

Allenby PS Water Quality 2022

Water System:	Greater Vernon Water
Source:	Kalamalka Lake
Facility:	MHWTP
Sampling Point:	Allenby PS (280F5)
Date of Sample:	7/12/2022



Anions	Results (mg/L)	Canadian Drinking Water Guidelines	
		Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Chloride	15.60		≤250
Fluoride	0.24	1.5	
Nitrate (As N)	0.056	10	
Nitrite (as N)	<0.010	1	
Sulphate	50.7		≤500
General Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Alkalinity, Bicarbonate (as CaCO3)	170	N/A	
Alkalinity, Carbonate (as CaCO3)	<1.0	N/A	
Alkalinity, Hydroxide (as CaCO3)	<1.0	N/A	
Alkalinity, Phenolphthalein (as CaCO3)	<1.0	N/A	
Alkalinity, Total (as CaCO3)	170	N/A	
Carbon, Dissolved Organic	4.02	N/A	
Carbon, Total Organic	4.18	N/A	
Colour, True	< 5.0		≤15
Conductivity (EC)	423	N/A	
Cyanide, Total	< 0.0020	0.2	
Nitrogen, Total Kjeldahl	0.139	N/A	
pH	8.19	7.0 - 10.5	
Phosphorus, Total (as P)	0.0152	N/A	
Phosphorus, Total Dissolved	0.015	N/A	
Turbidity	0.56		OG <1
UV Transmittance @254nm	92.5	N/A	
Calculated Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Hardness (Total)	173	N/A	
Total Dissolved Solids	247		≤500
Total Metals	Results (mg/L unless noted)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Aluminum, total	0.0117	N/A	≤ 0.1
Antimony, total	<0.00020	0.006	
Arsenic, total	0.00082	0.01	
Barium, total	0.0289	2	
Boron, total	< 0.0500	5	
Cadmium, total	<0.000010	0.005	
Calcium, total	39.1	N/A	
Chromium, total	< 0.00050	0.05	
Cobalt, total	< 0.00010	N/A	
Copper, total	0.017	2	<1
Iron, total	0.011		≤0.30
Lead, total	< 0.00020	0.005	
Magnesium, total	18.4	N/A	
Manganese, total	0.00222	0.12	≤0.02
Mercury, total	<0.000010	0.001	
Molybdenum, total	0.00485	N/A	
Nickel, total	<0.00040	N/A	
Potassium, total	4.52	N/A	
Selenium, total	0.00082	0.05	
Sodium, total	20.6		≤200
Uranium, total	0.00328	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

"u" = less than number shown (Detected)

"u" = greater than number shown (Detected)

* Criteria Exceeded