



## Water Quality 2015

### 2.1.2 SUMMARY OF MAJOR CHEMICALS, MICROBIOLOGICAL, AND PHYSICAL PARAMETERS OF EDMONTON DRINKING WATER

June 2015

| Parameter                      | Unit                    | Monthly Count | Monthly Average | YTD Median | YTD Min | YTD Max | YTD Count |
|--------------------------------|-------------------------|---------------|-----------------|------------|---------|---------|-----------|
| Alkalinity, total              | mg CaCO <sub>3</sub> /L | 60            | 115             | 118        | 90      | 139     | 362       |
| Aluminum                       | mg/L                    | 2             | 0.089           | 0.073      | 0.024   | 0.098   | 12        |
| Arsenic                        | mg/L                    | 2             | 0.0003          | <0.0002    | <0.0002 | 0.0004  | 12        |
| Bromate, dissolved             | mg/L                    | 10            | <0.005          | <0.005     | <0.005  | <0.005  | 56        |
| Bromodichloromethane           | ug/L                    | 60            | 0.8             | 0.7        | <0.5    | 1.3     | 362       |
| Cadmium                        | mg/L                    | 2             | <0.0001         | <0.0001    | <0.0001 | <0.0001 | 12        |
| Chlorate, dissolved            | mg/L                    | 10            | 0.09            | 0.09       | <0.01   | 0.21    | 56        |
| Chloride, dissolved            | mg/L                    | 10            | 4.90            | 4.87       | 2.81    | 11.40   | 56        |
| Chlorine, total                | mg/L                    | 60            | 1.98            | 2.00       | 1.85    | 2.18    | 362       |
| Chlorite, dissolved            | mg/L                    | 10            | <0.005          | <0.005     | <0.005  | <0.005  | 56        |
| Chromium                       | mg/L                    | 2             | 0.0003          | <0.0002    | <0.0002 | 0.0003  | 12        |
| Colour                         | TCU                     | 60            | <1              | <1         | <1      | 1       | 362       |
| Conductivity                   | uS/cm                   | 10            | 372             | 371        | 347     | 405     | 62        |
| Copper                         | mg/L                    | 2             | <0.002          | <0.002     | <0.002  | <0.002  | 12        |
| Cryptosporidium                | oocysts/100L            | 2             | <0.1            | <0.1       | <0.1    | <0.1    | 12        |
| Fluoride, dissolved            | mg/L                    | 60            | 0.68            | 0.71       | 0.63    | 0.78    | 362       |
| Giardia                        | cysts/100L              | 2             | <0.1            | <0.1       | <0.1    | <0.1    | 12        |
| Haloacetic Acids, total (HAA5) | ug/L                    | 2             | 18.3            | 19.3       | 13.2    | 21.2    | 12        |
| Hardness, Calcium              | mg CaCO <sub>3</sub> /L | 60            | 117             | 117        | 95      | 136     | 362       |
| Hardness, total                | mg CaCO <sub>3</sub> /L | 60            | 171             | 170        | 145     | 190     | 362       |
| Iron                           | mg/L                    | 2             | 0.003           | <0.002     | <0.002  | 0.008   | 12        |
| Lead                           | mg/L                    | 2             | <0.0001         | <0.0001    | <0.0001 | <0.0001 | 12        |
| Manganese                      | mg/L                    | 2             | <0.002          | <0.002     | <0.002  | 0.003   | 12        |
| Mercury                        | mg/L                    | 2             | 0.0001          | <0.0001    | <0.0001 | 0.0002  | 12        |
| NDMA                           | ng/L                    | 2             | 1.6             | 1.2        | <0.9    | 2.8     | 12        |
| Nitrate (as N), dissolved      | mg/L                    | 10            | 0.04            | 0.08       | <0.01   | 0.21    | 56        |
| Nitrite (as N), dissolved      | mg/L                    | 10            | <0.01           | <0.01      | <0.01   | <0.01   | 56        |
| pH                             | N/A                     | 60            | 7.7             | 7.8        | 7.0     | 8.2     | 362       |
| Potassium                      | mg/L                    | 2             | 0.68            | 0.68       | 0.59    | 1.52    | 12        |
| Sodium                         | mg/L                    | 2             | 7.5             | 7.1        | 3.2     | 20.1    | 12        |
| Sulphate, dissolved            | mg/L                    | 10            | 68.7            | 65.9       | 43.4    | 83.2    | 56        |
| Total Dissolved Solids         | mg/L                    | 2             | 217             | 217        | 193     | 246     | 12        |
| Total Organic Carbon           | mg/L C                  | 10            | 1.4             | 1.4        | 0.9     | 2.6     | 62        |
| Trihalomethanes                | mg/L                    | 60            | 0.015           | 0.010      | 0.002   | 0.025   | 362       |
| Turbidity                      | NTU                     | 60            | 0.08            | 0.07       | 0.05    | 0.13    | 362       |
| Uranium                        | mg/L                    | 2             | <0.0005         | <0.0005    | <0.0005 | 0.0005  | 12        |
| Zinc                           | mg/L                    | 2             | <0.002          | <0.002     | <0.002  | 0.005   | 12        |

#### Bacteriological Data

|                  |           |    |        |        |        |     |
|------------------|-----------|----|--------|--------|--------|-----|
| Coliforms, total | PA/100 mL | 60 | Absent | Absent | Absent | 362 |
| E. coli          | PA/100 mL | 60 | Absent | Absent | Absent | 362 |