

Client/Code

Braithwaite Estates Imp. Dist.
 *A
 P.O. Box 282
 Cobble Hill, BC
 V0R 1L0

Date 15Feb22 2:45p No. W166503
 Source Well
 Type of Sample water
 No. of Samples 3

TEL: (250) 743-7211 Comments Arrival temp.: 10.4C
 braithwaiteestates@shaw.ca Sampler: Joe Woolls

Samples: Full Spectrum Analyses New Water Source

Site Code	Date	Time	CFU/100 ml		CFU/100 ml		CFU/100 ml
			TC	T-NC	FC	F-NC	E.coli
1 BEID #3 Well Reservoir Site	15Feb22	08:45A	0	0	0	0	0
2 BEID #2 Well Rolmar	15Feb22	09:00A	0	0	0	0	0
3 BEID #4 Well Fisher	15Feb22	09:30A	0	0	0	0	0

WATER DISTRICT SCREEN

Sample	Date	Time	Lactose	Coliforms		E.coli	Total	Sulfur Reducing/		TPC*
			Fermentors	Total	Fecal		Aeromonas	Iron Bacteria	Yeast/Fungi	
1 BEID #3 Well Reservoir Site	15Feb22	08:45A	ND	ND	ND	ND	ND	ND / ND	ND / ND	96.0
2 BEID #2 Well Rolmar	15Feb22	09:00A	ND	ND	ND	ND	ND	ND / ND	ND / ND	26.0
3 BEID #4 Well Fisher	15Feb22	09:30A	ND	ND	ND	ND	ND	ND / ND	ND / ND	0.24


* 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, ADAC 1984; J.Clin.Micro.,
 J.Intern.Systm.Bact.

- see following page for chemistry results -


 W. Riggs
 Sr. Microbiologist



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No. W166503 pg2

TEL: (250) 743-7211 Comments Arrival temp.: 10.4C
 braithwaiteestates@shaw.ca Sampler: Joe Woolls

Samples: Full Spectrum Analyses New Water Source - 1) BEID #3 Well Reservoir Site 15Feb22 08:45A

2) BEID #2 Well Rolmar 15Feb22 09:00A 3) BEID #4 Well Fisher 15Feb22 09:30A

ELEMENTS		1 2 3			UNITS	Maximum Limits Permissible
		SAMPLE	SAMPLE	SAMPLE		In Drinking Water*
1) Aluminium	Al	0.143	0.122	0.115	mg/L	no limit listed
2) Antimony	Sb	<0.500	<0.500	<0.500	ug/L	6.00 ug/L
3) Arsenic	As	3.09	1.75	1.88	ug/L	10.0 ug/L
4) Barium	Ba	<0.009	<0.009	<0.009	mg/L	2.00 mg/L
5) Beryllium	Be	<0.003	<0.003	<0.003	mg/L	no limit listed
6) Bismuth	Bi	<0.100	<0.100	<0.100	ug/L	no limit listed
7) Boron	B	0.561	0.574	0.503	mg/L	5.00 mg/L
8) Cadmium	Cd	<0.010	<0.010	<0.010	ug/L	7.00 ug/L
9) Calcium	Ca	22.5	20.0	27.1	mg/L	200 mg/L
10) Chromium	Cr	<0.003	<0.003	<0.003	mg/L	0.050 mg/L
11) Cobalt	Co	<0.005	<0.005	<0.005	mg/L	no limit listed
12) Copper	Cu	<0.008	<0.008	<0.008	mg/L	1.00 mg/L
13) Gold	Au	<0.040	<0.040	<0.040	mg/L	no limit listed
14) Iron	Fe	1.06	0.057	0.045	mg/L	0.300 mg/L
15) Lanthanum	La	<0.020	<0.020	<0.020	mg/L	no limit listed
16) Lead	Pb	0.890	<0.500	<0.500	ug/L	5.00 ug/L
17) Lithium	Li	<0.100	<0.100	<0.100	ug/L	no limit listed
18) Magnesium	Mg	3.46	3.88	6.49	mg/L	50.0 mg/L
19) Manganese	Mn	0.009	<0.004	<0.004	mg/L	0.120 MAC 0.020 AD
20) Mercury	Hg	<0.010	<0.010	<0.010	ug/L	1.00 ug/L
21) Molybdenum	Mo	<0.005	<0.005	<0.005	mg/L	no limit listed
22) Nickel	Ni	<0.004	<0.004	<0.004	mg/L	no limit listed
23) Phosphorus	P	0.074	0.040	0.042	mg/L	no limit listed
24) Potassium	K	0.810	0.660	0.800	mg/L	no limit listed
25) Scandium	Sc	<0.050	<0.050	<0.050	mg/L	no limit listed
26) Selenium	Se	<0.500	<0.500	<0.500	ug/L	5.0 ug/L
27) Silicon	Si	5.46	5.60	7.22	mg/L	no limit listed
28) Silver	Ag	<0.010	<0.010	<0.010	mg/L	no limit listed
29) Sodium	Na	6.64	5.46	6.81	mg/L	200 mg/L
30) Strontium	Sr	0.080	0.070	0.100	mg/L	no limit listed
31) Tin	Sn	<0.020	<0.020	<0.020	mg/L	no limit listed
32) Titanium	Ti	<0.010	<0.010	<0.010	mg/L	no limit listed
33) Tungsten	W	<0.050	<0.050	<0.050	mg/L	no limit listed
34) Uranium	U	<0.100	<0.100	<0.100	ug/L	20.0 ug/L
35) Vanadium	V	<0.010	<0.010	<0.010	mg/L	no limit listed
36) Zinc	Zn	0.051	0.016	0.032	mg/L	5.00 mg/L
37) Zirconium	Zr	<0.100	<0.100	<0.100	ug/L	no limit listed
Hardness (mg/L CaCO ₃)		70.4	65.9	94.4	mg/L	0-75 mg/L = soft
pH		7.77	7.41	7.33	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.



R. Bilodeau
 Analytical Chemist

H. Hartmann
 H. Hartmann
 Sr. Analytical Chemist

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 braithwaiteestates@shaw.ca Sampler: Joe Woolls

Samples: Full Spectrum Analyses New Water Source

SAMPLE	DATE	TIME	Alkalinity (mg/L)	NH ₃ -N (ug/L)	Cl ⁻ (mg/L)	Colour (TCU)	E.C. (uS/cm)
1 BEID #3 Well Reservoir Site	15Feb22	08:45A	95.0	ND	3.12	1.53	173
2 BEID #2 Well Rolmar	15Feb22	09:00A	85.0	ND	7.75	0.680	180
3 BEID #4 Well Fisher	15Feb22	09:30A	100	ND	12.5	0.390	216
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			96.2 ± 7.66	10.4 ± 0.870	10.6 ± 0.898	4.89 ± 0.422	142 ± 12.9

SAMPLE	DATE	TIME	CORROSIVITY (Is @20C)	F ⁻ (mg/L)	S ²⁻ (ug/L)	TKN (mg/L)	NO ₃ -N (mg/L)
1 BEID #3 Well Reservoir Site	15Feb22	08:45A	-0.287	0.085	ND	ND	0.044
2 BEID #2 Well Rolmar	15Feb22	09:00A	-0.747	0.074	ND	ND	0.899
3 BEID #4 Well Fisher	15Feb22	09:30A	-0.624	0.062	ND	ND	2.08
Lab Blank				ND	ND	ND	ND
S _o				0.007	0.007	0.012	0.160 ug/L
REF. VALUE				1.00	50.0	1.00	1.00
STD ± 2SD				1.04 ± 0.076	48.1 ± 0.399	1.08 ± 0.074	1.07 ± 0.074

SAMPLE	DATE	TIME	NO ₂ -N (ug/L)	SO ₄ ²⁻ (mg/L)	D.O.C. (mg/L)	TDS (mg/L)
1 BEID #3 Well Reservoir Site	15Feb22	08:45A	8.90	8.34	3.81	100
2 BEID #2 Well Rolmar	15Feb22	09:00A	ND	5.20	5.27	104
3 BEID #4 Well Fisher	15Feb22	09:30A	ND	5.85	5.52	125
Lab Blank			ND	ND	ND	ND
S _o			0.160	0.075	0.300	0.010
REF. VALUE			10.0	10.0	5.00	200
STD ± 2SD			9.87 ± 0.882	10.6 ± 1.01	5.10 ± 4.66	194 ± 15.5



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No. W166503 pg4

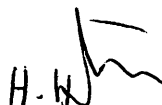
TEL: (250) 743-7211 Comments Arrival temp.: 10.4C
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Samples: Full Spectrum Analyses New Water Source

SAMPLE	DATE	TIME	Turbidity (NTU)	UVI (%)	T.P0 ₄ -P (ug/L)	Silica (mg/L)	T.N (mg/L)
1 BEID #3 Well Reservoir Site	15Feb22	08:45A	6.70	99.0	69.7	11.9	0.053
2 BEID #2 Well Rolmar	15Feb22	09:00A	1.34	98.8	66.7	12.2	0.899
3 BEID #4 Well Fisher Lab Blank	15Feb22	09:30A	0.420	99.6	58.7	15.7	2.08
S ₀			0.015	0.003	0.150	0.003	0.030
REF. VALUE			5.00	90.0	100	1.00	1.00
STD ± 2SD			5.20 ± 0.43	90.6 ± 0.03	108 ± 7.22	1.05 ± 0.060	0.988 ± 0.069

SD = standard deviation; REF VALUE = primary or secondary reference material
 STD = secondary standard calibrated to primary standard reference material
 S₀ = standard deviation at zero analyte concentration; method detection limit
 is generally considered to be 3x S₀ value
 ND = none detected n/a = not applicable

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 Analytical Chemist



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