

## ANALYSIS FINAL REPORT

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**Lab reference:** 150342  
**P. O. number:** Thornhill CWS  
**Date received:** January 21, 2015  
**Date reported:** February 3, 2015

### Methodology:

All tests were done in accordance with standard procedures published by BC MoE, Health Canada, Environment Canada, the American Public Health Association, or the US EPA.

Approved by: Jesse Newton, B.Sc.  
Lab Manager

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Sample ID:			<b>Pumphouse #1</b>	<b>Pumphouse #2</b>	
Date:			<b>Jan 20/2015</b>	<b>Jan 20/2015</b>	
Time:			<b>10:21</b>	<b>10:31</b>	
<b>Parameter</b>	<b>Units</b>	<b>DWG</b>			<b>MDL</b>
Total Aluminum (Al)	mg/L	(0.2)	0.006	ND	0.005
Total Antimony (Sb)	mg/L	0.006	ND	ND	0.0001
Total Arsenic (As)	mg/L	0.010	ND	0.0008	0.0005
Total Barium (Ba)	mg/L	1.0	0.012	0.028	0.005
Total Beryllium (Be)	mg/L	-	ND	ND	0.0001
Total Bismuth (Bi)	mg/L	-	ND	ND	0.0001
Total Boron (B)	mg/L	5	0.006	0.011	0.004
Total Cadmium (Cd)	mg/L	0.005	0.00001	ND	0.00001
Total Calcium (Ca)	mg/L	-	22.9	35.9	0.2
Total Chromium (Cr)	mg/L	0.05	ND	ND	0.0005
Total Cobalt (Co)	mg/L	-	ND	ND	0.00005
Total Copper (Cu)	mg/L	(1.0)	0.0036	0.0016	0.0002
Total Iron (Fe)	mg/L	(0.3)	ND	ND	0.01
Total Lead (Pb)	mg/L	0.010	0.0002	0.0005	0.0001
Total Lithium (Li)	mg/L	-	0.0003	0.0009	0.0001
Total Magnesium (Mg)	mg/L	-	1.58	2.72	0.01
Total Manganese (Mn)	mg/L	(0.05)	ND	ND	0.0002
Total Mercury (Hg)	mg/L	0.001	ND	ND	0.00002
Total Molybdenum (Mo)	mg/L	-	0.0013	0.0007	0.0001
Total Nickel (Ni)	mg/L	-	ND	0.0006	0.0002
Total Phosphorus (P)	mg/L	-	ND	ND	0.02
Total Potassium (K)	mg/L	-	0.44	0.76	0.02
Total Selenium (Se)	mg/L	0.01	ND	ND	0.0005
Total Silicon (Si)	mg/L	-	5.1	5.2	0.5
Total Silver (Ag)	mg/L	-	ND	ND	0.00005
Total Sodium (Na)	mg/L	(200)	2.31	4.63	0.02
Total Strontium (Sr)	mg/L	-	0.075	0.118	0.001
Total Sulfur (S)	mg/L	-	4	4	1
Total Tellurium (Te)	mg/L	-	ND	ND	0.0002
Total Thallium (Tl)	mg/L	-	ND	ND	0.00002
Total Thorium (Th)	mg/L	-	ND	ND	0.0001
Total Tin (Sn)	mg/L	-	ND	ND	0.0002
Total Titanium (Ti)	mg/L	-	ND	ND	0.005
Total Uranium (U)	mg/L	0.02	0.00005	0.00024	0.00002
Total Vanadium (V)	mg/L	-	ND	ND	0.001
Total Zinc (Zn)	mg/L	(5)	0.009	0.011	0.004
Total Zirconium (Zr)	mg/L	-	ND	ND	0.0001
Hardness as CaCO <sub>3</sub>	mg/L	(500)	63.7	101	0.5

**DWG = BC or Canadian drinking water guidelines**

**( ) = indicates DWG limit is aesthetic, ie not health-related**

**MDL = Method detection limit**

**ND = less than the method detection limit indicated**

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pH	-	(6.5 - 8.5)	7.5	7.8	-
Conductivity	uS/cm	-	138	221	1
Total alkalinity as CaCO <sub>3</sub>	mg/L	-	63.6	94.5	1
Turbidity	NTU	1	0.16	0.23	0.05
Total dissolved solids	mg/L	(500)	79	122	1
True colour	PtCo units	(15)	ND	ND	1
Fluoride	mg/L	1.5	ND	ND	0.010
Chloride	mg/L	(250)	1.6	4.7	1
Sulfate as SO <sub>4</sub>	mg/L	(500)	2.3	4.5	0.50
Nitrate as N	mg/L	10	0.56	2.2	0.1
Nitrite as N	mg/L	1	ND	ND	0.01
Ammonia as N	mg/L	-	0.07	0.07	0.03
Langelier saturation index	-	-	-1.6	-1.0	-

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**NTU = Nephelometric turbidity units**