

Report Transmission Cover Page

Bill To: Aaron Service 4703 Marine Avenue Powell River, BC, Canada V8A 2L2 Attn: Coranne Anderson Sampled By: Courtney Robertson Company: Aaron Service	Project ID: Savary Shores Imp. Project Name: Well #1 Project Location: Savary Island LSD: P.O.: Proj. Acct. code:	Lot ID: 1299374 Control Number: Date Received: Sep 20, 2018 Date Reported: Sep 25, 2018 Report Number: 2324834
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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

Ryan Anderson	Aaron Service	4703 Marine Avenue Powell River, BC V8A 2L2 Phone: (604) 485-5611 Fax: (604) 485-6858 Email: ryan@aaronservice.com
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Delivery	Format	Deliverables
Email - Merge Reports	PDF	COC / Test Report

Trevor Anderson	Aaron Service	4703 Marine Avenue Powell River, BC V8A 2L2 Phone: (604) 485-5611 Fax: (604) 485-6858 Email: trevor@aaronservice.com
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Delivery	Format	Deliverables
Email - Merge Reports	PDF	Test Report

Notes To Clients:

- Sep 25, 2018 - Sample 1299374-1; 6270105: Reduction of analytical volume was necessary for Chloride analysis due to matrix effects in sample # 1299374-1. Detection limits are adjusted accordingly.

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Analytical Report

Bill To: Aaron Service 4703 Marine Avenue Powell River, BC, Canada V8A 2L2 Attn: Coranne Anderson	Project ID: Savary Shores Imp. Project Name: Well #1 Project Location: Savary Island LSD: P.O.:	Lot ID: 1299374 Control Number: Date Received: Sep 20, 2018 Date Reported: Sep 25, 2018 Report Number: 2324834
Sampled By: Courtney Robertson Company: Aaron Service	Proj. Acct. code:	

Reference Number	1299374-1
Sample Date	September 19, 2018
Sample Time	09:23
Sample Location	
Sample Description	Well #1 / Savary Shores Improvement / 10.4 °C
Sample Matrix	Drinking Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
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	0.0071	0.0001	1	Below MAC
Boron	Extractable mg/L	0.017	0.002	5	Below MAC
Cadmium	Extractable mg/L	<0.00001	0.00001	0.005	Below MAC
Chromium	Extractable mg/L	0.00006	0.00005	0.05	Below MAC
Copper	Extractable mg/L	<0.0005	0.0005	1.0	Below AO
Lead	Extractable mg/L	0.00003	0.00001	0.01	Below MAC
Selenium	Extractable mg/L	<0.0002	0.0002	0.05	Below MAC
Uranium	Extractable mg/L	0.00019	0.00001	0.02	Below MAC
Vanadium	Extractable mg/L	0.00105	0.00005		
Zinc	Extractable mg/L	0.0065	0.0005	5.0	Below AO
Physical and Aggregate Properties					
Colour	True	Colour units	<5	5	
Turbidity		NTU	0.49	0.05	
Routine Water					
pH - Holding Time			Exceeded		
pH	at 25 °C		6.94	0.01	7.0-10.5 Below Range
Electrical Conductivity		µS/cm at 25 °C	235	1	
Calcium	Extractable mg/L	14	0.01		
Iron	Extractable mg/L	0.014	0.004	0.3	Below AO
Magnesium	Extractable mg/L	5.5	0.02		
Manganese	Extractable mg/L	0.005	0.001	0.05	Below AO
Potassium	Extractable mg/L	1.8	0.04		
Silicon	Extractable mg/L	12	0.005		
Sodium	Extractable mg/L	17	0.1	200	Below AO
T-Alkalinity	as CaCO3 mg/L	41	5		
Chloride	Dissolved mg/L	31.8	0.05	250	Below AO
Fluoride	Dissolved mg/L	0.01	0.01	1.5	Below MAC
Nitrate - N	Dissolved mg/L	4.56	0.01	10	Below MAC
Nitrite - N	Dissolved mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved mg/L	4.7	0.1	500	Below AO
Hardness	as CaCO3 (extractable) mg/L	58	1		
Total Dissolved Solids	Extractable mg/L	152	1		

Analytical Report

Bill To: Aaron Service
4703 Marine Avenue
Powell River, BC, Canada
V8A 2L2
Attn: Coranne Anderson
Sampled By: Courtney Robertson
Company: Aaron Service

Project ID: Savary Shores Imp.
Project Name: Well #1
Project Location: Savary Island
LSD:
P.O.:
Proj. Acct. code:

Lot ID: **1299374**
Control Number:
Date Received: Sep 20, 2018
Date Reported: Sep 25, 2018
Report Number: 2324834

Approved by:



Carol Nam, Dipl. T.
Quality Officer

Data have been validated by Analytical Quality Control and Exova'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

Bill To: Aaron Service 4703 Marine Avenue Powell River, BC, Canada V8A 2L2 Attn: Coranne Anderson	Project ID: Savary Shores Imp. Project Name: Well #1 Project Location: Savary Island LSD: P.O.:	Lot ID: 1299374 Control Number: Date Received: Sep 20, 2018 Date Reported: Sep 25, 2018 Report Number: 2324834
Sampled By: Courtney Robertson Company: Aaron Service	Proj. Acct. code:	

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 20, 2018	Exova Surrey
Alk, pH, EC, Turb in water (BC)	APHA	* Conductivity, 2510 B	Sep 20, 2018	Exova Surrey
Alk, pH, EC, Turb in water (BC)	APHA	* pH - Electrometric Method, 4500-H+ B	Sep 20, 2018	Exova Surrey
Anions by IEC in water (Surrey)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	Sep 20, 2018	Exova Surrey
Metals SemiTrace (Extractable) in water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	Sep 20, 2018	Exova Surrey
Trace Metals (extractable) in Water (Surrey)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	Sep 20, 2018	Exova Surrey
True Color in water (Surrey)	APHA	* Spectrophotometric - Single Wavelength Method, 2120 C	Sep 21, 2018	Exova Surrey
Turbidity - Water (Surrey)	APHA	* Turbidity - Nephelometric Method, 2130 B	Sep 21, 2018	Exova Surrey

* 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, February 2017
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 25, 2018 - Sample 1299374-1; 6270105: Reduction of analytical volume was necessary for Chloride analysis due to matrix effects in sample # 1299374-1. Detection limits are adjusted accordingly.

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 or to the Operations Manager at the coordinates indicated at the top left of this page.

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 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			

Project Information

Project ID Savary Shores
Project Name Savary Shores
Project Location 1 ID Well #1
Legal Location Well #1
PO/AFE# _____
Proj. Acct. Code _____
Quote # _____

RUSH Priority

<input type="checkbox"/> Emergency (contact lab for turnaround and pricing)	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.
<input type="checkbox"/> Priority 1-2 working days (100% surcharge)	
<input type="checkbox"/> Urgent 2-3 working days (50% surcharge)	

Date Required _____ Signature _____

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

WAT. TEST NITRATES WAT. TEST TW20 ^{W99} Extractable
Metals

Site I.D.	Sample description	Depth		Date/Time sampled	Matrix	Sampling method	↓	Enter tests above (√ relevant samples below)													
		start	end					in	cm	in	m	W99	DW20	T/L	UVT	TOC	M99R (repeat total & e'coll)	M99S (includes HPC)			
1																					
2																					
3	<u>Savary Shores Well #1</u>			<u>Sept 9</u>																	
4				<u>9:23</u>																	
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Sample Custody (please print)

Sampled by: Courtney Robertson
Company: Aaron Service
I authorize Exova to proceed with the work indicated on this form.
Date: _____ Initial: _____

This section for Lab use

Date/Time stamp: SEP 20 '18 8:41
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

Indices

Note: Proper completion of this form is required in order to proceed with analysis

Please indicate any potentially hazardous samples

Page _____ of _____ Control # _____

Lot: 1299374 COC



Shipping: CQD Y/N

and size of coolers

Temp. received 10.4°C

Delivery Method:

Waybill:

Received by: