

Kalamalka Lake Intake Water Quality 2024

Water System: Greater Vernon Water
Source: Kalamalka Lake

Sampling Point: Kalamalka Lake Intake
Date of Sample: July 16, 2024

Parameter	Result	Guideline	Unit
ALKALINITY (BICARBONATE, AS CaCO ₃)	150	N/A	mg/L
ALKALINITY (CARBONATE, AS CaCO ₃)	<1.0	N/A	mg/L
ALKALINITY (HYDROXIDE, AS CaCO ₃)	<1.0	N/A	mg/L
ALKALINITY (PHENOLPHTHALEIN, AS CaCO ₃)	<1.0	N/A	mg/L
ALKALINITY (TOTAL, AS CaCO ₃)	150	N/A	mg/L
ALUMINUM (TOTAL)	<0.005	OG < 0.1, MAC = 2.9	mg/L
ANTIMONY (TOTAL)	<0.0002	MAC = 0.006	mg/L
ARSENIC (TOTAL)	0.0009	MAC = 0.01	mg/L
BARIUM (TOTAL)	0.0289	MAC = 2	mg/L
BERYLLIUM (TOTAL)	<0.0001	N/A	mg/L
BISMUTH (TOTAL)	<0.0001	N/A	mg/L
BORON (TOTAL)	<0.05	MAC = 5	mg/L
CADMIUM (TOTAL)	<0.00001	MAC = 0.007	mg/L
CALCIUM (TOTAL)	40.9	N/A	mg/L
CHLORIDE	10.2	N/A	mg/L
CHLOROPHYLL A	<1.0	N/A	mg/L
CHROMIUM (TOTAL)	<0.0005	MAC = 0.05	mg/L
COBALT (TOTAL)	<0.0001	N/A	mg/L
COLOUR (TRUE)	<5.0	AO ≤ 15	TCU
CONDUCTIVITY	426	N/A	µS/cm
COPPER (TOTAL)	0.00232	MAC = 2	mg/L
CYANIDE (TOTAL)	<0.002	MAC = 0.2	mg/L
DISSOLVED ORGANIC CARBON	4.17	N/A	mg/L
FLUORIDE	0.25	MAC = 1.5	mg/L
HARDNESS (TOTAL, AS CaCO ₃)	181	N/A	mg/L
IRON (TOTAL)	<0.01	AO ≤ 0.3	mg/L
LEAD (TOTAL)	<0.0002	MAC = 0.005	mg/L
LITHIUM (TOTAL)	0.00629	N/A	mg/L
MAGNESIUM (TOTAL)	19.2	N/A	mg/L
MANGANESE (TOTAL)	0.00136	MAC = 0.12	mg/L
MERCURY (TOTAL)	<0.00001	MAC = 0.001	mg/L
MOLYBDENUM (TOTAL)	0.0048	N/A	mg/L
NICKEL (TOTAL)	<0.0004	N/A	mg/L
NITRATE	<0.01	MAC = 10	mg N/L
NITRITE	<0.01	MAC = 1	mg N/L
PHOSPHORUS (TOTAL DISSOLVED)	0.0077	N/A	mg/L
PHOSPHORUS (TOTAL)	0.0165	N/A	mg/L
PH	7.77	OG = 7.0-10.5	pH units
POTASSIUM (TOTAL)	4.94	N/A	mg/L
SELENIUM (TOTAL)	0.0009	MAC = 0.05	mg/L
SILICON (TOTAL, AS Si)	1.9	N/A	mg/L
SILVER (TOTAL)	<0.00005	N/A	mg/L
SODIUM (TOTAL)	18.7	AO ≤ 200	mg/L
STRONTIUM (TOTAL)	0.467	MAC = 7	mg/L
SULFUR (TOTAL)	17.5	N/A	mg/L
TELLURIUM (TOTAL)	<0.0005	N/A	mg/L

THALLIUM (TOTAL)	<0.00002	N/A	mg/L
THORIUM (TOTAL)	<0.0001	N/A	mg/L
TIN (TOTAL)	<0.0002	N/A	mg/L
TITANIUM (TOTAL)	<0.005	N/A	mg/L
TOTAL DISSOLVED SOLIDS	238	AO ≤ 500	mg/L
TOTAL KJELDAHL NITROGEN	0.351	N/A	mg/L
TOTAL ORGANIC CARBON	4.66	N/A	mg/L
TUNGSTEN (TOTAL)	<0.001	N/A	mg/L
TURBIDITY	1.02	OG < 1	NTU
URANIUM (TOTAL)	0.00297	MAC = 0.02	mg/L
UV TRANSMITTANCE (FILTERED)	90.8	N/A	% T
UV TRANSMITTANCE (UNFILTERED)	89.5	N/A	% T
VANADIUM (TOTAL)	<0.005	N/A	mg/L
ZINC (TOTAL)	<0.004	AO ≤ 5	mg/L
ZIRCONIUM (TOTAL)	<0.0001	N/A	mg/L

"<" = Less than the detection limit shown

N/A = No current guideline

OG = Operational Guideline

MAC = Maximum Acceptable Concentration Guideline

AO = Aesthetic Objective Guideline

Guidelines are for treated drinking water - these samples are untreated water