

Outback Intake Water Quality 2022

Water System:	Greater Vernon Water
Source:	Okanagan Lake
Facility:	Outback Lake Station
Sampling Point:	Outback Lake Station (1729C)
Date of Sample:	7/25/2022



		Canadian Drinking Water Guidelines	
Anions	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Chloride	5.42		<250
Fluoride	0.17	1.5	
Nitrate (As N)	0.059	10	
Nitrite (as N)	< 0.010	1	
Sulphate	30.2		≤500
General Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Alkalinity, Bicarbonate (as CaCO ₃)	121	N/A	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	
Alkalinity, Total (as CaCO ₃)	121	N/A	
Carbon, Dissolved Organic	4.01	N/A	
Carbon, Total Organic	4.31	N/A	
Chlorophyll a	1.3	N/A	
Colour, True	6.9	N/A	≤15 TCU
Conductivity (EC)	280	N/A	
Cyanide, Total	< 0.0020	0.2	
Nitrogen, Total Kjeldahl	0.224	N/A	
pH	8.10	N/A	7.0 - 10.5
Phosphorus, Total (as P)	0.0076	N/A	
Phosphorus, Total Dissolved	0.0062	N/A	
Turbidity	0.33		OG <1
Calculated Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Hardness, Total	127	N/A	
Total Dissolved Solids	174		≤500
Total Metals	Results (mg/L unless noted)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Aluminum, total	0.009	N/A	OG ≤0.1
Antimony, total	< 0.00020	0.006	
Arsenic, total	<0.00050	0.01	
Barium, total	0.0204	1	
Boron, total	< 0.0500	5	
Cadmium, total	<0.000010	0.005	
Calcium, total	34.5	N/A	
Chromium, total	< 0.00050	0.05	
Cobalt, total	< 0.00010	N/A	
Copper, total	0.00123	2	<1
Iron, total	< 0.010	N/A	≤0.3
Lead, total	< 0.00020	0.005	
Magnesium, total	9.76	N/A	
Manganese, total	0.00103	0.12	≤0.02
Mercury, total	< 0.000010	0.001	
Molybdenum, total	0.00332	N/A	
Nickel, total	0.00059	N/A	
Potassium, total	2.44	N/A	
Selenium, total	< 0.00050	0.05	
Sodium, total	11.6	N/A	≤200
Strontium, total	0.268	7	
Uranium, total	0.00248	0.02	
Zinc, total	0.0054	N/A	≤5

Notes: No current Guideline ; Reference Health Canada

Hardness - no guideline - "Hardness Levels between 80 and 100 mg/L as CaCO₃ are considered acceptable; levels greater than 200 are considered poor but can be tolerated; those in excess of 500 are normally considered unacceptable.

Turbidity - 1 NTU when disinfection required; <5 NTU aesthetic clarity

"<" = less than detection limit shown

">" = greater than upper range limit shown

"<" = less than number shown (Detected)

">" = greater than number shown (Detected)

* Criteria Exceeded