

ANALYTICAL REPORT

Richard Green
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Project: -
Project Number: -
Project Manager: -

Work Order: N22E123

RECEIVED: 25-May-2022

REPORTED: 16-Aug-2022

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.

Hugh Booth For Jesse Newton
Laboratory Manager

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Work Order: N22E123

Analyte	Result	Guideline (CDWG)	MRL Units	Analyzed	Method Ref.	Notes
Sample ID: 1121 Old Lakelse Terrace (N22E123-01) , Sampled: 24-May-2022 09:25						
Anions						
Chloride	1.0	AO <= 250	1.0 mg/L	26-May-22	SM 4500-Cl D	
Fluoride	<0.10	MAC = 1.5	0.10 mg/L	30-May-22	SM 4500-F C	
Nitrite (as N)	<0.01	MAC = 1	0.01 mg/L	25-May-22	SM 4500-NO2 B	
Nitrate + Nitrite (as N)	0.19	MAC = 10	0.10 mg/L	25-May-22	SM 4500-NO3 E	
Sulfate	3.2	AO <= 500	1.0 mg/L	3-Jun-22	SM 4110 B (2017)	
General Parameters						
pH	6.5	7.0-10.5	1.0 pH units	25-May-22	SM 4500-H B	
Alkalinity (total, as CaCO ₃)	47	-	1 mg/L	25-May-22	SM 2320 B	
Conductivity	103	-	1.0 uS/cm	25-May-22	SM 2510 B	
Colour	3	AO <= 15	1 PtCo units	25-May-22	SM 2120 C	
Turbidity	0.57	MAC = 1	0.05 NTU	25-May-22	SM 2130 B	
Solids, Total Dissolved / TDS	73	AO <= 500	1.0 mg/L	25-May-22	SM 2540 C	
Calculated Parameters						
Nitrate (as N)	0.19	MAC = 10	0.10 mg/L	25-May-22	[CALC]	
Hardness, Total (as CaCO ₃)	44.1	-	0.500 mg/L	1-Jun-22	SM 2340 B* (2017)	
Total Metals						
Aluminum, total	0.0058	OG < 0.1	0.0050 mg/L	1-Jun-22	EPA 6020B	
Antimony, total	<0.00020	MAC = 0.006	0.00020 mg/L	1-Jun-22	EPA 6020B	
Arsenic, total	<0.00050	MAC = 0.01	0.00050 mg/L	1-Jun-22	EPA 6020B	
Barium, total	0.0084	MAC = 1	0.0050 mg/L	1-Jun-22	EPA 6020B	
Beryllium, total	<0.00010	-	0.00010 mg/L	1-Jun-22	EPA 6020B	
Bismuth, total	<0.00010	-	0.00010 mg/L	1-Jun-22	EPA 6020B	
Boron, total	<0.0500	MAC = 5	0.0500 mg/L	1-Jun-22	EPA 6020B	
Cadmium, total	<0.000010	MAC = 0.005	0.000010 mg/L	1-Jun-22	EPA 6020B	
Calcium, total	15.8	-	0.20 mg/L	1-Jun-22	EPA 6020B	
Chromium, total	<0.00050	MAC = 0.05	0.00050 mg/L	1-Jun-22	EPA 6020B	
Cobalt, total	<0.00010	-	0.00010 mg/L	1-Jun-22	EPA 6020B	
Copper, total	0.0134	AO = 1 MAC = 2	0.00040 mg/L	1-Jun-22	EPA 6020B	
Iron, total	0.010	AO <= 0.3	0.010 mg/L	1-Jun-22	EPA 6020B	
Lead, total	<0.00020	MAC = 0.005	0.00020 mg/L	1-Jun-22	EPA 6020B	
Lithium, total	0.00015	-	0.00010 mg/L	1-Jun-22	EPA 6020B	
Magnesium, total	1.11	-	0.010 mg/L	1-Jun-22	EPA 6020B	
Manganese, total	0.00061	AO <= 0.02 MAC = 0.12	0.00020 mg/L	1-Jun-22	EPA 6020B	
Mercury, total	<0.000010	MAC = 0.001	0.000010 mg/L	3-Jun-22	EPA 245.7*	
Molybdenum, total	0.00080	-	0.00010 mg/L	1-Jun-22	EPA 6020B	
Nickel, total	<0.00040	-	0.00040 mg/L	1-Jun-22	EPA 6020B	

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Analyte	Result	Guideline (CDWG)	MRL Units	Analyzed	Method Ref.	Notes
Sample ID: 1121 Old Lakelse Terrace (N22E123-01), Sampled: 24-May-2022 09:25						
Total Metals						
Phosphorus, total	<0.050	-	0.050 mg/L	1-Jun-22	EPA 6020B	
Potassium, total	0.78	-	0.10 mg/L	1-Jun-22	EPA 6020B	
Selenium, total	<0.00050	MAC = 0.05	0.00050 mg/L	1-Jun-22	EPA 6020B	
Silicon, total	5.1	-	1.0 mg/L	1-Jun-22	EPA 6020B	
Silver, total	<0.000050	-	0.000050 mg/L	1-Jun-22	EPA 6020B	
Sodium, total	1.36	AO ≤ 200	0.10 mg/L	1-Jun-22	EPA 6020B	
Strontium, total	0.0400	MAC = 7	0.0010 mg/L	1-Jun-22	EPA 6020B	
Sulfur, total	<3.0	-	3.0 mg/L	1-Jun-22	EPA 6020B	
Tellurium, total	<0.00050	-	0.00050 mg/L	1-Jun-22	EPA 6020B	
Thallium, total	<0.000020	-	0.000020 mg/L	1-Jun-22	EPA 6020B	
Thorium, total	<0.00010	-	0.00010 mg/L	1-Jun-22	EPA 6020B	
Tin, total	<0.00020	-	0.00020 mg/L	1-Jun-22	EPA 6020B	
Titanium, total	<0.0050	-	0.0050 mg/L	1-Jun-22	EPA 6020B	
Tungsten, total	<0.0002	-	0.0002 mg/L	1-Jun-22	EPA 6020B	
Uranium, total	0.000079	MAC = 0.02	0.000020 mg/L	1-Jun-22	EPA 6020B	
Vanadium, total	<0.0050	-	0.0050 mg/L	1-Jun-22	EPA 6020B	
Zinc, total	0.0168	AO ≤ 5	0.0040 mg/L	1-Jun-22	EPA 6020B	
Zirconium, total	<0.00010	-	0.00010 mg/L	1-Jun-22	EPA 6020B	
Microbiological Parameters						
Total Coliforms	<1	MAC = None Detected (<1)	1 MPN/100 mL	25-May-22	SM 9223 B	
E. coli	<1	MAC = None Detected (<1)	1 MPN/100 mL	25-May-22	SM 9223 B	

Bacteriological Parameters Comments

Lab Number N22E123-01 (Sample ID: "1121 Old Lakelse Terrace") contained (<1) Total Coliforms and (<1) E. coli per 100mL. Based solely on these results this water sample is bacteriologically safe for drinking, according to Health Canada's guidelines.

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Glossary of Terms

MRL	Method Reporting Limit
<	Less than the reported detection limit (RDL).
>	Greater than the reported value.

Units

uS/cm	Micro Siemens per centimeter
PtCo units	Platinum Cobalt colour units
pH units	pH units
NTU	Nephelometric Turbidity Units
MPN/100 mL	Most Probable Number per 100 mL
mg/L	Milligrams per Litre

Method

SM 9223 B	Standard Methods Online - Enzyme Substrate Coliform Test
SM 4500-NO ₃ E	Standard Methods Online - Nitrate by colorimetry
SM 4500-NO ₂ B	Standard Methods Online - Nitrite by colorimetry
SM 4500-H B	Standard Methods Online - pH by electrode
SM 4500-F C	Standard Methods Online - Fluoride ion by potentiometry
SM 4500-Cl D	Standard Methods Online - Chloride ion by potentiometry
SM 4110 B (2017)	Anions by IC
SM 2540 C	Standard Methods Online - Total dissolved solids
SM 2510 B	Standard Methods Online - Conductivity by meter
SM 2340 B* (2017)	Total Metals by ICPMS
SM 2320 B	Standard Methods Online - Alkalinity by titration
SM 2130 B	Standard Methods Online - Turbidity by nephelometry
SM 2120 C	Standard Methods Online - Colour by spectrophotometry
EPA 6020B	Total Metals by ICPMS
EPA 245.7*	Mercury by CVAFS

Guidelines Referenced

CDWG	Canadian Drinking Water Quality Guidelines (2019) https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/sum_guide-res_recom-eng.pdf
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 <u>underline</u> and dashed outline.