

Allenby PS Water Quality 2022

Water System: Greater Vernon Water
 Source: Kalamalka Lake
 Facility: MHWTP
 Sampling Point: Allenby PS (280F5)
 Date of Sample: 1/25/2022



		Canadian Drinking Water Guidelines	
Anions	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Chloride	na		≤250
Fluoride	0.25	1.5	
Nitrate (As N)	0.093	10	
Nitrite (as N)	<0.010	1	
Sulphate	51.3		≤500
General Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Alkalinity, Bicarbonate (as CaCO3)	158	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)	158	N/A	
Carbon, Dissolved Organic	3.53	N/A	
Carbon, Total Organic	3.91	N/A	
Colour, True	< 5.0		≤15
Conductivity (EC)	419	N/A	
Cyanide, Total	< 0.0020	0.2	
Nitrogen, Total Kjeldahl	0.224	N/A	
pH	7.75	7.0 - 10.5	
Phosphorus, Total (as P)	0.0121	N/A	
Phosphorus, Total Dissolved	0.0075	N/A	
Turbidity	0.58		OG <1
UV Transmittance @254nm	92.7	N/A	
Calculated Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Hardness (Total)	188	N/A	
Total Dissolved Solids	220		≤500
Total Metals	Results (mg/L unless noted)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Aluminum, total	0.0076	N/A	≤ 0.1
Antimony, total	<0.00020	0.006	
Arsenic, total	0.00107	0.01	
Barium, total	0.0328	2	
Boron, total	< 0.0500	5	
Cadmium, total	0.000013	0.005	
Calcium, total	41.7	N/A	
Chromium, total	< 0.00050	0.05	
Cobalt, total	< 0.00010	N/A	
Copper, total	0.0198	2	<1
Iron, total	0.017		≤0.30
Lead, total	< 0.00020	0.005	
Magnesium, total	20.3	N/A	
Manganese, total	0.00172	0.12	≤0.02
Mercury, total	<0.000040	0.001	
Molybdenum, total	0.00542	N/A	
Nickel, total	0.00054	N/A	
Potassium, total	5.46	N/A	
Selenium, total	0.00089	0.05	
Sodium, total	22.1		≤200
Uranium, total	0.00348	0.02	
Zinc, total	0.0073		≤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