



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.