



## Glenmore Comprehensive Water Quality Results

Water for the Glenmore Valley, which includes Wilden, Quail Ridge, UBCO, the Sexsmith area and the Kelowna International Airport, is supplied from the McKinley Reservoir and is supplemented with groundwater from several wells.

Parameter	Sept. 24/07	Sept. 8/08	Oct. 7/09	Oct. 15/10	Sept. 8/11	Units	Canadian Guidelines for Drinking Water
<b>General Inorganic Parameters</b>							
Alkalinity (total)	70	63.7	78.5	62.8	65.8	mg/l as CaCo <sub>3</sub>	No Guideline
Hardness (total)	86.3	77.6	92.5	77.4	79.4	mg/L as CaCo <sub>3</sub>	No Guideline
Chloride	11.3	14.1	14.4	18.9	12.5	mg/L	AO <250
Color (true)	<5	9	<5	6	9	Color Units	AO<15 TCU
Conductivity@ 25	198	188	217	197	181	Umhos/cm	No Guideline
Cyanide	<0.01	<0.01	<0.01	<0.01	<0.01	mg/L	MAC < 0.2
Fluoride	<0.10	<0.10	0.11	0.12	0.10	mg/L	MAC < 1.5
Nitrite	<0.010	0.18	<0.01	0.06	<0.01	mg/L as N	MAC < 1
Nitrate	0.339	<0.01	0.36	<0.01	0.251	mg/L as N	MAC < 10
pH	6.6	6.6	7.51	7.47	7.49	pH units	AO=6.5-8.5
Sulphate	7.8	7.5	9.0	7.7	8.5	mg/L	AO <500
Dissolved Solids (total)	122	130	144	120	96	mg/L	AO <500
Turbidity	1.4	2.3	2.0	1.3	1.4	NTU	<1
Transmissivity @ 254nm		63.3	75.3	70.4	69.3	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 &gt;5.0 NTU is considered "Poor" by IHA = Boil Water Notice</i></p>							
<b>Microbiological Parameters</b>							
Total Coliform	<1	<1	<1	<1	<1	CFU/100ml	MAC <1
E. coli	<1	<1	<1	<1	<1	CFU/100ml	MAC <1

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<b>Total Recoverable Metals by ICPMS</b>							
<b>Parameter</b>	<b>Sept. 24/07</b>	<b>Sept. 8/08</b>	<b>Oct. 7/09</b>	<b>Oct 15/10</b>	<b>Sept 8/11</b>	<b>Units</b>	<b>Canadian Guidelines for Drinking Water</b>
<b>Aluminum</b>	0.02	<0.050	<0.050	<0.050	0.056	mg/L	
Antimony	<0.0006	<0.0030	<0.0010	<0.0010	<0.0010	mg/L	MAC <0.007
Arsenic	<0.001	<0.0050	<0.0050	<0.0050	<0.0050	mg/L	MAC < 0.01
Barium	0.014	0.015	0.0187	0.0160	<0.050	mg/L	MAC <1
Beryllium		<0.0020	<0.0010	<0.0010	<0.0010	mg/L	No Guideline
Boron	0.004	<0.020	<0.020	<0.040	<0.040	mg/L	MAC <5
Cadmium	<0.00001	<0.00010	<0.00010	<0.00010	<0.00010	mg/L	MAC <0.005
Calcium	22.3	20.4	24.9	20.3	21.4	mg/L	No Guideline
Chromium	<0.001	<0.015	<0.0050	<0.0050	<0.0050	mg/L	MAC <0.05
Cobalt		<0.0005	<0.00050	<0.00050	<0.00050	mg/L	No Guideline
Copper (Total)	0.06	0.0828	0.103	0.115	0.0468	mg/L	AO <1
Iron	0.16	<0.20	0.10	<0.10	0.16	mg/L	AO <0.3
Lead	<0.0002	<0.0010	<0.0010	<0.0010	<0.0010	mg/L	MAC <0.01
Magnesium	7.42	6.49	7.36	6.49	6.32	mg/L	No Guideline
Manganese	0.063	0.0514	0.0611	0.0517	0.0679	mg/L	AO <0.05
Mercury	<0.00005	<0.00030	<0.00050	<0.00050	<0.00020	mg/L	MAC <0.001
Molybdenum	0.0006	<0.0010	<0.0010	<0.0010	<0.0010	mg/L	No Guideline
Nickel		<0.005	<0.0020	<0.0020	<0.0020	mg/L	No Guideline
Phosphorus		<0.20	<0.20	<0.20	<0.20	mg/L	No Guideline
Potassium	1.26	1.21	1.30	1.22	1.07	mg/L	No Guideline
Selenium	<0.001	<0.0050	<0.0030	<0.0030	<0.0050	mg/L	MAC <0.01
Silicon	1.3	6.3	6.3	<2.0	<5.0	mg/L	No Guideline
Silver		<0.00040	<0.00050	<0.00050	<0.00050	mg/L	No Guideline
Sodium	6.44	6.12	7.31	10.5	6.40	mg/L	AO <200
Uranium	0.0006	0.0007	0.00097	0.00060	0.00073	mg/L	MAC <0.02
Zinc	<0.005	<0.010	<0.010	0.035	<0.040	Mg/L	AO<5

MAC = Maximum Acceptable Concentration

AO = Aesthetic Objective