

## Analytical Report

Bill To: Aaron Service 4703 Marine Avenue Powell River, BC, Canada V8A 2L2	Project ID: Project Name: Savary Shores Improvement Project Location: Savary Island P.O.: 440924 Proj. Acct. code:	Lot ID: <b>1889915</b> Control Number: Date Received: Apr 23, 2026 Date Reported: Apr 29, 2026 Report Number: 3258971 Report Type: Final Report
Attn: Coranne Anderson Sampled By: Janine Reimer Company: Administrator SSID		

<b>Reference Number</b>	1889915-2
<b>Sample Date</b>	April 22, 2026
<b>Sample Time</b>	09:34
<b>Sample Location</b>	
<b>Sample Description</b>	Savory Island Improvement / Well #2 / 5.0 °C
<b>Sample Matrix</b>	Drinking Water


Analyte	Units	Result	Nominal DL	Guideline Limit	Guideline Comments
<b>Aggregate Organic Constituents</b>					
UV Transmittance	%/cm	>100	0.1		
<b>Inorganic Nonmetallic Parameters</b>					
Tannin & Lignin	as Tannic Acid	mg/L	<0.1	0.1	
<b>Metals Extractable</b>					
Aluminum	Extractable	mg/L	<0.002	0.002	0.1 OG, 2.9 MAC
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006
Arsenic	Extractable	mg/L	<0.0002	0.0002	0.010
Barium	Extractable	mg/L	0.016	0.001	2.0
Boron	Extractable	mg/L	0.015	0.002	5
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.007
Chromium	Extractable	mg/L	<0.0005	0.0005	0.05
Copper	Extractable	mg/L	0.003	0.001	1 AO, 2 MAC
Lead	Extractable	mg/L	<0.0001	0.0001	0.005
Selenium	Extractable	mg/L	<0.0002	0.002	0.05
Strontium	Extractable	mg/L	0.134	0.005	7.0
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02
Vanadium	Extractable	mg/L	0.0010	0.0003	
Zinc	Extractable	mg/L	0.002	0.001	5.0
<b>Microbiological Analysis</b>					
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL
<b>Physical and Aggregate Properties</b>					
Colour	True	Colour units	<5	5	
Turbidity		NTU	0.37	0.1	
<b>Routine Water</b>					
pH			6.68	0.01	7.0-10.5
					Below Recommended Range
pH - Holding Time			Exceeded		
Temp. of observed pH		°C	21.0		
Electrical Conductivity	at 25 °C	µS/cm	335	1	
Calcium	Extractable	mg/L	16	0.2	
Iron	Extractable	mg/L	<0.01	0.01	0.1
Magnesium	Extractable	mg/L	7.5	0.2	
Manganese	Extractable	mg/L	<0.005	0.005	0.02 AO, 0.12 MAC
Potassium	Extractable	mg/L	2.0	0.4	
Silicon	Extractable	mg/L	14	0.05	
Sodium	Extractable	mg/L	28	0.4	200
					Below AO

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Analyte	Units	Result	Nominal DL	Guideline Limit	Guideline Comments
<b>Routine Water - Continued</b>					
T-Alkalinity	as CaCO <sub>3</sub>	mg/L	43	5	
Chloride	Dissolved	mg/L	62.2	0.05	250 Below AO
Fluoride	Dissolved	mg/L	0.03	0.01	1.5 Below MAC
Nitrate - N	Dissolved	mg/L	2.78	0.01	10 Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1.0 Below MAC
Sulfate (SO <sub>4</sub> )	Dissolved	mg/L	9.7	0.1	500 Below AO
Hardness	as CaCO <sub>3</sub> (extractable)	mg/L	71	1	
Total Dissolved Solids	Extractable	mg/L	201	1	500 Below AO

Approved by:   
 Reena Sharma  
 Operations Chemist

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

Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process.

## 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	Apr 24, 2026	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* Conductivity, 2510 B	Apr 24, 2026	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* pH - Electrometric Method, 4500-H+ B	Apr 24, 2026	Element Vancouver
Anions by IEC in water (VAN)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	Apr 23, 2026	Element Vancouver
Metals SemiTrace (Extractable) in water (VAN)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	Apr 24, 2026	Element Vancouver
Tannin and Lignin in water (VAN)	APHA	* Colorimetric Method, 5550 B	Apr 28, 2026	Element Vancouver
Total and E-Coli - Colilert - DW (VAN)	APHA	Enzyme Substrate Test, APHA 9223 B	Apr 23, 2026	Element Vancouver
Trace Metals (extractable) in Water (VAN)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	Apr 24, 2026	Element Vancouver
True Color in water (VAN)	APHA	* Spectrophotometric - Single Wavelength Method, 2120 C	Apr 23, 2026	Element Vancouver
Turbidity - Water (VAN)	APHA	* Turbidity - Nephelometric Method, 2130 B	Apr 23, 2026	Element Vancouver
Ultraviolet Transmittance in Water	APHA	* Ultraviolet Absorption Method, 5910 B	Apr 24, 2026	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, December 2025
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:

- Sample 1889915-1; 10547454: The analysis of water sample 1889915-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the December 2025 Guidelines for Canadian Drinking Water Quality for the parameters tested.
- Sample 1889915-2; 10547459: The analysis of water sample 1889915-2 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the December 2025 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.  
Results relate only to samples as submitted.

The test report shall not be reproduced except in full, without the written approval of the laboratory.

## Report Transmission Cover Page

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Contact	Company	Address
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Delivery	Format	Deliverables
Email - Merge	PDF	COC / Test Report
Email - Merge	PDF	Invoice

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Delivery	Format	Deliverables
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Email - Merge	PDF	COC / Test Report
Email - Merge	PDF	Invoice

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### Notes To Clients:

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- Sample 1889915-2; 10547459: The analysis of water sample 1889915-2 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the December 2025 Guidelines for Canadian Drinking Water Quality for the parameters tested.

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