

Haddo Weir Water Quality 2022

Water System: **Greater Vernon Water**
 Source: **Duteau Creek**
 Sampling Point: **Haddo Weir (6A16)**
 Date of Sample: **7/20/2022**



**REGIONAL DISTRICT
NORTH OKANAGAN**

		Canadian Drinking Water Guidelines	
Anions	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Chloride	0.11		≤250
Fluoride	< 0.10	1.5	
Nitrate (As N)	< 0.010	10	
Nitrite (as N)	< 0.010	1	
Sulphate	2.3		≤500
General Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Alkalinity, Bicarbonate (as CaCO ₃)	11.4	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)	11.4	N/A	
Carbon, Dissolved Organic	N/A	N/A	
Carbon, Total Organic	9.95	N/A	
Chlorophyll a	4.09	N/A	
Colour, True	62	N/A	≤ 15 TCU
Conductivity (EC)	31.9	N/A	
Cyanide, Total	< 0.0020	0.2	
Nitrogen, Total Kjeldahl	0.351	N/A	
pH	6.94	N/A	7.0 - 10.5
Phosphorus, Total (as P)	0.0182	N/A	
Phosphorus, Total Dissolved	0.0124	N/A	
Turbidity	0.99		OG <1
Calculated Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Hardness (Total)	13.5	N/A	
Total Dissolved Solids	35		≤500
Total Metals	Results (mg/L unless noted)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Aluminum, total	0.147	N/A	OG ≤0.1
Antimony, total	<0.0002	0.006	
Arsenic, total	<0.0005	0.01	
Barium, total	0.0138	1	
Boron, total	< 0.0500	5	
Cadmium, total	< 0.000010	0.005	
Calcium, total	3.58	N/A	
Chromium, total	< 0.00050	0.05	
Cobalt, total	< 0.00010	N/A	
Copper, total	0.00138	2	<1
Iron, total	0.197	N/A	≤0.30
Lead, total	< 0.00020	0.005	
Magnesium, total	1.11	N/A	
Manganese, total	0.0198	0.12	≤0.02
Mercury, total	< 0.000010	0.001	
Molybdenum, total	0.00017	N/A	
Nickel, total	0.00149	N/A	
Potassium, total	0.78	N/A	
Selenium, total	< 0.00050	0.05	
Sodium, total	1.43		≤200
Strontium, total	0.0264	7	
Uranium, total	0.000054	0.02	
Zinc, total	< 0.0040		≤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*