

Kalamalka Intake Water Quality 2020

Water System: Greater Vernon Water

Source: Kalamalka Lake

Sampling Point: Kal Intake

Date of Sample: 7/14/2020



**REGIONAL DISTRICT
NORTH OKANAGAN**

		Canadian Drinking Water Guidelines	
Anions	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Chloride	9.15 ± 0.51		<250
Fluoride	0.50 ± 0.06	1.5	
Nitrate (As N)	0.074 ± 0.006	10	
Nitrite (as N)	< 0.010	1	
Sulphate	52.0 ± 6.2		≤500
General Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Alkalinity, Bicarbonate (as CaCO ₃)	163	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)	163 ± 9	N/A	
Carbon, Dissolved Organic	3.97 ± 0.58	N/A	
Carbon, Total Organic	4.15 ± 0.49	N/A	
Chlorophyll a	3.19	N/A	
Colour, True	< 5.0	N/A	≤15 TCU
Conductivity (EC)	402 ± 10	N/A	
Cyanide, Total	< 0.0020	0.2	
Nitrogen, Total Kjeldahl	0.286 ± 0.058	N/A	
pH	8.24 ± 0.02	N/A	7.0 - 10.5
Phosphorus, Total (as P)	0.090 ± 0.0014	N/A	
Phosphorus, Total Dissolved	0.0032 ± 0.0011	N/A	
Turbidity	1.07 ± 0.08		OG <1
UV Transmittance @ 254nm	89.2 ± 13.4	N/A	
Calculated Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Hardness, Total	176	N/A	
Total Dissolved Solids	254 ± 32		≤500
Total Metals	Results (mg/L unless noted)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Aluminum, total	0.0111 ± 0.0085	N/A	OG ≤0.1
Antimony, total	< 0.00020	0.006	
Arsenic, total	0.001143 ± 0.00045	0.01	
Barium, total	0.0303 ± 0.0042	1	
Boron, total	< 0.0500	5	
Cadmium, total	< 0.000010	0.005	
Calcium, total	39.5 ± 5.9	N/A	
Chromium, total	<0.00050	0.05	
Cobalt, total	< 0.00010	N/A	
Copper, total	0.0194 ± 0.0032	2	<1
Iron, total	0.018 ± 0.016	N/A	≤0.3
Lead, total	< 0.00020	0.005	
Magnesium, total	18.8 ± 2.8	N/A	
Manganese, total	0.00340 ± 0.00319	0.12	≤0.02
Mercury, total	< 0.000010	0.001	
Molybdenum, total	0.00511 ± 0.00078	N/A	
Nickel, total	0.00045 ± 0.00041	N/A	
Potassium, total	5.26 ± 0.87	N/A	
Selenium, total	0.00096 ± 0.00040	0.05	
Sodium, total	17.4 ± 3.4	N/A	≤200
Strontium, total	0.480 ± 0.062	7	
Uranium, total	0.00312 ± 0.00039	0.02	
Zinc, total	< 0.0040	N/A	≤5