

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

February 2020

| Parameter | Unit | Monthly Count | Monthly Average | YTD Median | YTD Min | YTD Max | YTD Count |
|--------------------------------|--------------|------------------|--------------------|---------------|------------|------------|--------------|
| Alkalinity Total | mg CaCO3/L | 59 | 137 | 138 | 125 | 157 | 121 |
| Aluminum | mg/L | 2 | 0.048 | 0.044 | 0.026 | 0.092 | 4 |
| Arsenic | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 4 |
| Bromate Dissolved | mg/L | 16 | <0.00 | <0.01 | <0.01 | 0.02 | 34 |
| Bromodichloromethane | µg/L | 61 | 0.5 | <0.5 | <0.5 | 0.9 | 123 |
| Cadmium | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 4 |
| Calcium Hardness | mg CaCO3/L | 59 | 112 | 115 | 95 | 136 | 121 |
| Chlorate Dissolved | mg/L | 16 | 0.125 | <0.100 | <0.100 | 0.200 | 34 |
| Chloride Dissolved | mg/L | 16 | 5.37 | 5.32 | 4.74 | 7.29 | 34 |
| Chlorite Dissolved | mg/L | 16 | <0.20 | <0.20 | <0.20 | <0.20 | 34 |
| Chromium | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 4 |
| Colour | TCU | 59 | 1.3 | 1.4 | <0.5 | 2.7 | 121 |
| Conductivity | µS/cm | 8 | 390 | 391 | 366 | 429 | 16 |
| Copper | mg/L | 2 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 4 |
| Cryptosporidium | oocysts/100L | 2 | <0.1 | <0.1 | <0.1 | <0.1 | 4 |
| Fluoride | mg/L | 58 | 0.31 | 0.65 | 0.07 | 0.72 | 120 |
| Giardia | cysts/100L | 2 | <0.1 | <0.1 | <0.1 | <0.1 | 4 |
| Haloacetic Acids, total (HAA5) | ug/L | 2 | 12.5 | 13.7 | 7.3 | 18.3 | 4 |
| Hardness, Total | mg CaCO3/L | 59 | 181 | 181 | 169 | 203 | 121 |
| Iron | mg/L | 2 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 4 |
| Lead | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 4 |
| Manganese | mg/L | 2 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 4 |
| Mercury | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 4 |
| NDMA | ng/L | 2 | 0.62 | 0.62 | <0.50 | 0.74 | 4 |
| Nitrate (as N) Dissolved | mg/L | 16 | 0.098 | 0.090 | 0.060 | 0.110 | 34 |
| Nitrite (as N) Dissolved | mg/L | 16 | <0.01 | <0.01 | <0.01 | <0.01 | 34 |
| pH | N/A | 59 | 7.9 | 8.0 | 7.3 | 8.1 | 121 |
| Potassium | mg/L | 2 | 0.63 | 0.60 | 0.60 | 0.70 | 4 |
| Sodium | mg/L | 2 | 9.00 | 9.30 | 7.40 | 12.00 | 4 |
| Sulphate Dissolved | mg/L | 16 | 53.7 | 54.3 | 49.0 | 77.0 | 34 |
| Total Chlorine | N/A | 9 | 2.01 | 2.02 | 1.90 | 2.16 | 19 |
| Total Dissolved Solids | mg/L | 2 | 237 | 225 | 207 | 243 | 4 |
| Total Organic Carbon | mg/L C | 8 | 1.8 | 1.9 | 1.3 | 2.4 | 16 |
| Trihalomethanes | mg/L | 59 | 0.015 | 0.015 | 0.005 | 0.021 | 121 |
| Turbidity | NTU | 59 | 0.05 | 0.05 | 0.02 | 0.08 | 121 |
| Uranium | mg/L | 2 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 4 |
| Zinc | mg/L | 2 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 4 |
| Bacteriological Data | | | | | | | |
| Coliforms, total | PA/100mL | 59 | Absent | Absent | Absent | Absent | 121 |
| E. coli | PA/100mL | 59 | Absent | Absent | Absent | Absent | 121 |