

## 2.1.1 SUMMARY OF PARAMETERS FOR EDMONTON DRINKING WATER

Water Treatment Plants

June 2025



| Parameter (Units)                          | #  | Mean     | Range           | YTD # | YTD Mean | YTD Range         |
|--------------------------------------------|----|----------|-----------------|-------|----------|-------------------|
| Alkalinity total (mg CaCO <sub>3</sub> /L) | 60 | 112.5    | 102.0 - 118.0   | 361   | 114.9    | 81.0 - 139.0      |
| Aluminum (mg/L)                            | 2  | 0.048    | 0.046 - 0.050   | 12    | 0.048    | 0.021 - 0.087     |
| Arsenic (mg/L)                             | 2  | <0.0002  | <0.0002         | 12    | 0.0002   | <0.0002           |
| Bromate Dissolved (mg/L)                   | 8  | <0.005   | <0.005          | 50    | <0.005   | <0.003 - <0.005   |
| Bromodichloromethane (µg/L)                | 60 | 1.6      | 0.9 - 2.6       | 362   | 1.0      | <0.5 - 2.6        |
| Cadmium (mg/L)                             | 2  | <0.00002 | <0.00002        | 12    | <0.00002 | <0.00002          |
| Calcium Hardness (mg/L CaCO <sub>3</sub> ) | 60 | 117.0    | 108.0 - 132.0   | 352   | 116.0    | 90.0 - 136.0      |
| Chlorate Dissolved (mg/L)                  | 8  | 0.24     | 0.09 - 0.43     | 50    | 0.19     | <0.1 - 0.49       |
| Chloride Dissolved (mg/L)                  | 8  | 7.0      | 5.8 - 8.6       | 50    | 6.78     | 4.59 - 14.20      |
| Chlorine total (mg/L)                      | 60 | 2.14     | 1.96 - 2.32     | 362   | 2.09     | 1.89 - 2.32       |
| Chlorite Dissolved (mg/L)                  | 8  | <0.005   | <0.005          | 50    | <0.2     | <0.005 - <0.2     |
| Chloroform (µg/L)                          | 60 | 41.0     | 23.3 - 82.8     | 362   | 17.1     | 3.5 - 82.8        |
| Chromium (mg/L)                            | 2  | <0.0002  | <0.0002         | 12    | 0.0002   | <0.0002           |
| Colour (TCU)                               | 60 | 1.0      | <0.5 - 1.8      | 362   | 0.9      | <0.5 - 2.7        |
| Conductivity (µS/cm)                       | 8  | 410.6    | 380.0 - 436.0   | 50    | 400.0    | 358.0 - 476.0     |
| Copper (mg/L)                              | 2  | <0.002   | <0.002          | 12    | 0.002    | <0.002            |
| Cryptosporidium (oocysts/100L)             | 2  | <0.1     | <0.1            | 12    | <0.1     | <0.09 - <0.1      |
| Fluoride (mg/L)                            | 60 | 0.70     | 0.60 - 0.76     | 361   | 0.68     | 0.59 - 0.78       |
| Giardia (cysts/100L)                       | 2  | <0.1     | <0.1            | 12    | <0.1     | <0.09 - <0.1      |
| Haloacetic acids total (HAA5) (µg/L)       | 1  | 30.1     | 30.1            | 11    | 17.1     | 7.8 - 30.4        |
| Iron (mg/L)                                | 2  | <0.005   | <0.005          | 12    | <0.005   | <0.005            |
| Manganese (mg/L)                           | 2  | <0.002   | <0.002          | 12    | 0.002    | <0.002 - 0.005    |
| Mercury (µg/L)                             |    |          |                 | 4     | <0.0050  | <0.0050           |
| Mercury (mg/L)                             | 2  | <0.0002  | <0.0002         | 12    | 0.0002   | <0.0002           |
| Nitrate (as N) dissolved (mg/L)            | 8  | 0.01     | <0.01 - 0.03    | 48    | 0.07     | <0.01 - 0.18      |
| Nitrite (as N) dissolved (mg/L)            | 8  | 0.01     | <0.01           | 48    | 0.01     | <0.01 - 0.01      |
| Nitrosodimethylamine, N- [NDMA] (µg/L)     | 1  | <0.0009  | <0.0009         | 11    | <0.0018  | <0.0009 - <0.0018 |
| pH                                         | 60 | 8        | 8               | 361   | 8        | 8                 |
| Potassium (mg/L)                           | 2  | 0.8      | 0.8             | 12    | 1.0      | 0.6 - 1.9         |
| Sodium (mg/L)                              | 2  | 15.6     | 13.9 - 17.3     | 12    | 13.9     | 6.3 - 27.2        |
| Sulphate Dissolved (mg/L)                  | 8  | 80.6     | 72.8 - 88.4     | 50    | 75.3     | 59.3 - 116.0      |
| Total Dissolved Solids (mg/L)              | 2  | 266.50   | 266.00 - 267.00 | 12    | 224.00   | 52.00 - 267.00    |
| Total Hardness (mg/L CaCO <sub>3</sub> )   | 60 | 176.9    | 166.0 - 187.0   | 362   | 175.3    | 131.0 - 212.0     |
| Total Organic Carbon (mg/L)                | 8  | 2.2      | 1.7 - 2.8       | 50    | 1.6      | 0.8 - 3.4         |
| Trihalomethanes (µg/L)                     | 60 | 42.7     | 24.7 - 84.7     | 362   | 18.2     | 4.3 - 84.7        |
| Turbidity (NTU)                            | 60 | 0.06     | <0.04 - 0.15    | 362   | 0.06     | <0.04 - 0.52      |
| Uranium (mg/L)                             | 2  | <0.0005  | <0.0005         | 12    | 0.0005   | <0.0005 - 0.0006  |
| Zinc (mg/L)                                | 2  | <0.005   | <0.005          | 12    | <0.005   | <0.005            |