

## Delcliffe Intake Water Quality 2022

Water System:	Greater Vernon Water
Source:	Okanagan Lake
Facility:	Delcliffe
Sampling Point:	Delcliffe Intake
Date of Sample:	7/25/2022



**REGIONAL DISTRICT  
NORTH OKANAGAN**

		Canadian Drinking Water Guidelines	
Anions	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Chloride	5.46		<250
Fluoride	0.18	1.5	
Nitrate (As N)	< 0.010	10	
Nitrite (as N)	< 0.010	1	
Sulphate	29.7		≤500
General Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )	132	N/A	
Alkalinity, Carbonate (as CaCO <sub>3</sub> )	<1.0	N/A	
Alkalinity, Hydroxide (as CaCO <sub>3</sub> )	< 1.0	N/A	
Alkalinity, Phenolphthalein (as CaCO <sub>3</sub> )	<1.0	N/A	
Alkalinity, Total (as CaCO <sub>3</sub> )	132	N/A	
Carbon, Dissolved Organic	4.33	N/A	
Carbon, Total Organic	4.83	N/A	
Chlorophyll a	0.61	N/A	
Colour, True	7.7	N/A	≤15 TCU
Conductivity (EC)	276	N/A	
Cyanide, Total	< 0.0020	0.2	
Nitrogen, Total Kjeldahl	0.236	N/A	
pH	8.16	N/A	7.0 - 10.5
Phosphorus, Total (as P)	0.0089	N/A	
Phosphorus, Total Dissolved	<0.0050	N/A	
Turbidity	0.9		OG <1
Calculated Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Hardness, Total	126	N/A	
Total Dissolved Solids	167		≤500
Total Metals	Results (mg/L unless noted)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Aluminum, total	0.0208	N/A	OG ≤0.1
Antimony, total	< 0.00020	0.006	
Arsenic, total	<0.00050	0.01	
Barium, total	0.0205	1	
Boron, total	< 0.0500	5	
Cadmium, total	< 0.000010	0.005	
Calcium, total	34.3	N/A	
Chromium, total	< 0.00050	0.05	
Cobalt, total	< 0.00010	N/A	
Copper, total	0.00224	2	<1
Iron, total	0.023	N/A	≤0.30
Lead, total	0.0002	0.005	
Magnesium, total	9.84	N/A	
Manganese, total	0.00168	0.12	≤0.02
Mercury, total	< 0.000010	0.001	
Molybdenum, total	0.00322	N/A	
Nickel, total	0.00066	N/A	
Potassium, total	2.44	N/A	
Selenium, total	< 0.00050	0.05	
Sodium, total	11.3	N/A	≤200
Strontium, total	0.267	7	
Uranium, total	0.00243	0.02	
Zinc, total	<0.0040	N/A	≤5

*Notes: No current Guideline ; Reference Health Canada*

*Hardness - no guideline - \*Hardness Levels between 80 and 100 mg/L as CaCO<sub>3</sub> 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*

*"α" = less than number shown (Detected)*

*"β" = greater than number shown (Detected)*

*\* Criteria Exceeded*