



BUREAU
VERITAS

BV Labs Job #: B942745
Report Date: 2019/06/13

Village of Zeballos

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

BV Labs ID			VU5666	VU5667		
Sampling Date			2019/06/04 05:30	2019/06/04 06:00		
COC Number			08460407	08460407		
	UNITS	AO	WELL #1	WELL #2	RDL	QC Batch
Calculated Parameters						
Sulphide (as H ₂ S)	mg/L	0.05	<0.0020	<0.0020	0.0020	9447613
Anions						
Total Sulphide	mg/L	0.05	<0.0019	<0.0019	0.0019	9457059
Dissolved Chloride (Cl)	mg/L	250	8.5	8.5	1.0	9458531
Dissolved Sulphate (SO ₄)	mg/L	500	2.8	2.9	1.0	9458531
Nutrients						
Total Ammonia (N)	mg/L	-	0.76	0.075	0.015	9452891
No Fill	No Exceedance					
Grey	Exceeds 1 criteria policy/level					
Black	Exceeds both criteria/levels					
RDL = Reportable Detection Limit						



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VIHA PKG, WELLS/SPRINGS - BURNABY (DRINKING WATER)

BV Labs ID					VU5666		VU5667		
Sampling Date					2019/06/04 05:30		2019/06/04 06:00		
COC Number					08460407		08460407		
	UNITS	MAC	AO	OG	WELL #1	QC Batch	WELL #2	RDL	QC Batch
Misc. Inorganics									
UV absorbance (254nm)	AU/cm	-	-	-	<0.010	9452814	<0.010	0.010	9452814
ANIONS									
Nitrite (N)	mg/L	1	-	-	<0.0050	9450583	<0.0050	0.0050	9450583
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	-	-	-	45.2	9447420	37.7	0.50	9447420
Nitrate (N)	mg/L	10	-	-	0.514	9447965	0.419	0.020	9447965
Total Organic Nitrogen (N)	mg/L	-	-	-	<0.020	9448973	<0.020	0.020	9448973
Transmittance at 254nm	%T/cm	-	-	-	>97.7	9448459	>97.7	N/A	9448459
Misc. Inorganics									
Fluoride (F)	mg/L	1.5	-	-	<0.020	9450467	<0.020	0.020	9450467
Alkalinity (Total as CaCO3)	mg/L	-	-	-	40.4	9450384	35.4	1.0	9450384
Total Organic Carbon (C)	mg/L	-	-	-	<0.50	9454613	<0.50	0.50	9454613
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	9450384	<1.0	1.0	9450384
Bicarbonate (HCO3)	mg/L	-	-	-	49.3	9450384	43.2	1.0	9450384
Carbonate (CO3)	mg/L	-	-	-	<1.0	9450384	<1.0	1.0	9450384
Hydroxide (OH)	mg/L	-	-	-	<1.0	9450384	<1.0	1.0	9450384
MISCELLANEOUS									
True Colour	Col. Unit	-	15	-	<5.0	9450622	<5.0	5.0	9450622
Nutrients									
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.514	9450582	0.419	0.020	9450582
Total Nitrogen (N)	mg/L	-	-	-	0.582	9462722	0.466	0.020	9451927
Physical Properties									
Conductivity	uS/cm	-	-	-	109	9450383	102	2.0	9450383
pH	pH	-	-	7.0:10.5	7.43	9450382	7.33		9450382
Physical Properties									
Total Dissolved Solids	mg/L	-	500	-	52	9452528	50	10	9452528
Turbidity	NTU	see remark	see remark	see remark	1.83	9448609	0.15	0.10	9448609
Elements									
Total Mercury (Hg)	ug/L	1	-	-	<0.0020	9452124	<0.0020	0.0020	9452124
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	-	-	100	<3.0	9452130	4.7	3.0	9452130
Total Antimony (Sb)	ug/L	6	-	-	<0.50	9452130	<0.50	0.50	9452130
Total Arsenic (As)	ug/L	10	-	-	<0.10	9452130	<0.10	0.10	9452130
No Fill	No Exceedance								
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Total Barium (Ba)	ug/L	1000	-	-	9.2	9452130	6.1	1.0	9452130
Total Beryllium (Be)	ug/L	-	-	-	<0.10	9452130	<0.10	0.10	9452130
Total Bismuth (Bi)	ug/L	-	-	-	<1.0	9452130	<1.0	1.0	9452130
Total Boron (B)	ug/L	5000	-	-	<50	9452130	<50	50	9452130
Total Cadmium (Cd)	ug/L	5	-	-	<0.010	9452130	<0.010	0.010	9452130
Total Chromium (Cr)	ug/L	50	-	-	<1.0	9452130	<1.0	1.0	9452130
Total Cobalt (Co)	ug/L	-	-	-	<0.20	9452130	<0.20	0.20	9452130
Total Copper (Cu)	ug/L	-	1000	-	2.02	9452130	13.2	0.20	9452130
Total Iron (Fe)	ug/L	-	300	-	58.1	9452130	40.7	5.0	9452130
Total Lead (Pb)	ug/L	5	-	-	0.79	9452130	2.20	0.20	9452130
Total Manganese (Mn)	ug/L	120	20	-	<1.0	9452130	1.5	1.0	9452130
Total Molybdenum (Mo)	ug/L	-	-	-	<1.0	9452130	<1.0	1.0	9452130
Total Nickel (Ni)	ug/L	-	-	-	<1.0	9452130	3.2	1.0	9452130
Total Selenium (Se)	ug/L	50	-	-	<0.10	9452130	<0.10	0.10	9452130
Total Silicon (Si)	ug/L	-	-	-	3260	9452130	3030	100	9452130
Total Silver (Ag)	ug/L	-	-	-	<0.020	9452130	<0.020	0.020	9452130
Total Strontium (Sr)	ug/L	-	-	-	36.0	9452130	30.0	1.0	9452130
Total Thallium (Tl)	ug/L	-	-	-	<0.010	9452130	<0.010	0.010	9452130
Total Tin (Sn)	ug/L	-	-	-	<5.0	9452130	<5.0	5.0	9452130
Total Titanium (Ti)	ug/L	-	-	-	<5.0	9452130	<5.0	5.0	9452130
Total Uranium (U)	ug/L	20	-	-	<0.10	9452130	<0.10	0.10	9452130
Total Vanadium (V)	ug/L	-	-	-	<5.0	9452130	<5.0	5.0	9452130
Total Zinc (Zn)	ug/L	-	5000	-	13.0	9452130	39.5	5.0	9452130
Total Zirconium (Zr)	ug/L	-	-	-	<0.10	9452130	<0.10	0.10	9452130
Total Calcium (Ca)	mg/L	-	-	-	15.2	9447962	12.4	0.050	9447962
Total Magnesium (Mg)	mg/L	-	-	-	1.77	9447962	1.64	0.050	9447962
Total Potassium (K)	mg/L	-	-	-	0.852	9447962	0.634	0.050	9447962
Total Sodium (Na)	mg/L	-	200	-	2.39	9447962	2.60	0.050	9447962
Total Sulphur (S)	mg/L	-	-	-	<3.0	9447962	<3.0	3.0	9447962
Microbiological Param.									
Heterotrophic Plate Count	CFU/mL	-	-	-	<1	9448715	<1	1	9448715
Iron Bacteria	CFU/mL	-	-	-	<25	9448718	<25	25	9448718
Sulphate reducing bacteria	CFU/mL	-	-	-	<75	9448719	<75	75	9448719
Total Coliforms	CFU/100mL	0	-	-	0	9448717	0	N/A	9448717
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E. coli	CFU/100mL	0	-	-	0	9448717	0	N/A	9448717
Calculated Parameters									
Langelier Index (@ 4.4C)	N/A	-	-	-	-1.65	9449002	-1.90	N/A	9449002
Langelier Index (@ 60C)	N/A	-	-	-	-0.612	9449008	-0.856	N/A	9449008
Saturation pH (@ 4.4C)	N/A	-	-	-	9.08	9449002	9.23	N/A	9449002
Saturation pH (@ 60C)	N/A	-	-	-	8.04	9449008	8.19	N/A	9449008
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