

ANALYTICAL REPORT

District of Port Edward
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Work Order: N706218

RECEIVED: 28-Jun-17

Project: Drinking Water
Project Number: -
Project Manager: Scott Duffus

REPORTED: 24-Jul-17

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

Northern Laboratories (2010) Ltd.



Jesse Newton
Laboratory Manager

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Work Order: N706218

LAB #	N706218-01	N706218-02
SAMPLED DATE	28-Jun-17	28-Jun-17
SAMPLED TIME	11:15	10:55
SAMPLE ID	WTP - Raw	Port Edward Public Works Sink

	MRL Units	CDWG		
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Anions (Water)

Chloride	1.0 mg/L	AO <= 250	1.7	19.8
Fluoride	0.05 mg/L	MAC = 1.5	<0.10	<0.10
Nitrite (as N)	0.01 mg/L	MAC = 1	<0.01	<0.01
Nitrate + Nitrite (as N)	0.10 mg/L	MAC = 10	<0.10	<0.10
Sulfate	1.0 mg/L	AO <= 500	1.6	1.1

General Parameters (Water)

pH	1.0 pH units	7.0-10.5	6.5	6.8
Alkalinity (total, as CaCO3)	1 mg/L	-	14	21
Conductivity	1.0 uS/cm	-	38.0	102
Colour	1 PtCo units	AO <= 15	76	1
Turbidity	0.05 NTU	MAC = 1	0.62	0.14
Solids, Total Dissolved / TDS	1.0 mg/L	AO <= 500	37	52
Carbon, Total Organic	0.50 mg/L	-	6.32	0.94
Ammonia (total as N)	0.03 mg/L	-	<0.03	<0.03
Nitrogen, Total Kjeldahl	0.050 mg/L	-	0.155	<0.050

Calculated Parameters (Water)

Total Haloacetic Acids (HAA5)	0.00200 mg/L	MAC = 0.08	<0.00200	0.0372
Total Trihalomethanes	0.00400 mg/L	MAC = 0.1	<0.00400	0.0492
Nitrate (as N)	0.10 mg/L	MAC = 10	<0.1	<0.1
Nitrogen, organic	0.0500 mg/L	-	0.155	<0.05
Hardness, Total (as CaCO3)	0.500 mg/L	-	15.6	12.6

Total Metals (Water)

Aluminum, total	0.0050 mg/L	OG < 0.1	0.154	0.0745
Antimony, total	0.00010 mg/L	MAC = 0.006	<0.00010	<0.00010
Arsenic, total	0.00050 mg/L	MAC = 0.01	<0.00050	<0.00050
Barium, total	0.0050 mg/L	MAC = 1	0.0163	0.0124
Beryllium, total	0.00010 mg/L	-	<0.00010	<0.00010
Bismuth, total	0.00010 mg/L	-	<0.00010	<0.00010
Boron, total	0.004 mg/L	MAC = 5	0.012	0.005
Cadmium, total	0.000010 mg/L	MAC = 0.005	0.000011	<0.000010
Calcium, total	0.20 mg/L	-	5.52	4.54
Chromium, total	0.00050 mg/L	MAC = 0.05	<0.00050	<0.00050

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Total Metals (continued)				
Cobalt, total	0.00010 mg/L	-	<0.00010	<0.00010
Copper, total	0.00020 mg/L	AO ≤ 1	0.00080	0.00890
Iron, total	0.010 mg/L	AO ≤ 0.3	0.336	0.012
Lead, total	0.00010 mg/L	MAC = 0.01	<0.00010	0.00026
Lithium, total	0.00010 mg/L	-	0.00014	0.00014
Magnesium, total	0.010 mg/L	-	0.446	0.312
Manganese, total	0.00020 mg/L	AO ≤ 0.05	0.0128	0.00283
Mercury, total	0.000020 mg/L	MAC = 0.001	<0.000020	<0.000020
Molybdenum, total	0.00010 mg/L	-	<0.00010	<0.00010
Nickel, total	0.00020 mg/L	-	0.00040	0.00024
Phosphorus, total	0.050 mg/L	-	<0.050	<0.050
Potassium, total	0.10 mg/L	-	0.42	0.31
Selenium, total	0.00050 mg/L	MAC = 0.05	<0.00050	<0.00050
Silicon, total	1.0 mg/L	-	1.5	1.0
Silver, total	0.000050 mg/L	-	<0.000050	<0.000050
Sodium, total	0.10 mg/L	AO ≤ 200	1.71	15.1
Strontium, total	0.0010 mg/L	-	0.0109	0.0088
Sulfur, total	3.0 mg/L	-	<3.0	<3.0
Tellurium, total	0.00020 mg/L	-	<0.00020	<0.00020
Thallium, total	0.000020 mg/L	-	<0.000020	<0.000020
Thorium, total	0.00010 mg/L	-	<0.00010	<0.00010
Tin, total	0.00020 mg/L	-	<0.00020	<0.00020
Titanium, total	0.0050 mg/L	-	<0.0050	<0.0050
Uranium, total	0.000020 mg/L	MAC = 0.02	<0.000020	<0.000020
Vanadium, total	0.0010 mg/L	-	<0.0010	<0.0010
Zinc, total	0.0040 mg/L	AO ≤ 5	<0.0040	0.0059
Zirconium, total	0.00010 mg/L	-	<0.00010	<0.00010

Haloacetic Acids (Water)

Monochloroacetic Acid	0.0020 mg/L	-	<0.0020 [1]	<0.0020 [1]
Monobromoacetic Acid	0.0020 mg/L	-	<0.0020 [1]	<0.0020 [1]
Dichloroacetic Acid	0.0020 mg/L	-	<0.0020 [1]	0.0199 [1]
Trichloroacetic Acid	0.0020 mg/L	-	<0.0020 [1]	0.0173 [1]
Dibromoacetic Acid	0.0020 mg/L	-	<0.0020 [1]	<0.0020 [1]

Volatile Organic Compounds (VOC) (Water)

Bromodichloromethane	0.0010 mg/L	-	<0.0010	0.0020
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Volatile Organic Compounds (VOC) (continued)				
Bromoform	0.0010 mg/L	-	<0.0010	<0.0010
Chloroform	0.0010 mg/L	-	<0.0010	0.0472
Dibromochloromethane	0.0010 mg/L	-	<0.0010	<0.0010

Special Notes

1 = The surrogate recovery for this sample is outside of established control limits .

Glossary of Terms

MRL	Method Reporting Limit
<	Less than the reported detection limit (RDL)
mg/L	Milligrams per Litre
NTU	Nephelometric Turbidity Units
pH units	pH units
PtCo units	Platinum Colbalt colour units
uS/cm	Micro Siemens per centimeter
MAC	Maximum Acceptable Concentration. Values above MAC are formatted with red text and solid outline.
AO	Aesthetic Objective (not health related). Values above AO are formatted with a dashed outline.
OG	Operational guideline (for treated water)

Standards / Guidelines Referenced

CDWG	Canadian Drinking Water Quality Guidelines (2014) http://www.hc-sc.gc.ca/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/sum_guide-res_recom-eng.pdf
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