (QCLot: 2094138)                   |            |        |       |      |                                        |              |                     |      |           |
| Acetic acid, 2-methyl-4-chlorophenoxy- [MCPA] | 94-74-6    | E706A  | 0.05  | µg/L | 1 µg/L                                 | 107          | 65.0                | 130  | ----      |
| Bromoxynil                                    | 1689-84-5  | E706A  | 0.05  | µg/L | 1 µg/L                                 | 82.1         | 65.0                | 130  | ----      |
| Dicamba                                       | 1918-00-9  | E706A  | 0.1   | µg/L | 2 µg/L                                 | 99.7         | 50.0                | 150  | ----      |
| Dichlorophenoxyacetic acid, 2,4- [2,4-D]      | 94-75-7    | E706A  | 0.05  | µg/L | 1 µg/L                                 | 106          | 65.0                | 130  | ----      |
| Picloram                                      | 1918-02-1  | E706A  | 0.1   | µg/L | 2 µg/L                                 | 125          | 50.0                | 150  | ----      |
| Herbicides (QCLot: 2096620)                   |            |        |       |      |                                        |              |                     |      |           |
| Trifluralin                                   | 1582-09-8  | E756   | 0.1   | µg/L | 1.25 µg/L                              | 86.8         | 60.0                | 140  | ----      |
| Insecticides (QCLot: 2092645)                 |            |        |       |      |                                        |              |                     |      |           |
| Carbaryl                                      | 63-25-2    | E755   | 0.05  | µg/L | 1.25 µg/L                              | 87.6         | 60.0                | 140  | ----      |
| Diazinon                                      | 333-41-5   | E755   | 0.025 | µg/L | 1.25 µg/L                              | 90.2         | 60.0                | 140  | ----      |
| Dimethoate                                    | 60-51-5    | E755   | 0.05  | µg/L | 1.25 µg/L                              | 91.2         | 60.0                | 140  | ----      |
| Malathion                                     | 121-75-5   | E755   | 0.025 | µg/L | 1.25 µg/L                              | 92.1         | 60.0                | 140  | ----      |
| Omethoate                                     | 1113-02-6  | E755   | 0.05  | µg/L | 1.25 µg/L                              | 115          | 60.0                | 140  | ----      |
| Phorate                                       | 298-02-2   | E755   | 0.25  | µg/L | 1.25 µg/L                              | 98.5         | 60.0                | 140  | ----      |



|                                 |            |        |       |      |                                        |              |                     |      |           |
|---------------------------------|------------|--------|-------|------|----------------------------------------|--------------|---------------------|------|-----------|
| Sub-Matrix: <b>Water</b>        |            |        |       |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|                                 |            |        |       |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                         | CAS Number | Method | LOR   | Unit | Target Concentration                   | LCS          | Low                 | High | Qualifier |
| Insecticides (QCLot: 2096620)   |            |        |       |      |                                        |              |                     |      |           |
| Chlorpyrifos                    | 2921-88-2  | E756   | 0.1   | µg/L | 1.25 µg/L                              | 103          | 60.0                | 140  | ----      |
| Nitrosamines (QCLot: 2096346)   |            |        |       |      |                                        |              |                     |      |           |
| Nitrosodimethylamine, N- [NDMA] | 62-75-9    | E725A  | 0.034 | µg/L | 0.278 µg/L                             | 99.8         | 50.0                | 150  | ----      |





Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

| Laboratory sample ID                        |           |                                          |            |          | Matrix Spike (MS) Report |            |              |                     |      |           |
|---------------------------------------------|-----------|------------------------------------------|------------|----------|--------------------------|------------|--------------|---------------------|------|-----------|
|                                             |           |                                          |            |          | Spike                    |            | Recovery (%) | Recovery Limits (%) |      | Qualifier |
|                                             |           |                                          |            |          | Concentration            | Target     | MS           | Low                 | High |           |
| Client sample ID                            | Analyte   | CAS Number                               | Method     |          |                          |            |              |                     |      |           |
| Anions and Nutrients (QCLot: 2086955)       |           |                                          |            |          |                          |            |              |                     |      |           |
| FC2501659-007                               | Anonymous | Fluoride                                 | 16984-48-8 | E235.F   | 0.952 mg/L               | 1 mg/L     | 95.2         | 75.0                | 125  | ----      |
| Anions and Nutrients (QCLot: 2086956)       |           |                                          |            |          |                          |            |              |                     |      |           |
| FC2501659-007                               | Anonymous | Nitrite (as N)                           | 14797-65-0 | E235.NO2 | 0.459 mg/L               | 0.5 mg/L   | 91.7         | 75.0                | 125  | ----      |
| Anions and Nutrients (QCLot: 2086957)       |           |                                          |            |          |                          |            |              |                     |      |           |
| FC2501659-007                               | Anonymous | Sulfate (as SO4)                         | 14808-79-8 | E235.SO4 | ND mg/L                  | ----       | ND           | 75.0                | 125  | ----      |
| Anions and Nutrients (QCLot: 2086958)       |           |                                          |            |          |                          |            |              |                     |      |           |
| FC2501659-007                               | Anonymous | Chloride                                 | 16887-00-6 | E235.Cl  | 93.3 mg/L                | 100 mg/L   | 93.3         | 75.0                | 125  | ----      |
| Anions and Nutrients (QCLot: 2086959)       |           |                                          |            |          |                          |            |              |                     |      |           |
| FC2501659-007                               | Anonymous | Nitrate (as N)                           | 14797-55-8 | E235.NO3 | 2.36 mg/L                | 2.5 mg/L   | 94.4         | 75.0                | 125  | ----      |
| Anions and Nutrients (QCLot: 2087941)       |           |                                          |            |          |                          |            |              |                     |      |           |
| FC2501663-002                               | Anonymous | Ammonia, total (as N)                    | 7664-41-7  | E298     | ND mg/L                  | ----       | ND           | 75.0                | 125  | ----      |
| Cyanides (QCLot: 2092550)                   |           |                                          |            |          |                          |            |              |                     |      |           |
| HA2502100-005                               | Anonymous | Cyanide, strong acid dissociable (Total) | ----       | E333     | 0.224 mg/L               | 0.25 mg/L  | 89.6         | 75.0                | 125  | ----      |
| Organic / Inorganic Carbon (QCLot: 2099329) |           |                                          |            |          |                          |            |              |                     |      |           |
| GP2501196-001                               | Anonymous | Carbon, total organic [TOC]              | ----       | E355-L   | 5.89 mg/L                | 5 mg/L     | 118          | 70.0                | 130  | ----      |
| Total Sulfides (QCLot: 2087738)             |           |                                          |            |          |                          |            |              |                     |      |           |
| CG2509018-002                               | Anonymous | Sulfide, total (as S)                    | 18496-25-8 | E395     | ND mg/L                  | ----       | ND           | 75.0                | 125  | ----      |
| Total Metals (QCLot: 2089249)               |           |                                          |            |          |                          |            |              |                     |      |           |
| EO2505396-002                               | Anonymous | Mercury, total                           | 7439-97-6  | E508     | 0.000103 mg/L            | 0 mg/L     | 103          | 70.0                | 130  | ----      |
| Total Metals (QCLot: 2089254)               |           |                                          |            |          |                          |            |              |                     |      |           |
| EO2505593-007                               | Anonymous | Aluminum, total                          | 7429-90-5  | E420     | ND mg/L                  | ----       | ND           | 70.0                | 130  | ----      |
|                                             |           | Antimony, total                          | 7440-36-0  | E420     | 0.0200 mg/L              | 0.02 mg/L  | 99.8         | 70.0                | 130  | ----      |
|                                             |           | Arsenic, total                           | 7440-38-2  | E420     | 0.0202 mg/L              | 0.02 mg/L  | 101          | 70.0                | 130  | ----      |
|                                             |           | Barium, total                            | 7440-39-3  | E420     | ND mg/L                  | ----       | ND           | 70.0                | 130  | ----      |
|                                             |           | Boron, total                             | 7440-42-8  | E420     | 0.095 mg/L               | 0.1 mg/L   | 95.2         | 70.0                | 130  | ----      |
|                                             |           | Cadmium, total                           | 7440-43-9  | E420     | 0.00403 mg/L             | 0.004 mg/L | 101          | 70.0                | 130  | ----      |
|                                             |           | Calcium, total                           | 7440-70-2  | E420     | ND mg/L                  | ----       | ND           | 70.0                | 130  | ----      |
|                                             |           | Chromium, total                          | 7440-47-3  | E420     | 0.0417 mg/L              | 0.04 mg/L  | 104          | 70.0                | 130  | ----      |
|                                             |           | Copper, total                            | 7440-50-8  | E420     | 0.0199 mg/L              | 0.02 mg/L  | 99.7         | 70.0                | 130  | ----      |
|                                             |           | Iron, total                              | 7439-89-6  | E420     | 1.99 mg/L                | 2 mg/L     | 99.7         | 70.0                | 130  | ----      |
|                                             |           | Lead, total                              | 7439-92-1  | E420     | 0.0203 mg/L              | 0.02 mg/L  | 101          | 70.0                | 130  | ----      |
|                                             |           | Magnesium, total                         | 7439-95-4  | E420     | ND mg/L                  | ----       | ND           | 70.0                | 130  | ----      |
|                                             |           | Manganese, total                         | 7439-96-5  | E420     | ND mg/L                  | ----       | ND           | 70.0                | 130  | ----      |



| Sub-Matrix: Water                                           |                  |                                                                     |             |           | Matrix Spike (MS) Report |            |              |                     |      |           |
|-------------------------------------------------------------|------------------|---------------------------------------------------------------------|-------------|-----------|--------------------------|------------|--------------|---------------------|------|-----------|
|                                                             |                  |                                                                     |             |           | Spike                    |            | Recovery (%) | Recovery Limits (%) |      |           |
| Laboratory sample ID                                        | Client sample ID | Analyte                                                             | CAS Number  | Method    | Concentration            | Target     | MS           | Low                 | High | Qualifier |
| Total Metals (QCLot: 2089254) - continued                   |                  |                                                                     |             |           |                          |            |              |                     |      |           |
| EO2505593-007                                               | Anonymous        | Selenium, total                                                     | 7782-49-2   | E420      | 0.0417 mg/L              | 0.04 mg/L  | 104          | 70.0                | 130  | ----      |
|                                                             |                  | Silver, total                                                       | 7440-22-4   | E420      | 0.00420 mg/L             | 0.004 mg/L | 105          | 70.0                | 130  | ----      |
|                                                             |                  | Sodium, total                                                       | 7440-23-5   | E420      | ND mg/L                  | ----       | ND           | 70.0                | 130  | ----      |
|                                                             |                  | Strontium, total                                                    | 7440-24-6   | E420      | ND mg/L                  | ----       | ND           | 70.0                | 130  | ----      |
|                                                             |                  | Uranium, total                                                      | 7440-61-1   | E420      | 0.00407 mg/L             | 0.004 mg/L | 102          | 70.0                | 130  | ----      |
|                                                             |                  | Zinc, total                                                         | 7440-66-6   | E420      | 0.350 mg/L               | 0.4 mg/L   | 87.4         | 70.0                | 130  | ----      |
| Aggregate Organics (QCLot: 2089134)                         |                  |                                                                     |             |           |                          |            |              |                     |      |           |
| CG2508975-003                                               | Anonymous        | Microcystin                                                         | 101043-37-2 | E576      | 0.64 µg/L                | 1 µg/L     | 63.6         | 50.0                | 150  | ----      |
| Aggregate Organics (QCLot: 2097309)                         |                  |                                                                     |             |           |                          |            |              |                     |      |           |
| EO2505604-001                                               | Anonymous        | Nitritotriacetic acid [NTA]                                         | 139-13-9    | E394      | 1.06 mg/L                | 1 mg/L     | 106          | 50.0                | 150  | ----      |
| Volatile Organic Compounds (QCLot: 2091293)                 |                  |                                                                     |             |           |                          |            |              |                     |      |           |
| GP2501196-001                                               | Anonymous        | Dioxane, 1,4-                                                       | 123-91-1    | E611I     | 96 µg/L                  | 100 µg/L   | 96.3         | 70.0                | 130  | ----      |
| Volatile Organic Compounds (QCLot: 2091294)                 |                  |                                                                     |             |           |                          |            |              |                     |      |           |
| GP2501196-001                                               | Anonymous        | Benzene                                                             | 71-43-2     | E611F     | 91.7 µg/L                | 100 µg/L   | 91.7         | 70.0                | 130  | ----      |
|                                                             |                  | Carbon tetrachloride                                                | 56-23-5     | E611F     | 83.8 µg/L                | 100 µg/L   | 83.8         | 70.0                | 130  | ----      |
|                                                             |                  | Chlorobenzene                                                       | 108-90-7    | E611F     | 91.5 µg/L                | 100 µg/L   | 91.5         | 70.0                | 130  | ----      |
|                                                             |                  | Dichlorobenzene, 1,2-                                               | 95-50-1     | E611F     | 95.4 µg/L                | 100 µg/L   | 95.4         | 70.0                | 130  | ----      |
|                                                             |                  | Dichlorobenzene, 1,4-                                               | 106-46-7    | E611F     | 95.0 µg/L                | 100 µg/L   | 95.0         | 70.0                | 130  | ----      |
|                                                             |                  | Dichloroethane, 1,2-                                                | 107-06-2    | E611F     | 94.2 µg/L                | 100 µg/L   | 94.2         | 70.0                | 130  | ----      |
|                                                             |                  | Dichloroethylene, 1,1-                                              | 75-35-4     | E611F     | 75.7 µg/L                | 100 µg/L   | 75.7         | 70.0                | 130  | ----      |
|                                                             |                  | Dichloromethane                                                     | 75-09-2     | E611F     | 83.4 µg/L                | 100 µg/L   | 83.4         | 70.0                | 130  | ----      |
|                                                             |                  | Ethylbenzene                                                        | 100-41-4    | E611F     | 92.2 µg/L                | 100 µg/L   | 92.2         | 70.0                | 130  | ----      |
|                                                             |                  | Tetrachloroethylene                                                 | 127-18-4    | E611F     | 86.4 µg/L                | 100 µg/L   | 86.4         | 70.0                | 130  | ----      |
|                                                             |                  | Toluene                                                             | 108-88-3    | E611F     | 90.6 µg/L                | 100 µg/L   | 90.6         | 70.0                | 130  | ----      |
|                                                             |                  | Trichloroethylene                                                   | 79-01-6     | E611F     | 81.5 µg/L                | 100 µg/L   | 81.5         | 70.0                | 130  | ----      |
|                                                             |                  | Vinyl chloride                                                      | 75-01-4     | E611F     | 71.9 µg/L                | 100 µg/L   | 71.9         | 60.0                | 140  | ----      |
|                                                             |                  | Xylene, m+p-                                                        | 179601-23-1 | E611F     | 187 µg/L                 | 200 µg/L   | 93.6         | 70.0                | 130  | ----      |
|                                                             |                  | Xylene, o-                                                          | 95-47-6     | E611F     | 93.6 µg/L                | 100 µg/L   | 93.6         | 70.0                | 130  | ----      |
| Disinfectant By-Products (QCLot: 2092350)                   |                  |                                                                     |             |           |                          |            |              |                     |      |           |
| CG2509114-002                                               | Anonymous        | Bromate                                                             | 15541-45-4  | E722A     | 3.89 µg/L                | 4 µg/L     | 97.3         | 70.0                | 130  | ----      |
| Disinfectant By-Products (QCLot: 2092692)                   |                  |                                                                     |             |           |                          |            |              |                     |      |           |
| FC2501665-002                                               | Anonymous        | Chlorate                                                            | 14866-68-3  | E409.CLO3 | 1.05 mg/L                | 1 mg/L     | 105          | 75.0                | 125  | ----      |
| Disinfectant By-Products (QCLot: 2092693)                   |                  |                                                                     |             |           |                          |            |              |                     |      |           |
| FC2501665-002                                               | Anonymous        | Chlorite                                                            | 14998-27-7  | E409.CLO2 | 1.05 mg/L                | 1 mg/L     | 105          | 75.0                | 125  | ----      |
| Per- and Polyfluoroalkyl Substances (PFAS) (QCLot: 2096334) |                  |                                                                     |             |           |                          |            |              |                     |      |           |
| GP2501221-001                                               | Anonymous        | Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid, 11- [11CI-PF3OUdS] | 763051-92-9 | E745DW    | 0.00261 µg/L             | 0.002 µg/L | 133          | 70.0                | 130  | K         |
|                                                             |                  | Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid, 9- [9CI-PF3ONS]   | 756426-58-1 | E745DW    | 0.00296 µg/L             | 0.002 µg/L | 151          | 70.0                | 130  | K         |



Sub-Matrix: Water

| Sub-Matrix: Water                                                       |                  |                                                             |             |        | Matrix Spike (MS) Report |            |              |                     |      |           |
|-------------------------------------------------------------------------|------------------|-------------------------------------------------------------|-------------|--------|--------------------------|------------|--------------|---------------------|------|-----------|
|                                                                         |                  |                                                             |             |        | Spike                    |            | Recovery (%) | Recovery Limits (%) |      |           |
| Laboratory sample ID                                                    | Client sample ID | Analyte                                                     | CAS Number  | Method | Concentration            | Target     | MS           | Low                 | High | Qualifier |
| Per- and Polyfluoroalkyl Substances (PFAS) (QCLot: 2096334) - continued |                  |                                                             |             |        |                          |            |              |                     |      |           |
| GP2501221-001                                                           | Anonymous        | Ethyl perfluorooctanesulfonamide, N- [NEtFOSA]              | 4151-50-2   | E745DW | 0.0043 µg/L              | 0.005 µg/L | 87.7         | 70.0                | 130  | ----      |
|                                                                         |                  | Ethyl perfluorooctanesulfonamidoacetic acid, N- [NEtFOSAA]  | 2991-50-6   | E745DW | 0.0078 µg/L              | 0.01 µg/L  | 79.1         | 70.0                | 130  | ----      |
|                                                                         |                  | Ethyl perfluorooctanesulfonamidoethanol, N- [NEtFOSE]       | 1691-99-2   | E745DW | 0.0083 µg/L              | 0.01 µg/L  | 84.3         | 70.0                | 130  | ----      |
|                                                                         |                  | Fluorotelomer carboxylic acid, 3:3 [3:3 FTCA]               | 356-02-5    | E745DW | 0.047 µg/L               | 0.049 µg/L | 96.5         | 70.0                | 130  | ----      |
|                                                                         |                  | Fluorotelomer carboxylic acid, 5:3 [5:3 FTCA]               | 914637-49-3 | E745DW | 0.0151 µg/L              | 0.01 µg/L  | 154          | 70.0                | 130  | K         |
|                                                                         |                  | Fluorotelomer carboxylic acid, 7:3 [7:3 FTCA]               | 812-70-4    | E745DW | 0.013 µg/L               | 0.01 µg/L  | 129          | 70.0                | 130  | ----      |
|                                                                         |                  | Fluorotelomer sulfonic acid, 4:2 [4:2 FTS]                  | 757124-72-4 | E745DW | 0.0034 µg/L              | 0.005 µg/L | 70.1         | 70.0                | 130  | ----      |
|                                                                         |                  | Fluorotelomer sulfonic acid, 6:2 [6:2 FTS]                  | 27619-97-2  | E745DW | 0.0043 µg/L              | 0.005 µg/L | 87.3         | 70.0                | 130  | ----      |
|                                                                         |                  | Fluorotelomer sulfonic acid, 8:2 [8:2 FTS]                  | 39108-34-4  | E745DW | 0.0041 µg/L              | 0.005 µg/L | 83.6         | 70.0                | 130  | ----      |
|                                                                         |                  | Hexafluoropropylene oxide dimer acid [HFPO-DA]              | 13252-13-6  | E745DW | 0.0140 µg/L              | 0.02 µg/L  | 71.6         | 70.0                | 130  | ----      |
|                                                                         |                  | Methyl perfluorooctanesulfonamide, N- [NMeFOSA]             | 31506-32-8  | E745DW | 0.0042 µg/L              | 0.005 µg/L | 85.2         | 70.0                | 130  | ----      |
|                                                                         |                  | Methyl perfluorooctanesulfonamidoacetic acid, N- [NMeFOSAA] | 2355-31-9   | E745DW | 0.0086 µg/L              | 0.01 µg/L  | 87.6         | 70.0                | 130  | ----      |
|                                                                         |                  | Methyl perfluorooctanesulfonamidoethanol, N- [NMeFOSE]      | 24448-09-7  | E745DW | 0.0088 µg/L              | 0.01 µg/L  | 90.0         | 70.0                | 130  | ----      |
|                                                                         |                  | Nonafluoro-3,6-dioxaheptanoic acid [NFDHA]                  | 151772-58-6 | E745DW | 0.0114 µg/L              | 0.02 µg/L  | 58.4         | 70.0                | 130  | K         |
|                                                                         |                  | Perfluoro(2-ethoxyethane)sulfonic acid [PFEEESA]            | 113507-82-7 | E745DW | 0.00212 µg/L             | 0.002 µg/L | 108          | 70.0                | 130  | ----      |
|                                                                         |                  | Perfluoro-3-methoxypropanoic acid [PFMPA]                   | 377-73-1    | E745DW | 0.00143 µg/L             | 0.002 µg/L | 73.0         | 70.0                | 130  | ----      |
|                                                                         |                  | Perfluoro-4-methoxybutanoic acid [PFMBA]                    | 863090-89-5 | E745DW | 0.00221 µg/L             | 0.002 µg/L | 113          | 70.0                | 130  | ----      |
|                                                                         |                  | Perfluorobutanesulfonic acid [PFBS]                         | 375-73-5    | E745DW | 0.0046 µg/L              | 0.005 µg/L | 94.5         | 70.0                | 130  | ----      |
|                                                                         |                  | Perfluorobutanoic acid [PFBA]                               | 375-22-4    | E745DW | ND µg/L                  | ----       | ND           | 70.0                | 130  | ----      |
|                                                                         |                  | Perfluorodecanesulfonic acid [PFDS]                         | 335-77-3    | E745DW | 0.0076 µg/L              | 0.01 µg/L  | 77.7         | 70.0                | 130  | ----      |
|                                                                         |                  | Perfluorodecanoic acid [PFDA]                               | 335-76-2    | E745DW | 0.0094 µg/L              | 0.01 µg/L  | 95.7         | 70.0                | 130  | ----      |
|                                                                         |                  | Perfluorododecanesulfonic acid [PFDoS]                      | 79780-39-5  | E745DW | 0.0076 µg/L              | 0.01 µg/L  | 77.4         | 70.0                | 130  | ----      |
|                                                                         |                  | Perfluorododecanoic acid [PFDoA]                            | 307-55-1    | E745DW | 0.0089 µg/L              | 0.01 µg/L  | 90.9         | 70.0                | 130  | ----      |
|                                                                         |                  | Perfluoroheptanesulfonic acid [PFHpS]                       | 375-92-8    | E745DW | 0.0078 µg/L              | 0.01 µg/L  | 79.4         | 70.0                | 130  | ----      |
|                                                                         |                  | Perfluoroheptanoic acid [PFHpA]                             | 375-85-9    | E745DW | 0.0018 µg/L              | 0.002 µg/L | 93.0         | 70.0                | 130  | ----      |
|                                                                         |                  | Perfluorohexanesulfonic acid [PFHxS]                        | 355-46-4    | E745DW | 0.0084 µg/L              | 0.01 µg/L  | 85.4         | 70.0                | 130  | ----      |
|                                                                         |                  | Perfluorohexanoic acid [PFHxA]                              | 307-24-4    | E745DW | 0.00182 µg/L             | 0.002 µg/L | 92.6         | 70.0                | 130  | ----      |
|                                                                         |                  | Perfluorononanesulfonic acid [PFNS]                         | 68259-12-1  | E745DW | 0.0074 µg/L              | 0.01 µg/L  | 75.6         | 70.0                | 130  | ----      |



| Sub-Matrix: Water                                                       |                  |                                              |             |            | Matrix Spike (MS) Report |            |              |                     |      |           |
|-------------------------------------------------------------------------|------------------|----------------------------------------------|-------------|------------|--------------------------|------------|--------------|---------------------|------|-----------|
|                                                                         |                  |                                              |             |            | Spike                    |            | Recovery (%) | Recovery Limits (%) |      |           |
| Laboratory sample ID                                                    | Client sample ID | Analyte                                      | CAS Number  | Method     | Concentration            | Target     | MS           | Low                 | High | Qualifier |
| Per- and Polyfluoroalkyl Substances (PFAS) (QCLot: 2096334) - continued |                  |                                              |             |            |                          |            |              |                     |      |           |
| GP2501221-001                                                           | Anonymous        | Perfluorononanoic acid [PFNA]                | 375-95-1    | E745DW     | 0.0101 µg/L              | 0.01 µg/L  | 103          | 70.0                | 130  | ----      |
|                                                                         |                  | Perfluorononanoic acid, 4,8-dioxa-3H-[ADONA] | 919005-14-4 | E745DW     | 0.00219 µg/L             | 0.002 µg/L | 112          | 70.0                | 130  | ----      |
|                                                                         |                  | Perfluorooctanesulfonamide [PFOSA]           | 754-91-6    | E745DW     | 0.0075 µg/L              | 0.01 µg/L  | 76.6         | 70.0                | 130  | ----      |
|                                                                         |                  | Perfluorooctanesulfonic acid [PFOS]          | 1763-23-1   | E745DW     | 0.0082 µg/L              | 0.01 µg/L  | 83.8         | 70.0                | 130  | ----      |
|                                                                         |                  | Perfluorooctanoic acid [PFOA]                | 335-67-1    | E745DW     | 0.0048 µg/L              | 0.005 µg/L | 98.0         | 70.0                | 130  | ----      |
|                                                                         |                  | Perfluoropentanesulfonic acid [PFPeS]        | 2706-91-4   | E745DW     | 0.0079 µg/L              | 0.01 µg/L  | 80.7         | 70.0                | 130  | ----      |
|                                                                         |                  | Perfluoropentanoic acid [PFPeA]              | 2706-90-3   | E745DW     | 0.0101 µg/L              | 0.01 µg/L  | 103          | 70.0                | 130  | ----      |
|                                                                         |                  | Perfluorotetradecanoic acid [PFTeDA]         | 376-06-7    | E745DW     | 0.0042 µg/L              | 0.005 µg/L | 86.4         | 70.0                | 130  | ----      |
|                                                                         |                  | Perfluorotridecanoic acid [PFTrDA]           | 72629-94-8  | E745DW     | 0.0047 µg/L              | 0.005 µg/L | 95.5         | 70.0                | 130  | ----      |
| Perfluoroundecanoic acid [PFUnA]                                        | 2058-94-8        | E745DW                                       | 0.0034 µg/L | 0.005 µg/L | 70.5                     | 70.0       | 130          | ----                |      |           |
| Herbicides (QCLot: 2092343)                                             |                  |                                              |             |            |                          |            |              |                     |      |           |
| FC2501665-002                                                           | Anonymous        | Glyphosate                                   | 1071-83-6   | E716A      | 5.2 µg/L                 | 5 µg/L     | 104          | 70.0                | 130  | ----      |
| Herbicides (QCLot: 2092375)                                             |                  |                                              |             |            |                          |            |              |                     |      |           |
| FC2501665-002                                                           | Anonymous        | Diquat (ion)                                 | 2764-72-9   | E723A      | 26.7 µg/L                | 25 µg/L    | 107          | 70.0                | 130  | ----      |
| Herbicides (QCLot: 2092645)                                             |                  |                                              |             |            |                          |            |              |                     |      |           |
| EO2505587-001                                                           | Anonymous        | Atrazine                                     | 1912-24-9   | E755       | 1.10 µg/L                | 1.25 µg/L  | 88.4         | 60.0                | 140  | ----      |
|                                                                         |                  | Atrazine-desethyl                            | 6190-65-4   | E755       | 1.29 µg/L                | 1.25 µg/L  | 104          | 60.0                | 140  | ----      |
|                                                                         |                  | Diuron                                       | 330-54-1    | E755       | 1.04 µg/L                | 1.25 µg/L  | 83.3         | 60.0                | 140  | ----      |
|                                                                         |                  | Metolachlor                                  | 51218-45-2  | E755       | 1.11 µg/L                | 1.25 µg/L  | 89.1         | 60.0                | 140  | ----      |
|                                                                         |                  | Metribuzin                                   | 21087-64-9  | E755       | 1.16 µg/L                | 1.25 µg/L  | 92.5         | 60.0                | 140  | ----      |
|                                                                         |                  | Simazine                                     | 122-34-9    | E755       | 1.22 µg/L                | 1.25 µg/L  | 97.4         | 60.0                | 140  | ----      |
| Herbicides (QCLot: 2094138)                                             |                  |                                              |             |            |                          |            |              |                     |      |           |
| FC2501665-002                                                           | Anonymous        | Acetic acid, 2-methyl-4-chlorophenoxy-[MCPA] | 94-74-6     | E706A      | 1.16 µg/L                | 1 µg/L     | 116          | 50.0                | 130  | ----      |
|                                                                         |                  | Bromoxynil                                   | 1689-84-5   | E706A      | 0.674 µg/L               | 1 µg/L     | 67.4         | 50.0                | 130  | ----      |
|                                                                         |                  | Dicamba                                      | 1918-00-9   | E706A      | 2.04 µg/L                | 2 µg/L     | 102          | 50.0                | 150  | ----      |
|                                                                         |                  | Dichlorophenoxyacetic acid, 2,4- [2,4-D]     | 94-75-7     | E706A      | 1.11 µg/L                | 1 µg/L     | 111          | 50.0                | 130  | ----      |
|                                                                         |                  | Picloram                                     | 1918-02-1   | E706A      | 2.37 µg/L                | 2 µg/L     | 119          | 50.0                | 150  | ----      |
| Herbicides (QCLot: 2096620)                                             |                  |                                              |             |            |                          |            |              |                     |      |           |
| EO2505587-001                                                           | Anonymous        | Trifluralin                                  | 1582-09-8   | E756       | 1.12 µg/L                | 1.25 µg/L  | 89.3         | 60.0                | 140  | ----      |
| Insecticides (QCLot: 2092645)                                           |                  |                                              |             |            |                          |            |              |                     |      |           |
| EO2505587-001                                                           | Anonymous        | Carbaryl                                     | 63-25-2     | E755       | 1.12 µg/L                | 1.25 µg/L  | 90.0         | 60.0                | 140  | ----      |
|                                                                         |                  | Diazinon                                     | 333-41-5    | E755       | 1.10 µg/L                | 1.25 µg/L  | 88.4         | 60.0                | 140  | ----      |
|                                                                         |                  | Dimethoate                                   | 60-51-5     | E755       | 1.14 µg/L                | 1.25 µg/L  | 90.9         | 60.0                | 140  | ----      |
|                                                                         |                  | Malathion                                    | 121-75-5    | E755       | 1.08 µg/L                | 1.25 µg/L  | 86.4         | 60.0                | 140  | ----      |
|                                                                         |                  | Omethoate                                    | 1113-02-6   | E755       | 1.35 µg/L                | 1.25 µg/L  | 108          | 60.0                | 140  | ----      |
|                                                                         |                  | Phorate                                      | 298-02-2    | E755       | 1.31 µg/L                | 1.25 µg/L  | 105          | 60.0                | 140  | ----      |
| Insecticides (QCLot: 2096620)                                           |                  |                                              |             |            |                          |            |              |                     |      |           |
| EO2505587-001                                                           | Anonymous        | Chlorpyrifos                                 | 2921-88-2   | E756       | 1.22 µg/L                | 1.25 µg/L  | 98.0         | 60.0                | 140  | ----      |



| Sub-Matrix: Water             |                  |                                 |            |        | Matrix Spike (MS) Report |            |              |                     |      |           |
|-------------------------------|------------------|---------------------------------|------------|--------|--------------------------|------------|--------------|---------------------|------|-----------|
|                               |                  |                                 |            |        | Spike                    |            | Recovery (%) | Recovery Limits (%) |      |           |
|                               |                  |                                 |            |        | Concentration            | Target     | MS           | Low                 | High | Qualifier |
| Laboratory sample ID          | Client sample ID | Analyte                         | CAS Number | Method |                          |            |              |                     |      |           |
| Nitrosamines (QCLot: 2096346) |                  |                                 |            |        |                          |            |              |                     |      |           |
| CG2508815-001                 | Anonymous        | Nitrosodimethylamine, N- [NDMA] | 62-75-9    | E725A  | 0.272 µg/L               | 0.278 µg/L | 97.8         | 50.0                | 150  | ----      |

Qualifiers

| Qualifier | Description                                                         |
|-----------|---------------------------------------------------------------------|
| K         | Matrix Spike recovery outside ALS DQO due to sample matrix effects. |

## ***Test Report***

SRC Group # 2025-8126

Jul 25, 2025

ALS Laboratory Group  
9505 111 Street  
Grande Prairie, AB T8V 5W1  
Attn: Wanda Chapella

Date Samples Received: Jul-04-2025

Client P.O.: GP2501197

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All results have been reviewed and approved by a Qualified Person in accordance with the Saskatchewan Environmental Code, Corrective Action Plan Chapter, for the purposes of certifying a laboratory analysis

Results from Lab Section 4 approved by Snook, Vicky

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Test methods and data are validated by the laboratory's Quality Assurance Program.

Routine methods follow recognized procedures from sources such as

- Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF
- Environment Canada
- US EPA
- CANMET

The results reported relate only to the test samples as provided by the client. Results apply to the sample as received, unless otherwise indicated.

Data marked as "by Client" has been provided by the client and may affect the validity of results.

Samples will be kept for 30 days after the final report is sent. Please contact the lab if you have any special requirements.

Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Analytes denoted with \* are accredited by CALA to ISO/IEC 17025:2017.

Additional information is available upon request.

This is a final report.

SRC Group # 2025-8126

Jul 25, 2025

ALS Laboratory Group

9505 111 Street

Grande Prairie, AB T8V 5W1

Attn: Wanda Chapella

Sample #: **2025021475**  
Date Sampled: **Jul 02, 2025**  
Sample Matrix: **WATER**  
Description: **07/02/2025 10:50 TREATED WATER GP2501197-001**

Client PO #: **GP2501197**  
Date Received: **Jul 04, 2025**

| Analyte              | Units | Result |
|----------------------|-------|--------|
| <b>Lab Section 4</b> |       |        |
| Cesium-137*          | Bq/L  | <0.2   |
| Iodine-131*          | Bq/L  | <0.3   |
| Lead-210*            | Bq/L  | 0.04   |
| Radium-226*          | Bq/L  | <0.01  |
| Radon-222*           | Bq/L  | <3     |
| Strontium-90*        | Bq/L  | <0.1   |
| Tritium*             | Bq/L  | <40    |

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

The temperature of the cooler was 5.1 °C upon receipt.

Radon result is corrected for decay to the time of sample collection.  
Gamma spectroscopy (Rad-300) detection limits are influenced by several factors. "Less than" values reported above represent the lowest detection limits achievable for the sample.

SRC Group # 2025-8126

Jul 25, 2025

ALS Laboratory Group

**Analyte Methods**

| <b>Name</b>  | <b>Units</b> | <b>Method</b> |
|--------------|--------------|---------------|
| Cesium-137   | Bq/L         | Rad-300       |
| Iodine-131   | Bq/L         | Rad-300       |
| Lead-210     | Bq/L         | Rad-101       |
| Radium-226   | Bq/L         | Rad-105       |
| Radon-222    | Bq/L         | Rad-116       |
| Strontium-90 | Bq/L         | Rad-112       |
| Tritium      | Bq/L         | Rad-122       |