

**2.1.2 SUMMARY OF MAJOR CHEMICALS, MICROBIOLOGICAL, AND PHYSICAL
PARAMETERS OF EDMONTON DRINKING WATER PRODUCED
AT WATER TREATMENT PLANTS**

May 2024

| Parameter | Unit | Monthly Count | Monthly Average | YTD Median | YTD Min | YTD Max | YTD Count |
|-----------------------------|--------------|--------------------------|----------------------------|-----------------------|--------------------|--------------------|----------------------|
| Alkalinity Total | mg CaCO3/L | 60 | 113 | 118 | 8 | 141 | 300 |
| Aluminum | mg/L | 2 | 0.043 | 0.031 | 0.023 | 0.089 | 10 |
| Arsenic | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 10 |
| Bromate Dissolved | mg/L | 8 | <0.003 | <0.005 | <0.005 | <0.005 | 44 |
| Bromodichloromethane | µg/L | 60 | 1.2 | 0.9 | <0.5 | 1.9 | 302 |
| Cadmium | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 10 |
| Calcium Hardness | mg/L CaCO3 | 58 | 112 | 114 | 96 | 141 | 298 |
| Chlorate Dissolved | mg/L | 8 | 0.177 | 0.148 | <0.100 | 0.332 | 44 |
| Chloride Dissolved | mg/L | 8 | 7.71 | 6.24 | 4.78 | 12.10 | 44 |
| Chlorite Dissolved | mg/L | 8 | <0.20 | <0.20 | <0.20 | <0.20 | 44 |
| Chromium | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 10 |
| Colour | TCU | 60 | 1.1 | 0.9 | <0.5 | 1.9 | 300 |
| Conductivity | µS/cm | 8 | 403 | 400 | 342 | 453 | 44 |
| Copper | mg/L | 2 | <0.0020 | <0.0050 | <0.0050 | <0.0050 | 10 |
| Cryptosporidium | oocysts/100L | 2 | <0.1 | <0.1 | <0.1 | <0.1 | 6 |
| Fluoride | mg/L | 60 | 0.67 | 0.69 | 0.62 | 0.79 | 300 |
| Giardia | cysts/100L | 2 | <0.1 | <0.1 | <0.1 | <0.1 | 6 |
| Iron | mg/L | 2 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 10 |
| Lead | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 10 |
| Manganese | mg/L | 2 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 10 |
| Mercury | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 10 |
| Nitrate (as N) Dissolved | mg N/L | 8 | 0.06 | 0.08 | <0.01 | 0.17 | 44 |
| Nitrite (as N) Dissolved | mg N/L | 8 | <0.005 | <0.01 | <0.05 | 0.02 | 44 |
| pH | N/A | 60 | 7.9 | 7.9 | 7.6 | 8.2 | 301 |
| Potassium | mg/L | 2 | 1.00 | 0.80 | 0.70 | 1.10 | 10 |
| Sodium | mg/L | 2 | 14.63 | 10.80 | 6.80 | 17.00 | 10 |
| Sulphate Dissolved | mg/L | 8 | 76.9 | 73.7 | 59.5 | 95.1 | 44 |
| Total Chlorine | N/A | 60 | 2.07 | 2.12 | 1.87 | 2.34 | 300 |
| Total Dissolved Solids | mg/L | 2 | 230 | 229 | 220 | 252 | 10 |
| Total Hardness | mg/L CaCO3 | 58 | 167 | 174 | 145 | 218 | 298 |
| Total Organic Carbon | mg/L C | 8 | 2.3 | 1.3 | 0.9 | 2.8 | 44 |
| Trihalomethanes | µg/L | 60 | 21.4 | 10.7 | 5.1 | 32.7 | 302 |
| Turbidity | NTU | 60 | 0.05 | <0.04 | <0.04 | 0.09 | 300 |
| Uranium | mg/L | 2 | <0.0005 | <0.0005 | <0.0005 | 0.0006 | 10 |
| Zinc | mg/L | 2 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 10 |
| Bacteriological Data | | | | | | | |
| Coliforms, total | PA/100mL | 60 | Absent | Absent | Absent | Absent | 300 |
| E. coli | PA/100mL | 60 | Absent | Absent | Absent | Absent | 300 |