

**EPCOR**  
**WATER QUALITY 2007**

**2.1.1. SUMMARY OF MAJOR CHEMICAL, MICROBIOLOGICAL AND PHYSICAL  
PARAMETERS OF EDMONTON DRINKING WATER  
March 2007**

| Parameters              | Unit                    | Monthly<br>Average | 2007<br>Median | 2007 Range |          |
|-------------------------|-------------------------|--------------------|----------------|------------|----------|
|                         |                         |                    |                | Min        | Max      |
| Aluminum                | mg/L                    | 0.035              | 0.039          | 0.030      | 0.052    |
| Arsenic                 | mg/L                    | <0.0002            | 0.0002         | <0.0002    | 0.0004   |
| Cadmium                 | mg/L                    | <0.00001           | <0.00001       | <0.00001   | <0.00001 |
| Calcium Hardness        | mg CaCO <sub>3</sub> /L | 120                | 124            | 110        | 145      |
| Chloride                | mg/L                    | 4.4                | 2.7            | 2.4        | 10.6     |
| Chromium                | mg/L                    | <0.0005            | <0.0005        | <0.0005    | <0.0005  |
| Colour                  | TCU                     | 1                  | <1             | <1         | 1        |
| Conductivity            | microseimens/cm         | 367                | 367            | 342        | 414      |
| Copper                  | mg/L                    | <0.001             | <0.001         | <0.001     | <0.001   |
| <i>Cryptosporidium</i>  | oocysts/100L            | <0.1               | <0.1           | <0.1       | <0.1     |
| Fluoride                | mg/L                    | 0.80               | 0.80           | 0.75       | 0.87     |
| <i>Giardia</i>          | cysts/100L              | <0.1               | <0.1           | <0.1       | <0.1     |
| Iron                    | mg/L                    | <0.1               | <0.1           | <0.1       | <0.1     |
| Lead                    | mg/L                    | <0.0001            | <0.0001        | <0.0001    | <0.0001  |
| Manganese               | mg/L                    | <0.005             | <0.005         | <0.005     | <0.005   |
| Mercury                 | mg/L                    | <0.0001            | <0.0001        | <0.0001    | <0.0001  |
| Nitrate(as N)           | mg/L                    | 0.104              | 0.088          | 0.075      | 0.175    |
| Nitrite(as N)           | mg/L                    | 0.005              | <0.005         | <0.005     | 0.006    |
| Potassium               | mg/L                    | 0.7                | 0.7            | 0.7        | 0.7      |
| Sodium                  | mg/L                    | 5.9                | 6.2            | 5.6        | 7.1      |
| Sulphate                | mg/L                    | 63.2               | 60.6           | 57.3       | 95.3     |
| Temperature             | Deg Celsius             | 0.6                | 0.5            | 0.2        | 1.0      |
| Total Alkalinity        | mg CaCO <sub>3</sub> /L | 118                | 124            | 94         | 141      |
| Total Dissolved Solids  | mg/L                    | 212                | 215            | 212        | 225      |
| Total Hardness          | mg CaCO <sub>3</sub> /L | 173                | 180            | 158        | 196      |
| Total Organic Carbon    | mg/L as C               | 1.3                | 1.3            | 1.0        | 1.6      |
| Total Residual Chlorine | mg/L                    | 1.96               | 1.95           | 1.80       | 2.08     |
| Trihalomethanes         | mg/L                    | 0.007              | 0.008          | 0.003      | 0.013    |
| Turbidity               | NTU                     | 0.05               | 0.05           | 0.03       | 0.08     |
| UV Abs (254 nm)         | UV Abs/M                | 1.0                | 1.3            | 0.4        | 2.6      |
| Uranium                 | mg/L                    | <0.0005            | <0.0005        | <0.0005    | <0.0005  |
| Zinc                    | mg/L                    | 0.004              | 0.003          | <0.001     | 0.008    |
| pH                      | pH Units                | 7.7                | 7.7            | 7.4        | 7.9      |

**Bacteriological Data**

|                 |           |        |        |        |
|-----------------|-----------|--------|--------|--------|
| <i>E.coli</i>   | PA/100 mL | Absent | Absent | Absent |
| Total Coliforms | PA/100 mL | Absent | Absent | Absent |