Client/Code

Independent Pump & Mechanical -E
*A
PO Box 390
Shawnigan Lake, BC
V0R 2W0

TEL: (250) 743-3075
admin@independentpump.ca

Date 21Jun22 2:16p No. W168775
Source Well
Type of Sample water
No. of Samples 1

Comments Arrival temp.: 10.7C
Samplers: Trisha Oud

Site Code	Date	Time	CFU/100 ml TC	T-NC	CFU/100 ml FC	F-NC	CFU/100 mL E.coli
Valley View #1 38473	21Jun22	10:30a	0	2	0	0	0

WATER DISTRICT SCREEN

Sample	Date	Time	Lactose Fermentors	Coliforms Total	Fecal	E.coli	Total Aeromonas	Sulfur Reducing/ Iron Bacteria	Yeast/Fungi	TPC*
Valley View #1 38473	21Jun22	10:30a	0.02	ND	ND	ND	ND	ND / ND	ND / ND	6.0

* all counts are colony forming units per milli-litre

TC = total coliform bacteria FC = fecal coliform bacteria (aka Thermotolerant Coliforms)
NC = non-coliform bacteria ND = none detected
TPC = total plate count- spread plate method - 35C/48hr TGEA FDA/BAM 9th ed, Oct 2020
CFU = colony forming units

Results may be adversely affected if samples are submitted to the laboratory more than 24 to 30 hours after collection.

E. coli = Escherichia coli, FDA/BAM 9th ed, Oct 2020
Bergy's Manual of Systematic Bacteriology vol 1, AOAC 1984; J.Clin.Micro., J.Intern.Systm.Bact.

Comments:
For Interpretation of Results:
Total, Fecal Coliforms or E.coli present greater than 0 CFU/100mL (0 CFU/mL):
IF Coliform numbers exceed safe limits for drinking water- water is not suitable for drinking without treatment.

Total Non-coliform bacteria (=Lactose Fermentors) equal to or greater than 200 CFU/100mL (2.0 CFU/mL):
IF the number organisms present exceed recommended guidelines for drinking water; treatment is strongly recommended.

If Total Plate Count bacteria are -
A) greater than 100 CFU/mL:
high numbers of microbial organisms indicate that this water supply should be monitored on a seasonal basis.
B) greater than 500 CFU/mL:
the number of organisms present exceed recommended guidelines for drinking water; treatment is strongly recommended.

- see following page for chemistry results -

W. Riggs
Sr. Microbiologist

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Date 21Jun22 2:16p No. W168775 pg2
Source Well
Type of Sample water
No. of Samples 1
Comments Arrival temp.: 10.7C
Sampler: Trisha Oud

Sample: Valley View #1 38473 21Jun22 10:30a

	ELEMENTS		SAMPLE	UNITS	Maximum Limits Permissible In Drinking Water*
1)	Aluminium	Al	0.031	mg/L	no limit listed
2)	Antimony	Sb	<0.500	ug/L	6.00 ug/L
3)	Arsenic	As	1.39	ug/L	10.0 ug/L
4)	Barium	Ba	<0.009	mg/L	2.00 mg/L
5)	Beryllium	Be	<0.003	mg/L	no limit listed
6)	Boron	B	0.394	mg/L	5.00 mg/L
7)	Cadmium	Cd	<0.010	ug/L	7.00 ug/L
8)	Calcium	Ca	20.6	mg/L	200 mg/L
9)	Chromium	Cr	0.003	mg/L	0.050 mg/L
10)	Cobalt	Co	<0.005	mg/L	no limit listed
11)	Copper	Cu	<0.008	mg/L	1.00 mg/L
12)	Gold	Au	<0.040	mg/L	no limit listed
13)	Iron	Fe	0.011	mg/L	0.300 mg/L
14)	Lanthanum	La	<0.020	mg/L	no limit listed
15)	Lead	Pb	<0.500	ug/L	5.00 ug/L
16)	Magnesium	Mg	8.74	mg/L	50.0 mg/L
17)	Manganese	Mn	<0.004	mg/L	0.120 MAC 0.020 AO
18)	Mercury	Hg	<0.010	ug/L	1.00 ug/L
19)	Molybdenum	Mo	<0.005	mg/L	no limit listed
20)	Nickel	Ni	<0.004	mg/L	no limit listed
21)	Phosphorus	P	0.021	mg/L	no limit listed
22)	Potassium	K	0.620	mg/L	no limit listed
23)	Scandium	Sc	<0.050	mg/L	no limit listed
24)	Selenium	Se	<0.500	ug/L	5.0 ug/L
25)	Silicon	Si	5.91	mg/L	no limit listed
26)	Silver	Ag	<0.010	mg/L	no limit listed
27)	Sodium	Na	5.63	mg/L	200 mg/L
28)	Strontium	Sr	0.060	mg/L	no limit listed
29)	Tin	Sn	<0.020	mg/L	no limit listed
30)	Titanium	Ti	<0.010	mg/L	no limit listed
31)	Tungsten	W	<0.050	mg/L	no limit listed
32)	Vanadium	V	<0.010	mg/L	no limit listed
33)	Zinc	Zn	0.015	mg/L	5.00 mg/L
Hardness (mg/L $CaCO_3$)			87.4	mg/L	75-150 mg/L = mod.hard
pH			7.67	units	7.0 to 10.5

* As per Canadian or B.C. Health Act Safe Drinking Water Regulation BC Reg 230/92, & 390 Sch 120, 2001. Task Force of the Canadian Council of Resource and Environment Ministers - Guidelines for Canadian Drinking Water Quality, 2020.

Comments:
All constituents tested meet Canadian and B.C. drinking water standards.

R. Bilodeau
Analytical Chemist

H. Hartmann
Sr.Analytical Chemist

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Date 21Jun22 2:16p No. W168775 pg3
Source Well
Type of Sample water
No. of Samples 1

Comments Arrival temp.: 10.7C
Sampler: Trisha Oud

SAMPLE	DATE	TIME	Alkalinity (mg/L)	NH_3-N (ug/L)	Cl^- (mg/L)	Colour (TCU)	E.C. (uS/cm)
Valley View #1 38473	21Jun22	10:30a	95.0	5.90	11.5	ND	198
Lab Blank			ND	ND	ND	ND	ND
S_o			0.100	0.254	0.015	0.300	0.300
REF. VALUE			100	10.0	10.0	5.00	147
STD ± 2SD			110 ± 7.54	9.94 ± 0.799	10.8 ± 1.01	4.92 ± 0.411	142 ± 12.0

SAMPLE	DATE	TIME	CORROSIVITY (Is @20C)	F^- (mg/L)	S^{2-} (ug/L)	TKN (mg/L)	NO_3-N (ug/L)
Valley View #1 38473	21Jun22	10:30a	-0.426	0.073	ND	0.022	366
Lab Blank				ND	ND	ND	ND
S_o				0.007	0.007	0.012	0.160
REF. VALUE				1.00	50.0	1.00	10.0
STD ± 2SD				1.08 ± 0.089	48.2 ± 0.442	0.980 ± 0.091	9.88 ± 0.782

SAMPLE	DATE	TIME	NO_2-N (ug/L)	SO_4^{2-} (mg/L)	T.O.C. (mg/L)	T&L (mg/L)	TDS (mg/L)
Valley View #1 38473	21Jun22	10:30a	ND	6.31	0.750	ND	115
Lab Blank			ND	ND	ND	ND	ND
S_o			0.300	0.075	0.300	0.070	0.010
REF. VALUE			10.0	10.0	5.00	1.00	200
STD ± 2SD			10.6 ± 0.812	10.9 ± 0.833	4.88 ± 0.492	0.929 ± 0.079	203 ± 17.4

SAMPLE	DATE	TIME	Turbidity (NTU)	UVT (%)
Valley View #1 38473	21Jun22	10:30a	0.330	98.5
Lab Blank			ND	ND
S_o			0.015	0.003
REF. VALUE			40.0	90.0
STD ± 2SD			39.0 ± 4.07	90.3 ± 0.020

SD = standard deviation; REF VALUE = primary or secondary reference material
STD = secondary standard calibrated to primary standard reference material
S_o = standard deviation at zero analyte concentration; method detection limit is generally considered to be 3x S_o value
ND = none detected n/a = not applicable

R. Bilodeau
Analytical Chemist

H. Hartmann
Sr.Analytical Chemist