

Report Transmission Cover Page

Bill To: Aaron Service 4703 Marine Avenue Powell River, BC, Canada V8A 2L2	Project ID: Savary Shores Project Name: Improvement District Project Location: Savary Island LSD: 339865 P.O.: 339865 Proj. Acct. code:	Lot ID: 1377899 Control Number: Date Received: Sep 19, 2019 Date Reported: Sep 25, 2019 Report Number: 2443049
Attn: Coranne Anderson Sampled By: Courtney Company: Customer		

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

Delivery	Format	Deliverables
Email - Single Report	PDF	COR
Email - Single Report	PDF	Invoice
Email - Single Report	PDF	Test Report

Contact	Company	Address
Coranne Anderson	Aaron Service	4703 Marine Avenue Powell River, BC V8A 2L2 Phone: (604) 485-5611 Fax: (604) 485-6858 Email: coranne@aaronservice.com

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

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

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

Contact	Company	Address
Trevor Anderson	Aaron Service	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 Reports	PDF	Test Report

Notes To Clients:

- Sep 23, 2019 - Sample 1377899-1; 6757869: Reduction of analytical volume was necessary for chloride analysis to bring results within the analytical range for sample 1377899-1. Detection limits are adjusted accordingly.
- Sep 25, 2019 - The analysis of water sample 1377899-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the June 2019 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: Savary Shores Project Name: Improvement District Project Location: Savary Island LSD: 339865 P.O.: 339865 Proj. Acct. code:	Lot ID: 1377899 Control Number: Date Received: Sep 19, 2019 Date Reported: Sep 25, 2019 Report Number: 2443049
Attn: Coranne Anderson Sampled By: Courtney Company: Customer		

Reference Number	1377899-1
Sample Date	September 18, 2019
Sample Time	09:33
Sample Location	
Sample Description	Well # 2-Savary Shores Improvement District / 7.8°C
Sample Matrix	Drinking Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments	
Inorganic Nonmetallic Parameters						
Tannin & Lignin	as Tannic Acid	mg/L	<0.1	0.1		
Metals Extractable						
Aluminum	Extractable	mg/L	<0.001	0.001	0.1	Below OG
Antimony	Extractable	mg/L	<0.00002	0.00002	0.006	Below MAC
Arsenic	Extractable	mg/L	<0.0001	0.0001	0.010	Below MAC
Barium	Extractable	mg/L	0.0151	0.0001	1	Below MAC
Boron	Extractable	mg/L	0.015	0.002	5	Below MAC
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	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	0.00001	0.00001	0.005	Below MAC
Selenium	Extractable	mg/L	<0.0002	0.0002	0.05	Below MAC
Strontium	Extractable	mg/L	0.1239	0.0001	7.0	Below MAC
Uranium	Extractable	mg/L	0.00016	0.00001	0.02	Below MAC
Vanadium	Extractable	mg/L	0.00118	0.00005		
Zinc	Extractable	mg/L	0.0038	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	0.12	0.1	0.1	Below AO
Routine Water						
pH - Holding Time			Exceeded			
pH	at 25 °C		7.07	0.01	7.0-10.5	Within Range
Electrical Conductivity		µS/cm at 25 °C	307	1		
Calcium	Extractable	mg/L	14	0.01		
Iron	Extractable	mg/L	<0.004	0.004	0.3	Below AO
Magnesium	Extractable	mg/L	6.1	0.02		
Manganese	Extractable	mg/L	<0.001	0.001	0.02 AO; 0.12 MAC	Below AO
Potassium	Extractable	mg/L	1.7	0.04		
Silicon	Extractable	mg/L	12	0.005		
Sodium	Extractable	mg/L	28	0.1	200	Below AO
T-Alkalinity	as CaCO3	mg/L	45	5		
Chloride	Dissolved	mg/L	50.8	0.05	250	Below AO
Fluoride	Dissolved	mg/L	0.08	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	2.27	0.01	10	Below MAC

Analytical Report

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Attn: Coranne Anderson Sampled By: Courtney Company: Customer		

Reference Number	1377899-1
Sample Date	September 18, 2019
Sample Time	09:33
Sample Location	
Sample Description	Well # 2-Savary Shores Improvement District / 7.8°C
Sample Matrix	Drinking Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Routine Water - Continued					
Nitrite - N	Dissolved mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved mg/L	9.6	0.1	500	Below AO
Hardness	as CaCO3 (extractable) mg/L	61	1		
Total Dissolved Solids	Extractable mg/L	182	1		

Approved by: 
 Mathieu Simoneau
 Operations Manager

Methodology and Notes

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Attn: Coranne Anderson Sampled By: Courtney Company: Customer		

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (BC)	APHA	* Alkalinity - Titration Method, 2320 B	Sep 19, 2019	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* Conductivity, 2510 B	Sep 19, 2019	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* pH - Electrometric Method, 4500-H+ B	Sep 19, 2019	Element Vancouver
Anions by IEC in water (VAN)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	Sep 19, 2019	Element Vancouver
Metals SemiTrace (Extractable) in water (VAN)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	Sep 20, 2019	Element Vancouver
Tannin and Lignin in water (VAN)	APHA	* Colorimetric Method, 5550 B	Sep 23, 2019	Element Vancouver
Total and E-Coli - Colilert - DW (VAN)	APHA	Enzyme Substrate Test, APHA 9223 B	Sep 19, 2019	Element Vancouver
Trace Metals (extractable) in Water (VAN)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	Sep 20, 2019	Element Vancouver
True Color in water (VAN)	APHA	* Spectrophotometric - Single Wavelength Method, 2120 C	Sep 19, 2019	Element Vancouver
Turbidity - Water (VAN)	APHA	* Turbidity - Nephelometric Method, 2130 B	Sep 20, 2019	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, June 2019
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:

- Sep 23, 2019 - Sample 1377899-1; 6757869: Reduction of analytical volume was necessary for chloride analysis to bring results within the analytical range for sample 1377899-1. Detection limits are adjusted accordingly.
- Sep 25, 2019 - The analysis of water sample 1377899-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the June 2019 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.



Testing,
calibrating,
advising.

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Project Information

Project ID Savary Shores
 Project Name Improvement Dist
 Project Location _____
 Legal Location Savary Island
 PO/AFE# 339865
 Proj. Acct. Code _____
 Quote # _____

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 trevor@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			

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.

Date Required _____ Signature _____

Special Instructions/Comments (please include contact information including ph. # if different from above).

Wat. test. Cdn. Drinking Water - WPP DW20 T-11

Number of Containers	W99	DW20	T/L	UVT	TOC	M99R (repeat total & e.coli)	M99S (includes HPC)

Sample Custody (please print)
 Sampled by: Courtney
 Company: Customer
 I authorize Exova to proceed with the work indicated on this form:
 Date: _____ Initial: _____
This section for Lab use
 Date/Time stamp: _____

Site I.D.	Sample description	Depth start end in cm m	Date/Time sampled	Matrix	Sampling method	Enter tests above (√ relevant samples below)														
1	<u>Savary Shores Improvement Dist.</u>		<u>Sept 18</u>																	
2																				
3			<u>9:33</u>																	
4																				
5	<u>Well # 2</u>																			
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

SEP 19 2011
 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

Int

Lot: 1377899 COC



Shipping: COD Y/N

and size of coolers

Temp. received: 7.8°C

Delivery Method: Cooler

Waybill: