Mill Bay Water District

BV Labs Job Number: C006063
Report Date: 2020/02/12

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

BV Labs ID					XH4485
Sampling Date					2020/01/29 11:00
COC Number					589613-05-01
	UNITS	**Maximun Aceptable Concentration**	**Aesthetic Objectives**	**Operational Guidance Values**	**WELL 778**
ANIONS					
Nitrite (N)	mg/L	1	-	-	<0.0050
Calculated Parameters					
Total Hardness (CaCO3)	mg/L	-	-	-	72.4
Nitrate (N)	mg/L	10	-	-	0.144
Total Organic Nitrogen (N)	mg/L	-	-	-	0.094
Sulphide (as H2S)	mg/L	-	0.05	-	<0.0020
Transmittance at 254nm	%T/cm	-	-	-	>97.7
Misc. Inorganics					
Conductivity	uS/cm	-	-	-	160
pH	pH	-	-	7.0:10.5	7.80
Total Organic Carbon (C)	mg/L	-	-	-	<0.50
Total Dissolved Solids	mg/L	-	-	-	84
Anions					
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0
Alkalinity (Total as CaCO3)	mg/L	-	-	-	72
Bicarbonate (HCO3)	mg/L	-	-	-	88
Carbonate (CO3)	mg/L	-	-	-	<1.0
Dissolved Fluoride (F)	mg/L	1.5	-	-	0.071
Hydroxide (OH)	mg/L	-	-	-	<1.0
Total Sulphide	mg/L	-	0.05	-	<0.0018
Dissolved Chloride (Cl)	mg/L	-	250	-	3.4
Dissolved Sulphate (SO4)	mg/L	-	500	-	6.1
MISCELLANEOUS					
True Colour	Col. Unit	-	15	-	<5.0
UV absorbance (254nm)	AU/cm	-	-	-	<0.010
Nutrients					
Total Ammonia (N)	mg/L	-	-	-	0.061
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.144
Total Nitrogen (N)	mg/L	-	-	-	0.300
Physical Properties					
Turbidity	NTU	see remark	see remark	see remark	0.14
Elements					

Total Mercury (Hg)	ug/L	1	-	-	<0.0020
Total Metals by ICPMS					
Total Aluminum (Al)	ug/L	-	-	100	<3.0
Total Antimony (Sb)	ug/L	6	-	-	<0.50
Total Arsenic (As)	ug/L	10	-	-	0.26
Total Barium (Ba)	ug/L	1000	-	-	3.0
Total Beryllium (Be)	ug/L	-	-	-	<0.10
Total Bismuth (Bi)	ug/L	-	-	-	<1.0
Total Boron (B)	ug/L	5000	-	-	<50
Total Cadmium (Cd)	ug/L	5	-	-	<0.010
Total Chromium (Cr)	ug/L	50	-	-	<1.0
Total Cobalt (Co)	ug/L	-	-	-	<0.20
Total Copper (Cu)	ug/L	2000	1000	-	25.3
Total Iron (Fe)	ug/L	-	300	-	43.5
Total Lead (Pb)	ug/L	5	-	-	0.88
Total Manganese (Mn)	ug/L	120	20	-	<1.0
Total Molybdenum (Mo)	ug/L	-	-	-	1.1
Total Nickel (Ni)	ug/L	-	-	-	<1.0
Total Selenium (Se)	ug/L	50	-	-	<0.10
Total Silicon (Si)	ug/L	-	-	-	10300
Total Silver (Ag)	ug/L	-	-	-	<0.020
Total Strontium (Sr)	ug/L	7000	-	-	81.0
Total Thallium (Tl)	ug/L	-	-	-	<0.010
Total Tin (Sn)	ug/L	-	-	-	<5.0
Total Titanium (Ti)	ug/L	-	-	-	<5.0
Total Uranium (U)	ug/L	20	-	-	0.64
Total Vanadium (V)	ug/L	-	-	-	<5.0
Total Zinc (Zn)	ug/L	-	5000	-	25.7
Total Zirconium (Zr)	ug/L	-	-	-	<0.10
Total Calcium (Ca)	mg/L	-	-	-	20.0
Total Magnesium (Mg)	mg/L	-	-	-	5.43
Total Potassium (K)	mg/L	-	-	-	0.342
Total Sodium (Na)	mg/L	-	200	-	5.44
Total Sulphur (S)	mg/L	-	-	-	<3.0
Microbiological Param.					
Heterotrophic Plate Count	CFU/mL	-	-	-	<1
Iron Bacteria	CFU/mL	-	-	-	<25
Sulphate reducing bacteria	CFU/mL	-	-	-	<75
Total Coliforms	CFU/100mL	0	-	-	0
E. coli	CFU/100mL	0	-	-	0
Calculated Parameters					
Langelier Index (@ 4.4C)	N/A	-	-	-	-0.934
Langelier Index (@ 60C)	N/A	-	-	-	0.107
Saturation pH (@ 4.4C)	N/A	-	-	-	8.73
Saturation pH (@ 60C)	N/A	-	-	-	7.69

No Fill No Exceedance

Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

N/A = Not Applicable

(1) Detection limits raised due to dilution to bring analyte within the calibrated range.

Results relate only to the items tested.