

Report Transmission Cover Page

Bill To: Aaron Service 4703 Marine Avenue Powell River, BC, Canada V8A 2L2	Project ID: Savary Shores Improvement	Lot ID: 1265618
Attn: Coranne Anderson	Project Name: Savary Shores Improvement	Control Number:
Sampled By: Courtney Robertson	Project Location: Well # 1	Date Received: Apr 19, 2018
Company: Savary Shores Improv.	LSD:	Date Reported: Apr 24, 2018
	P.O.: 320730	Report Number: 2278942
	Proj. Acct. code:	

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

Contact	Company	Address
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Delivery	Format	Deliverables
Email - Merge Reports	PDF	Test Report

Notes To Clients:

- Apr 20, 2018 - Sample 1265618-1; 6066764: Reduction of analytical volume was necessary for chloride to bring results within the analytical range for sample 1265618-1. Detection limits are adjusted accordingly.
- Apr 24, 2018 - The analysis of water sample 1265618-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the February 2017 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 Attn: Coranne Anderson	Project ID: Savary Shores Improvement Project Name: Savary Shores Improvement Project Location: Well # 1 LSD: P.O.: 320730 Proj. Acct. code:	Lot ID: 1265618 Control Number: Date Received: Apr 19, 2018 Date Reported: Apr 24, 2018 Report Number: 2278942
Sampled By: Courtney Robertson Company: Savary Shores Improv.		

Reference Number	1265618-1
Sample Date	April 18, 2018
Sample Time	07:57
Sample Location	
Sample Description	Savary Shores Improvement Well # 1 / 7.0 °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	0.00003	0.00002	0.006	Below MAC
Arsenic	Extractable	mg/L	<0.0001	0.0001	0.010	Below MAC
Barium	Extractable	mg/L	0.0070	0.0001	1	Below MAC
Boron	Extractable	mg/L	0.013	0.002	5	Below MAC
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Below MAC
Chromium	Extractable	mg/L	0.00018	0.00005	0.05	Below MAC
Copper	Extractable	mg/L	<0.0005	0.0005	1.0	Below AO
Lead	Extractable	mg/L	0.00002	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	0.00098	0.00005		
Zinc	Extractable	mg/L	0.0130	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	0.38	0.05		
Routine Water						
pH - Holding Time			Exceeded			
pH	at 25 °C		6.95	0.01	7.0-10.5	Below Range
Electrical Conductivity		µS/cm at 25 °C	214	1		
Calcium	Extractable	mg/L	15	0.01		
Iron	Extractable	mg/L	0.035	0.004	0.3	Below AO
Magnesium	Extractable	mg/L	5.7	0.02		
Manganese	Extractable	mg/L	0.007	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	40	5		
Chloride	Dissolved	mg/L	30.6	0.05	250	Below AO
Fluoride	Dissolved	mg/L	0.03	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	4.61	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1	Below MAC

Analytical Report

Bill To: Aaron Service 4703 Marine Avenue Powell River, BC, Canada V8A 2L2 Attn: Coranne Anderson	Project ID: Savary Shores Improvement Project Name: Savary Shores Improvement Project Location: Well # 1 LSD: P.O.: 320730 Proj. Acct. code:	Lot ID: 1265618 Control Number: Date Received: Apr 19, 2018 Date Reported: Apr 24, 2018 Report Number: 2278942
Sampled By: Courtney Robertson Company: Savary Shores Improv.		

Reference Number	1265618-1
Sample Date	April 18, 2018
Sample Time	07:57
Sample Location	
Sample Description	Savary Shores Improvement Well # 1 / 7.0 °C
Sample Matrix	Drinking Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments	
Routine Water - Continued						
Sulfate (SO ₄)	Dissolved	mg/L	4.6	0.1	500	Below AO
Hardness	as CaCO ₃ (extractable)	mg/L	60	1		
Total Dissolved Solids	Extractable	mg/L	151	1		

Approved by: 
Mathieu Simoneau
Operations Manager

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

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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 21, 2018	Exova Surrey
Alk, pH, EC, Turb in water (BC)	APHA	* Conductivity, 2510 B	Apr 21, 2018	Exova Surrey
Alk, pH, EC, Turb in water (BC)	APHA	* pH - Electrometric Method, 4500-H+ B	Apr 21, 2018	Exova Surrey
Anions by IEC in water (Surrey)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	Apr 19, 2018	Exova Surrey
Metals SemiTrace (Extractable) in water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	Apr 20, 2018	Exova Surrey
Tannin and Lignin in water (surrey)	APHA	* Colorimetric Method, 5550 B	Apr 24, 2018	Exova Surrey
Total and E-Coli - Colilert - DW (Surrey)	APHA	Enzyme Substrate Test, APHA 9223 B	Apr 19, 2018	Exova Surrey
Trace Metals (extractable) in Water (Surrey)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	Apr 20, 2018	Exova Surrey
True Color in water (Surrey)	APHA	* Spectrophotometric - Single Wavelength Method, 2120 C	Apr 19, 2018	Exova Surrey
Turbidity - Water (Surrey)	APHA	* Turbidity - Nephelometric Method, 2130 B	Apr 19, 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:

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- Apr 24, 2018 - The analysis of water sample 1265618-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the February 2017 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.

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Results relate only to samples as submitted.

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