

## Report Transmission Cover Page

Bill To: City of Maple Ridge Maple Ridge, BC, Canada V3S 8P8	Project ID: Project Name: Potability Testing Project Location: LSD: P.O.: Proj. Acct. code:	Lot ID: <b>1558672</b> Control Number: Date Received: Mar 11, 2022 Date Reported: Mar 17, 2022 Report Number: 2727955
Attn: Mike Albrecht Sampled By: Mike Albrecht Company: CMR		

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Email - Single Report	PDF	COR
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<u>Delivery</u>	<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 1558672-3; 7969078: The analysis of water sample 1558672-3 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

Bill To: City of Maple Ridge Maple Ridge, BC, Canada V3S 8P8	Project ID: Project Name: Potability Testing Project Location: LSD: P.O.: Proj. Acct. code:	Lot ID: <b>1558672</b> Control Number: Date Received: Mar 11, 2022 Date Reported: Mar 17, 2022 Report Number: 2727955
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<b>Reference Number</b>	1558672-3
<b>Sample Date</b>	March 11, 2022
<b>Sample Time</b>	11:25
<b>Sample Location</b>	
<b>Sample Description</b>	Fire Hall #2 / 7.4 °C
<b>Sample Matrix</b>	Drinking Water

Sample Details			Drinking Water			
Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	0.003	0.001	0.1 OG; 2.9 MAC	Below OG
Antimony	Extractable	mg/L	0.00005	0.00002	0.006	Below MAC
Arsenic	Extractable	mg/L	0.0017	0.0001	0.010	Below MAC
Barium	Extractable	mg/L	<0.0001	0.0001	2.0	Below MAC
Boron	Extractable	mg/L	0.004	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	0.0012	0.0005	1 AO; 2 MAC	Below AO
Lead	Extractable	mg/L	0.00007	0.00001	0.005	Below MAC
Selenium	Extractable	mg/L	<0.0002	0.0002	0.05	Below MAC
Strontium	Extractable	mg/L	<0.0001	0.0001	7.0	Below MAC
Uranium	Extractable	mg/L	0.00002	0.00001	0.02	Below MAC
Vanadium	Extractable	mg/L	0.00079	0.00005		
Zinc	Extractable	mg/L	0.0033	0.0005	5.0	Below AO
Microbiological Analysis						
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	<0.10	0.1	0.1/0.3/1.0 OG	
Routine Water						
pH - Holding Time			Exceeded			
pH	at 25 °C		7.94	0.01	7.0-10.5	Within Range
Electrical Conductivity		µS/cm at 25 °C	100	1		
Calcium	Extractable	mg/L	<0.01	0.01		
Iron	Extractable	mg/L	0.005	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	0.12	0.04		
Silicon	Extractable	mg/L	7.5	0.005		
Sodium	Extractable	mg/L	24	0.1	200	Below AO
T-Alkalinity	as CaCO3	mg/L	52	5		
Chloride	Dissolved	mg/L	0.72	0.05	250	Below AO
Fluoride	Dissolved	mg/L	0.05	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	2.2	0.1	500	Below AO

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<b>Sample Matrix</b>	Drinking Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
<b>Routine Water - Continued</b>					
Hardness	as CaCO <sub>3</sub> (extractable)	mg/L	<1.00	1	
Total Dissolved Solids	Extractable	mg/L	78	1	500 Below AO

Approved by:



Carol Nam, Dipl. T.  
Quality Assurance Coordinator

Data have been validated by Analytical Quality Control and Element's Integrated Data Validation System (IDVS).

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## Methodology and Notes

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Sampled By: Mike Albrecht	Project Location:	Date Received: Mar 11, 2022
Company: CMR	LSD:	Date Reported: Mar 17, 2022
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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
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, Sept 2020
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 <a href="http://www.hc-sc.gc.ca">www.hc-sc.gc.ca</a>

## Comments:

- Mar 17, 2022 - Sample 1558672-3; 7969078: The analysis of water sample 1558672-3 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.

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.

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