



Glenmore Comprehensive Water Quality Results

Water for the Glenmore Valley, which includes Wilden, Quail Ridge, UBCO and the Sexsmith area is supplied from Okanagan Lake (March 2014) via McKinley Reservoir and is supplemented with groundwater from Airport Well.

| Parameter | Sept 6/13 | Sept 5/14 | Sept 17/15 | Sept 25/16 | Units | Canadian Guidelines for Drinking Water |
|---|-----------|-----------|------------|------------|---------------|--|
| General Inorganic Parameters | | | | | | |
| Alkalinity (total) | 80 | 102 | 107 | 112 | mg/l as CaCo3 | No Guideline |
| Hardness (total) | 104 | 122 | 132 | 135 | mg/L as CaCo3 | No Guideline |
| Chloride | 14.5 | 8.57 | 8.66 | 9.07 | mg/L | AO <250 |
| Color (true) | 10 | <5 | <5 | <5 | Color Units | AO<15 TCU |
| Conductivity@ 25 | 230 | 291 | 292 | 302 | Umhos/cm | No Guideline |
| Cyanide | <0.010 | <0.010 | <0.010 | <0.0020 | mg/L | MAC < 0.2 |
| Fluoride | 0.12 | 0.13 | 0.14 | 0.13 | mg/L | MAC < 1.5 |
| Nitrite | <0.010 | <0.010 | <0.010 | <0.010 | mg/L as N | MAC < 1 |
| Nitrate | 0.177 | <0.010 | <0.010 | <0.010 | mg/L as N | MAC < 10 |
| pH | 7.47 | 7.65 | 7.85 | 7.92 | pH units | AO=6.5-8.5 |
| Sulphate | 9.2 | 30.6 | 29.1 | 29.7 | mg/L | AO <500 |
| Dissolved Solids (total) | 120 | 158 | 165 | 170 | mg/L | AO <500 |
| Turbidity | 1.8 | 0.6 | 1.0 | 1.1 | NTU | <1 |
| Transmissivity @ 254nm | 70.3 | 91.1 | 90.7 | N/A | No Guideline | |
| <p><i>Turbidity of 0.0 to 1.0 NTU is considered "Good" by IHA</i> <i>Turbidity of 1.0 to 5.0 NTU is considered "Fair" by IHA = Water Quality Advisory</i> <i>Turbidity of >5.0 NTU is considered "Poor" by IHA = Boil Water Notice</i></p> | | | | | | |
| Microbiological Parameters | | | | | | |
| Total Coliform | 430 | <1 | <1 | <1 | CFU/100ml | MAC <1 |
| E. coli | <1 | <1 | <1 | <1 | CFU/100ml | MAC <1 |

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| Total Recoverable Metals by ICPMS | | | | | | |
|--|------------------|------------------|-------------------|-------------------|--------------|---|
| Parameter | Sept-6/13 | Sept 5/14 | Sept 17/15 | Sept 25/17 | Units | Canadian Guidelines for Drinking Water |
| Aluminum | <0.05 | <0.05 | <0.05 | <0.05 | mg/L | OG <0.1 |
| Antimony | <0.001 | <0.001 | <0.001 | <0.001 | mg/L | MAC =0.006 |
| Arsenic | <0.005 | <0.005 | <0.005 | <0.005 | mg/L | MAC = 0.01 |
| Barium | <0.05 | <0.05 | <0.05 | <0.05 | mg/L | MAC =1 |
| Beryllium | <0.001 | <0.001 | <0.001 | N/A | mg/L | No Guideline |
| Boron | <0.04 | <0.04 | <0.04 | 0.112 | mg/L | MAC =5 |
| Cadmium | <0.0001 | <0.0001 | <0.0001 | <0.0001 | mg/L | MAC =0.005 |
| Calcium | 28 | 33.1 | 36.1 | 34.7 | mg/L | No Guideline |
| Chromium | <0.005 | <0.005 | <0.005 | <0.005 | mg/L | MAC =0.05 |
| Cobalt | <0.0005 | <0.0005 | <0.0005 | <0.0005 | mg/L | No Guideline |
| Copper (Total) | 0.003 | 0.005 | 0.007 | 0.0045 | mg/L | AO ≤1 |
| Iron | 0.2 | <0.10 | <0.10 | <0.10 | mg/L | AO ≤0.3 |
| Lead | <0.001 | <0.001 | <0.001 | <0.001 | mg/L | MAC =0.01 |
| Magnesium | 8.2 | 9.5 | 10.3 | 11.7 | mg/L | No Guideline |
| Manganese | 0.083 | 0.013 | 0.017 | 0.0138 | mg/L | AO ≤0.05 |
| Mercury | <0.0002 | <0.0002 | <0.00002 | <0.00002 | mg/L | MAC =0.001 |
| Molybdenum | 0.001 | 0.003 | 0.003 | 0.0034 | mg/L | No Guideline |
| Nickel | <0.002 | <0.002 | <0.002 | <0.002 | mg/L | No Guideline |
| Phosphorus | <0.2 | <0.2 | <0.2 | N/A | mg/L | No Guideline |
| Potassium | 1.5 | 2.3 | 2.6 | 2.86 | mg/L | No Guideline |
| Selenium | <0.005 | <0.005 | <0.005 | <0.005 | mg/L | MAC =0.05 |
| Silicon | 5 | <5 | <5 | N/A | mg/L | No Guideline |
| Silver | <0.0005 | <0.0005 | <0.0005 | N/A | mg/L | No Guideline |
| Sodium | 9.0 | 11.6 | 12.4 | 13.8 | mg/L | AO ≤200 |
| Uranium | 0.0012 | 0.0022 | 0.0022 | 0.00231 | mg/L | MAC =0.02 |
| Zinc | <0.04 | <0.04 | <0.04 | <0.04 | mg/L | AO≤5 |
| MAC = Maximum Acceptable Concentration AO = Aesthetic Objective | | | | | | |

Comprehensive analysis reflects Okanagan Lake water as of March 2014.