

Deep Bay Improvement District
 5031 Mountain View Rd
 Bowser, BC
 V0R 1G0

17Nov22 8:54a
 Well
 water
 7

W171396

TEL: 250 757-9312
 admin@dbid.ca

Arrival temp.: 10.0C
 Sampler: Don Buchner

Samples: 1) Well #1 16Nov22 08:45a 2) Well #2 16Nov22 09:15a 3) Well #3 16Nov22 09:00a
 4) Well #4 16Nov22 09:30a 5) Well #5 16Nov22 09:45a 6) Well #6 16Nov22 09:45a
 7) Well #8 16Nov22 10:15a

ELEMENTS		1	2	3	4	5	6	7	UNITS	Maximum Limits In Drinking Water
		SAMPLE	SAMPLE	SAMPLE	SAMPLE	SAMPLE	SAMPLE	SAMPLE		
1) Aluminium	Al	0.111	0.164	0.185	0.116	0.225	0.162	0.169	mg/L	no limit listed
2) Antimony	Sb	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	ug/L	6.00 ug/L
3) Arsenic	As	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	ug/L	10.0 ug/L
4) Barium	Ba	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	mg/L	2.00 mg/L
5) Beryllium	Be	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/L	no limit listed
6) Boron	B	0.531	0.620	0.648	0.579	0.870	0.596	0.637	mg/L	5.00 mg/L
7) Cadmium	Cd	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	ug/L	7.00 ug/L
8) Calcium	Ca	11.4	6.69	13.6	12.5	15.1	15.4	13.4	mg/L	200 mg/L
9) Chromium	Cr	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/L	0.050 mg/L
10) Cobalt	Co	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/L	no limit listed
11) Copper	Cu	<0.008	0.013	<0.008	<0.008	<0.008	<0.008	<0.008	mg/L	1.00 mg/L
12) Gold	Au	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	mg/L	no limit listed
13) Iron	Fe	0.235	1.79	0.260	0.438	0.021	0.157	0.020	mg/L	0.300 mg/L
14) Lanthanum	La	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	mg/L	no limit listed
15) Lead	Pb	0.685	7.24	0.702	<0.500	<0.500	<0.500	<0.500	ug/L	5.00 ug/L
16) Magnesium	Mg	2.21	1.06	2.73	2.44	4.01	4.05	3.44	mg/L	50.0 mg/L
17) Manganese	Mn	<0.004	0.013	<0.004	0.007	<0.004	0.009	<0.004	mg/L	0.120 MAC .020 AO
18) Mercury	Hg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	ug/L	1.00 ug/L
19) Molybdenum	Mo	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/L	no limit listed
20) Nickel	Ni	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/L	no limit listed
21) Phosphorus	P	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	mg/L	no limit listed
22) Potassium	K	0.250	0.190	0.290	0.240	0.430	0.380	0.370	mg/L	no limit listed
23) Scandium	Sc	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	mg/L	no limit listed
24) Selenium	Se	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	ug/L	5.0 ug/L
25) Silicon	Si	9.72	7.12	12.0	11.9	10.8	10.8	10.2	mg/L	no limit listed
26) Silver	Ag	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	mg/L	no limit listed
27) Sodium	Na	2.38	2.10	3.02	3.08	3.28	2.81	2.79	mg/L	200 mg/L
28) Strontium	Sr	0.020	0.020	0.030	0.020	0.020	0.030	0.020	mg/L	no limit listed
29) Tin	Sn	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	mg/L	no limit listed
30) Titanium	Ti	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	mg/L	no limit listed
31) Tungsten	W	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	mg/L	no limit listed
32) Vanadium	V	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	mg/L	no limit listed
33) Zinc	Zn	0.028	0.039	0.021	0.024	0.028	0.014	0.011	mg/L	5.00 mg/L
Hardness (mg/L CaCO3)		37.6	21.1	45.2	41.3	54.2	55.1	47.6	mg/L	0-75 mg/L = soft
pH		7.08	6.37	6.57	6.48	6.99	6.92	7.04	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:

Iron: high amounts of Iron can cause staining of laundry, porcelain and plumbing fixtures; can produce an undesirable taste. Essential for health.

Lead: toxic and accumulates in body tissues; Lead may come from old lead pipes, solders, or industrial discharges. Even small amounts can contribute to learning disability in children.

pH: extremes in pH can lead to corrosion (too low <6.5) or incrustation (too high >8.5) of pipes & plumbing fixtures. Water with low pH allows metals to dissolve into water; water with high pH reduces disinfection efficacy, increases THM & scale formations.

R. Bilodeau
 Analytical Chemist

H. Hartmann
 Sr. Analytical Chemist

M.B. LABS LTD
 T: 250 656-1334

E: info@mblabs.com

W: www.mblabs.com

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W171396 pg2

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SAMPLE	DATE	TIME	Alkalinity (mg/L)	NH ₃ -N (ug/L)	Cl ⁻ (mg/L)	Colour (mg/L)	E.C. (uS/cm)
1 Well #1	16Nov22	08:45a	50.0	ND	5.21	0.680	69.5
2 Well #2	16Nov22	09:15a	40.0	ND	2.40	1.25	42.2
3 Well #3	16Nov22	09:00a	55.0	ND	4.97	0.580	78.8
4 Well #4	16Nov22	09:30a	50.0	ND	5.46	1.44	75.7
5 Well #5	16Nov22	09:45a	55.0	4.20	7.01	ND	100
6 Well #6	16Nov22	09:45a	70.0	5.80	6.28	1.53	103
7 Well #8	16Nov22	10:15a	60.0	4.20	6.43	0.490	90.5
Lab Blank			ND	ND	ND	ND	ND
S _o			0.100	0.254	0.015	0.300	0.300
REF. VALUE			100	10.0	5.00	5.00	147
STD ± 2SD			109 ± 8.12	9.77 ± 0.911	4.90 ± 0.433	5.05 ± 0.488	144 ± 12.2

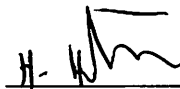
SAMPLE	DATE	TIME	CORROSIVITY (Is @20C)	F ⁻ (mg/L)	S ²⁻ (ug/L)	TKN (mg/L)	NO ₃ -N (ug/L)
1 Well #1	16Nov22	08:45a	-1.55	ND	ND	ND	19.3
2 Well #2	16Nov22	09:15a	-2.59	0.151	ND	ND	ND
3 Well #3	16Nov22	09:00a	-1.94	0.283	ND	ND	45.3
4 Well #4	16Nov22	09:30a	-2.11	0.303	ND	ND	26.0
5 Well #5	16Nov22	09:45a	-1.48	0.041	ND	0.014	123
6 Well #6	16Nov22	09:45a	-1.43	ND	ND	0.026	210
7 Well #8	16Nov22	10:15a	-1.45	ND	ND	0.019	139
Lab Blank			ND	ND	ND	ND	ND
S _o				0.007	0.007	0.012	0.160
REF. VALUE				1.00	50.0	1.00	100
STD ± 2SD				1.07 ± 0.088	50.5 ± 4.90	0.966 ± 0.087	98.5 ± 8.81

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)
1 Well #1	16Nov22	08:45a	ND	0.533	1.39	ND	40.3
2 Well #2	16Nov22	09:15a	ND	0.300	2.76	ND	29.5
3 Well #3	16Nov22	09:00a	ND	0.966	1.52	ND	45.7
4 Well #4	16Nov22	09:30a	ND	1.23	1.77	ND	43.9
5 Well #5	16Nov22	09:45a	ND	0.766	1.64	ND	58.1
6 Well #6	16Nov22	09:45a	ND	0.566	1.64	ND	59.7
7 Well #8	16Nov22	10:15a	ND	0.633	2.64	ND	52.4
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 ± 0.780	9.79 ± 0.720	5.44 ± 0.489	0.944 ± 0.087	189 ± 16.0

SAMPLE	DATE	TIME	Turbidity (NTU)	UVT (%)
1 Well #1	16Nov22	08:45a	1.73	99.4
2 Well #2	16Nov22	09:15a	8.39	97.9
3 Well #3	16Nov22	09:00a	1.96	99.2
4 Well #4	16Nov22	09:30a	2.88	97.3
5 Well #5	16Nov22	09:45a	0.210	99.6
6 Well #6	16Nov22	09:45a	1.13	93.6
7 Well #8	16Nov22	10:15a	0.120	100
Lab Blank			ND	ND
S _o			0.015	0.003
REF. VALUE			0.500	90.0
STD ± 2SD			0.538 ± 0.044	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

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