

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

August 2021

| Parameter | Unit | Monthly Count | Monthly Average | YTD Median | YTD Min | YTD Max | YTD Count |
|--------------------------------|--------------|--------------------------|----------------------------|-----------------------|--------------------|--------------------|----------------------|
| Alkalinity Total | mg CaCO3/L | 62 | 105 | 122 | 96 | 145 | 486 |
| Aluminum | mg/L | 2 | 0.171 | 0.086 | 0.029 | 0.179 | 16 |
| Arsenic | mg/L | 2 | 0.0002 | <0.0002 | <0.0002 | 0.0003 | 16 |
| Bromate Dissolved | mg/L | 10 | <0.005 | <0.005 | <0.005 | <0.005 | 76 |
| Bromodichloromethane | µg/L | 62 | <0.5 | <0.5 | <0.5 | 2.6 | 486 |
| Cadmium | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 16 |
| Calcium Hardness | mg CaCO3/L | 62 | 97 | 114 | 87 | 134 | 486 |
| Chlorate Dissolved | mg/L | 10 | 0.124 | 0.118 | 0.050 | 0.202 | 76 |
| Chloride Dissolved | mg/L | 10 | 5.38 | 5.78 | 2.96 | 10.80 | 76 |
| Chlorite Dissolved | mg/L | 10 | <0.01 | <0.01 | <0.01 | <0.01 | 76 |
| Chromium | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 16 |
| Colour | TCU | 62 | 0.5 | 0.8 | <0.5 | 2.4 | 486 |
| Conductivity | µS/cm | 10 | 323 | 384 | 314 | 455 | 70 |
| Copper | mg/L | 2 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 16 |
| Cryptosporidium | oocysts/100L | 2 | <0.1 | <0.1 | <0.1 | <0.1 | 27 |
| Fluoride | mg/L | 62 | 0.65 | 0.67 | 0.55 | 0.72 | 486 |
| Giardia | cysts/100L | 2 | <0.1 | <0.1 | <0.1 | <0.1 | 27 |
| Haloacetic Acids, total (HAA5) | ug/L | 2 | 12.5 | 19.0 | 9.6 | 27.4 | 16 |
| Hardness, Total | mg CaCO3/L | 62 | 149 | 174 | 137 | 203 | 486 |
| Iron | mg/L | 2 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 16 |
| Lead | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 16 |
| Manganese | mg/L | 2 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 16 |
| Mercury | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 16 |
| Nitrate (as N) Dissolved | mg/L | 10 | 0.061 | 0.070 | 0.050 | 0.175 | 76 |
| Nitrite (as N) Dissolved | mg/L | 10 | 0.04 | 0.02 | <0.01 | 0.05 | 76 |
| pH | N/A | 62 | 7.8 | 7.9 | 7.4 | 8.2 | 486 |
| Potassium | mg/L | 2 | 0.60 | 0.80 | 0.60 | 1.00 | 16 |
| Sodium | mg/L | 2 | 6.52 | 8.05 | 5.70 | 23.90 | 16 |
| Sulphate Dissolved | mg/L | 10 | 51.6 | 56.2 | 49.8 | 95.1 | 76 |
| Total Chlorine | mg/L | 62 | 2.08 | 2.05 | 1.44 | 2.49 | 486 |
| Total Dissolved Solids | mg/L | 2 | 199 | 229 | 195 | 272 | 16 |
| Total Organic Carbon | mg/L C | 10 | 0.8 | 1.3 | 0.7 | 3.0 | 70 |
| Trihalomethanes | mg/L | 62 | 0.010 | 0.013 | 0.004 | 0.037 | 486 |
| Turbidity | NTU | 62 | 0.04 | 0.04 | 0.02 | 0.17 | 486 |
| Uranium | mg/L | 2 | <0.0005 | <0.0005 | <0.0005 | 0.0006 | 16 |
| Zinc | mg/L | 2 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 16 |
| Bacteriological Data | | | | | | | |
| Coliforms, total | PA/100mL | 62 | Absent | Absent | Absent | Absent | 486 |
| E. coli | PA/100mL | 62 | Absent | Absent | Absent | Absent | 486 |