

Element #104, 19575-55 A Ave. Surrey, British Columbia V3S 8P8, Canada

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Report Transmission Cover Page

Bill To: City of Maple Ridge

Maple Ridge, BC, Canada

V3S 8P8

Attn: Mike Albrecht Sampled By: Mike Albrecht

Company: CMR Project ID:

Project Name: Potability Testing

Project Location:

LSD: P.O.:

Proj. Acct. code:

Lot ID: 1558672

Control Number:

Date Received: Mar 11, 2022 Date Reported: Mar 17, 2022

Report Number: 2727957

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Email - Single Report	PDF	COR				
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Delivery	<u>Format</u>	<u>Deliverables</u>				
Email - Single Report	PDF	COA				
Email - Single Report	PDF	Invoice				
Email - Single Report	PDF	Test Report				

Notes To Clients:

• Mar 17, 2022 - Sample 1558672-5; 7969080: The analysis of water sample 1558672-5 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the September 2020 Guidelines for Canadian Drinking Water Quality for the parameters tested.

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Analytical Report

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Sample Date Sample Time

11:35

Potability Testing

Sample Location

Sample Description

Sample Matrix

1558672-5 March 11, 2022

Thornhill Hall / 7.4 °C

Drinking Water

				Nominal Detection	Guideline	Guideline
Analyte		Units	Result	Limit	Limit	Comments
Metals Extractable						
Aluminum	Extractable	mg/L	0.010	0.001	0.1 OG; 2.9 MAC	Below OG
Antimony	Extractable	mg/L	0.00003	0.00002	0.006	Below MAC
Arsenic	Extractable	mg/L	0.0010	0.0001	0.010	Below MAC
Barium	Extractable	mg/L	0.0001	0.0001	2.0	Below MAC
Boron	Extractable	mg/L	0.39	0.002	5	Below MAC
Cadmium	Extractable	mg/L	0.00001	0.00001	0.007	Below MAC
Chromium	Extractable	mg/L	< 0.00005	0.00005	0.05	Below MAC
Copper	Extractable	mg/L	< 0.0005	0.0005	1 AO; 2 MAC	Below AO
Lead	Extractable	mg/L	0.00002	0.00001	0.005	Below MAC
Selenium	Extractable	mg/L	< 0.0002	0.0002	0.05	Below MAC
Strontium	Extractable	mg/L	0.0067	0.0001	7.0	Below MAC
Uranium	Extractable	mg/L	< 0.00001	0.00001	0.02	Below MAC
Vanadium	Extractable	mg/L	0.00088	0.00005		
Zinc	Extractable	mg/L	< 0.0005	0.0005	5.0	Below AO
Microbiological Analysis	5					
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
Physical and Aggregate	Properties					
Colour	True	Colour units	<5	5		
Turbidity		NTU	0.11	0.1	0.1/0.3/1.0 OG	
Routine Water						
pH - Holding Time			Exceeded			
рН	at 25 °C		9.25	0.01	7.0-10.5	Within Range
Electrical Conductivity		μS/cm at 25 °C	140	1		
Calcium	Extractable	mg/L	1.6	0.01		
Iron	Extractable	mg/L	< 0.004	0.004	0.3	Below AO
Magnesium	Extractable	mg/L	< 0.02	0.02		
Manganese	Extractable	mg/L	<0.001	0.001	0.02 AO; 0.12 MAC	Below AO
Potassium	Extractable	mg/L	0.17	0.04		
Silicon	Extractable	mg/L	13	0.005		
Sodium	Extractable	mg/L	28	0.1	200	Below AO
T-Alkalinity	as CaCO3	mg/L	63	5		
Chloride	Dissolved	mg/L	1.55	0.05	250	Below AO
Fluoride	Dissolved	mg/L	1.13	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	<0.01	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved	mg/L	1.9	0.1	500	Below AO



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Potability Testing

Sample Location

Sample Description Sample Matrix

Drinking Water

Thornhill Hall / 7.4 °C

Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Routine Water - Continu	ed					
Hardness	as CaCO3 (extractable)	mg/L	4.0	1		
Total Dissolved Solids	Extractable	mg/L	108	1	500	Below AO

Approved by:

Carol Nam, Dipl. T.

Quality Assurance Coordinator



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Methodology and Notes

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Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (BC)	APHA	* Alkalinity - Titration Method, 2320 B	Mar 14, 2022	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* Conductivity, 2510 B	Mar 14, 2022	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* pH - Electrometric Method, 4500-H+ B	Mar 14, 2022	Element Vancouver
Anions by IEC in water (VAN)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	Mar 11, 2022	Element Vancouver
Metals SemiTrace (Extractable) in water (VAN)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	Mar 11, 2022	Element Vancouver
Total and E-Coli - Colilert - DW (VAN)	APHA	Enzyme Substrate Test, APHA 9223 B	Mar 11, 2022	Element Vancouver
Trace Metals (extractable) in Water (VAN)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	Mar 11, 2022	Element Vancouver
True Color in water (VAN)	APHA	 * Spectrophotometric - Single Wavelength Method, 2120 C 	Mar 14, 2022	Element Vancouver
Turbidity - Water (VAN)	APHA	* Turbidity - Nephelometric Method, 2130 B	Mar 14, 2022	Element Vancouver

^{*} Reference Method Modified

References

APHA Standard Methods for the Examination of Water and Wastewater

US EPA US Environmental Protection Agency Test Methods

Guidelines

Guideline Description Health Canada GCDWQ

Guidelines for Canadian Drinking Water Quality, Health Canada, Sept 2020 Guideline Source

Guideline Comments MAC = Maximum Acceptable Concentration

AO = Aesthetic Objective

OG = Operational Guideline for Water Treatment Plants

(does not apply to private groundwater wells).

Refer to Health Canada for complete guidelines at www.hc-sc.gc.ca

Comments:

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> The comparison of test results to guideline limits is provided for information purposes only. This is not to be taken as a statement of conformance / nonconformance to any guideline, regulation or limit. The data user is responsible for all conclusions drawn with respect to the data and is advised to consult official regulatory references when evaluating compliance.

Please direct any inquiries regarding this report to our Client Services group. Results relate only to samples as submitted.

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