

## Report Transmission Cover Page

Bill To: Aaron Service 4703 Marine Avenue Powell River, BC, Canada V8A 2L2	Project ID: Project Name: Savary Shores Project Location: 2785 Vancouver Blvd LSD: Savary Island P.O.: 401346 Proj. Acct. code:	Lot ID: <b>1689161</b> Control Number: Date Received: Oct 25, 2023 Date Reported: Oct 30, 2023 Report Number: 2932647
Attn: Coranne Anderson Sampled By: Flora Tremblay Company:		

Contact	Company	Address
<b>Accounts Payable</b>	<b>Aaron Service</b>	4703 Marine Avenue Powell River, BC V8A 2L2 Phone: (604) 485-5611 Fax: (604) 485-6858 Email: sales@aaronservice.com

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

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

Contact	Company	Address
<b>Ryan Anderson</b>	<b>Aaron Service</b>	4703 Marine Avenue Powell River, BC V8A 2L2 Phone: (604) 485-5611 Fax: (604) 485-6858 Email: ryan@aaronservice.com,ryan.aaronservice@gmail.com

Delivery	Format	Deliverables
Email - Merge	PDF	COC / Test Report

Contact	Company	Address
<b>Trevor Anderson</b>	<b>Aaron Service</b>	4703 Marine Avenue Powell River, BC V8A 2L2 Phone: (604) 485-5611 Fax: (604) 485-6858 Email: trevor@aaronservice.com

Delivery	Format	Deliverables
Email - Merge	PDF	COC / Test Report

### Notes To Clients:

- Oct 26, 2023 - Sample 1689161-1; 8932191: Reduction of analytical volume was necessary for chloride analysis to bring results within the analytical range for sample 1689161-1. Detection limits are adjusted accordingly.
- Oct 30, 2023 - The analysis of water sample 1689161-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the September 2022 Guidelines for Canadian Drinking Water Quality for the parameters tested.

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## Analytical Report

Bill To: Aaron Service 4703 Marine Avenue Powell River, BC, Canada V8A 2L2	Project ID: Project Name: Savary Shores Project Location: 2785 Vancouver Blvd LSD: Savary Island P.O.: 401346 Proj. Acct. code:	Lot ID: <b>1689161</b> Control Number: Date Received: Oct 25, 2023 Date Reported: Oct 30, 2023 Report Number: 2932647
Attn: Coranne Anderson Sampled By: Flora Tremblay Company:		

<b>Reference Number</b>	1689161-1
<b>Sample Date</b>	October 24, 2023
<b>Sample Time</b>	09:00
<b>Sample Location</b>	
<b>Sample Description</b>	Savary Shores Improvement District / 3.9 °C
<b>Sample Matrix</b>	Drinking Water


Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
<b>Aggregate Organic Constituents</b>					
UV Transmittance	%/cm	98.6	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	<0.001	0.001	0.1 OG; 2.9 MAC
Antimony	Extractable	mg/L	0.00003	0.00002	0.006
Arsenic	Extractable	mg/L	0.0001	0.0001	0.010
Barium	Extractable	mg/L	0.0087	0.0001	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	0.00022	0.00005	0.05
Copper	Extractable	mg/L	0.0087	0.0005	1 AO; 2 MAC
Lead	Extractable	mg/L	0.00004	0.00001	0.005
Selenium	Extractable	mg/L	<0.0002	0.0002	0.05
Strontium	Extractable	mg/L	0.12	0.0001	7.0
Uranium	Extractable	mg/L	0.00022	0.00001	0.02
Vanadium	Extractable	mg/L	0.0012	0.00005	
Zinc	Extractable	mg/L	0.0012	0.0005	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	0.35	0.1	0.1/0.3/1.0 OG
<b>Routine Water</b>					
pH - Holding Time			Exceeded		
pH	at 25 °C		6.89	0.01	7.0-10.5
Electrical Conductivity		µS/cm at 25 °C	225	1	
Calcium	Extractable	mg/L	15	0.01	
Iron	Extractable	mg/L	<0.004	0.004	0.3
Magnesium	Extractable	mg/L	5.7	0.02	
Manganese	Extractable	mg/L	<0.001	0.001	0.02 AO; 0.12 MAC
Potassium	Extractable	mg/L	1.9	0.04	
Silicon	Extractable	mg/L	13	0.005	
Sodium	Extractable	mg/L	19	0.1	200
T-Alkalinity	as CaCO3	mg/L	45	5	
Chloride	Dissolved	mg/L	31.0	0.05	250

**Analytical Report**

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Attn: Coranne Anderson Sampled By: Flora Tremblay Company:		

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<b>Sample Date</b>	October 24, 2023
<b>Sample Time</b>	09:00
<b>Sample Location</b>	
<b>Sample Description</b>	Savary Shores Improvement District / 3.9 °C
<b>Sample Matrix</b>	Drinking Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments	
<b>Routine Water - Continued</b>						
Fluoride	Dissolved	mg/L	0.02	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	4.14	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved	mg/L	5.7	0.1	500	Below AO
Hardness	as CaCO3 (extractable)	mg/L	60	1		
Total Dissolved Solids	Extractable	mg/L	159	1	500	Below AO

Approved by:   
 Max Hewitt  
 Operations Manager

## Methodology and Notes

Bill To: Aaron Service 4703 Marine Avenue Powell River, BC, Canada V8A 2L2	Project ID: Project Name: Savary Shores Project Location: 2785 Vancouver Blvd LSD: Savary Island P.O.: 401346 Proj. Acct. code:	Lot ID: <b>1689161</b> Control Number: Date Received: Oct 25, 2023 Date Reported: Oct 30, 2023 Report Number: 2932647
Attn: Coranne Anderson Sampled By: Flora Tremblay Company:		

## Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (BC)	APHA	* Alkalinity - Titration Method, 2320 B	Oct 26, 2023	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* Conductivity, 2510 B	Oct 26, 2023	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* pH - Electrometric Method, 4500-H+ B	Oct 26, 2023	Element Vancouver
Anions by IEC in water (VAN)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	Oct 25, 2023	Element Vancouver
Metals SemiTrace (Extractable) in water (VAN)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	Oct 26, 2023	Element Vancouver
Tannin and Lignin in water (VAN)	APHA	* Colorimetric Method, 5550 B	Oct 30, 2023	Element Vancouver
Total and E-Coli - Colilert - DW (VAN)	APHA	Enzyme Substrate Test, APHA 9223 B	Oct 25, 2023	Element Vancouver
Trace Metals (extractable) in Water (VAN)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	Oct 26, 2023	Element Vancouver
True Color in water (VAN)	APHA	* Spectrophotometric - Single Wavelength Method, 2120 C	Oct 26, 2023	Element Vancouver
Turbidity - Water (VAN)	APHA	* Turbidity - Nephelometric Method, 2130 B	Oct 26, 2023	Element Vancouver
Ultraviolet Transmittance in Water	APHA	* Ultraviolet Absorption Method, 5910 B	Oct 27, 2023	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:

- Oct 26, 2023 - Sample 1689161-1; 8932191: Reduction of analytical volume was necessary for chloride analysis to bring results within the analytical range for sample 1689161-1. Detection limits are adjusted accordingly.
- Oct 30, 2023 - The analysis of water sample 1689161-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the September 2022 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.



**Invoice To:**

Company **Aaron Service**  
 Address **4703 Marine Avenue**  
**Powell River, BC V8A 2L2**  
 Attention **Coranne Anderson**  
 Phone **604-485-5611**  
 Cell \_\_\_\_\_  
 Fax \_\_\_\_\_  
 E-mail **coranne@aaronservice.com**  
 Agreement ID **66993**  
 Copy of Report \_\_\_\_\_

**Report To:**

Company **Aaron Service**  
 Address **4703 Marine Avenue**  
**Powell River, BC V8A 2L2**  
 Attention **Coranne Anderson**  
 Phone **604-485-5611**  
 Cell \_\_\_\_\_  
 Fax \_\_\_\_\_  
 E-mail 1 **coranne@aaronservice.com**  
 E-mail 2 **sales@aaronservice.com**  
 Copy of Invoice \_\_\_\_\_

**Report Results**      **Regulatory Requirement**

E-Mail	X	HCDWQG	
Mail		Ab Tier 1	
Online		SPIGEC	
Fax		BCCSR	
PDF		Other (list below)	
Excel			
QA/QC			

**Project Information**

Project ID \_\_\_\_\_  
 Project Name **Savary Shores**  
 Project Location **Savary Island**  
 Legal Location **2785 Vancouver Blvd**  
 PO/AFE# **401346**  
 Proj. Acct. Code \_\_\_\_\_  
 Quote # \_\_\_\_\_

**RUSH Priority**

**Emergency (contact lab for turnaround and pricing)**  
 **Priority 1-2 working days (100% surcharge)**  
 **Urgent 2-3 working days (50% surcharge)**

When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples. If not all samples require RUSH, please indicate in the special instructions.

Number of Containers	W99	DW20	T/L	UVT	TOC	M99R (repeat total & e'coli)	M99S (includes HPC)

**Sample Custody (please print)**

Sampled by: **Flora Tremblay**  
 Company: \_\_\_\_\_  
 I authorize Exova to proceed with the work indicated on this form:  
 Date: \_\_\_\_\_ Initial: \_\_\_\_\_

**This section for Lab use**

Date/Time stamp: **OCT 25 12:13**

Date Required \_\_\_\_\_ Signature \_\_\_\_\_  
 Special Instructions/Comments (please include contact information including ph. # if different from above).

**CUSTOMER PHONE NUMBER: (250) 682-5600**

**CUSTOMER EMAIL: administrator@savaryshorewater.ca**

Site I.D.	Sample description	Depth		Date/Time sampled	Matrix	Sampling method	Enter tests above (✓ relevant samples below)														
		start	end				W99	DW20	T/L	UVT	TOC	M99R	M99S								
1																					
2																					
3	2785 Vancouver Blvd. Savary Island			Oct 24 9am																	
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Indicate in the space allotted any deficiencies by the corresponding number.

1. Indicate any samples that were not packaged well
2. Indicate any samples not received in Exova supplies
3. Indicate any samples that were not clearly labeled
4. Indicate any samples not received within the required hold time or temp.
5. Indicate any missing or extra samples
6. Indicate any samples that were received broken
7. Indicate any samples where sufficient volume was not received
8. Indicate any samples received in an inappropriate container

**Environmental Sample Information Sheet**

Note: Proper completion of this form is required in order to proceed with analysis  
 Please indicate any potentially hazardous samples

Page \_\_\_\_\_ of \_\_\_\_\_ Control # \_\_\_\_\_

Lot: 1689161 <sup>COC</sup>



Shipping: COD Y/N  
 # and size of coolers  
 Temp. received: **3-9**  
 Delivery Method: **Call**  
 Waybill:  
 Received by: **ETB**