

**Silver Star Water Utility Comprehensive Summary**



Location	Well #1	Well #2	Well #3	Well #12	Paradise Reservoir	Vance Reservoir	REGIONAL DISTRICT NORTH OKANAGAN	
Year Tested	2022	2022	2022	2022	2022	2022		
Date Tested	15-Feb	15-Feb	15-Feb	15-Feb	31-Jan	31-Jan		
	Ground Water				Surface Water Reservoirs		Guidelines for Canadian Drinking Water Quality	
INORGANIC	Results (mg/L unless noted)						Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
Aluminum (total)	<0.0050	<0.0050	<0.0050	0.0072	<0.0050	0.0062	no current guideline	
Antimony (total)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.006	
Arsenic (total)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.01	
Barium (total)	0.0124	0.0265	0.0271	0.0317	0.0222	0.0221	2	
Boron (total)	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	5	
Cadmium (total)	<0.000010	0.000073	0.000046	<0.000010	0.000069	0.000146	0.005	
Calcium (total)	45.1	47.9	75.9	26.4	36.9	27.6	no current guideline	
Chloride	0.34	1.17	38.3	5.96	0.10	0.15		<250
Chromium (total)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.05	
Cobalt (total)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		
Copper (total)	0.00046	0.00078	<0.00040	0.00174	0.00118	0.00143		<1.0
Cyanide (total)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.2	
Fluoride	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	1.5	
Iron (total)	<0.010	0.04	0.048	0.019	0.057	0.355		<0.30
Lead (total)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.01	
Magnesium (total)	2.68	5.60	10.3	13.9	5.19	2.32	N/A	
Manganese (total)	<0.00020	0.0017	0.00463	0.02350	0.02220	0.00653		<0.05
Mercury (total)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.001	
Molybdenum (total)	0.00037	0.00441	0.00057	0.00119	0.00067	0.0003	no current guideline	
Nickel (total)	<0.00040	<0.00040	0.00066	0.00630	0.00049	0.00085		
Nitrate (as N)	0.052	<0.010	<0.010	<0.010	0.036	0.112	10	
Nitrite (as N)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	1	
Phosphorus (total)	0.0134	0.119	0.0067	0.188	<0.0050	0.0078		
Potassium (total)	1.06	2.30	1.08	1.72	0.52	0.49	no current guideline	
Selenium (total)	0.00187	0.0070	<0.00050	<0.00050	0.002	0.00243	0.05	
Sodium (total)	1.20	1.78	14.3	11.4	0.66	0.57		<200
Strontium	0.358	0.378	1.91	3.11	0.184	0.184		
Sulphate	20.7	43.4	69.9	41.8	18.2	24.1		<500
Uranium (total)	0.000289	0.00180	0.00220	0.000425	0.000293	0.000105	0.02	
Zinc (total)	<0.0040	0.0571	0.0826	0.0217	0.0212	0.0126		<5.0
PHYSICAL	Results (mg/L unless noted)						Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
Alkalinity (bicarbonate, as CaCO3)	131	123	167	121	114	62.7	no current guideline	
Alkalinity (carbonate, as CaCO3)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Alkalinity (hydroxide, as CaCO3)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Alkalinity (phenolphthalein, as CaCO3)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Alkalinity (total, as CaCO3)	131	123	167	121	114	62.7		
Colour (CU)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0		<15 TCU
Conductivity (umho/cm)	256	298	565	302	211	162	no current guideline	
Hardness (total, as CaCO3)	124	143	232	123	114	78.5		see note
pH	7.94	7.92	7.98	8.05	7.38	7.08		7.0 - 10.5
Total dissolved solids / TDS	165	177	311	175	131	94		<500
Turbidity (NTU)	<0.10	0.210	1.35	0.12	0.48	0.52	1 NTU	<5 NTU

**During the ski season Silver Star water mainly surface water supplemented with some well water. At other times the Silver Star Utility is 100% well water. The well water is a combination of the wells noted above.**

**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