

Report Transmission Cover Page

Bill To: Aaron Service 4703 Marine Avenue Powell River, BC, Canada V8A 2L2	Project ID: Well #1	Lot ID: 1529192
Attn: Coranne Anderson	Project Name: Savary Shores, Improvement District	Control Number:
Sampled By:	Project Location: 2785 Vancouver Blvd.	Date Received: Oct 20, 2021
Company:	LSD:	Date Reported: Oct 25, 2021
	P.O.:	Report Number: 2678058
	Proj. Acct. code:	

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

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

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

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Delivery	Format	Deliverables
Email - Merge Reports	PDF	Test Report

Notes To Clients:

- Oct 21, 2021 - Sample 1529192-1; 7717444: Reduction of analytical volume was necessary for chloride analysis to bring results within the analytical range for sample 1529192-1. Detection limits are adjusted accordingly.
- Oct 25, 2021 - The analysis of water sample 1529192-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the September 2020 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: Well #1	Lot ID: 1529192
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Reference Number	1529192-1
Sample Date	October 19, 2021
Sample Time	10:30
Sample Location	
Sample Description	Well #1 / 5.4 °C
Sample Matrix	Drinking Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Aggregate Organic Constituents					
UV Transmittance	%/cm	98.3	0.1		
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 OG; 2.9 MAC
Antimony	Extractable	mg/L	<0.00002	0.00002	0.006
Arsenic	Extractable	mg/L	0.0001	0.0001	0.010
Barium	Extractable	mg/L	0.015	0.0001	2.0
Boron	Extractable	mg/L	0.016	0.002	5
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.007
Chromium	Extractable	mg/L	0.00013	0.00005	0.05
Copper	Extractable	mg/L	0.0077	0.0005	1 AO; 2 MAC
Lead	Extractable	mg/L	<0.00001	0.00001	0.005
Selenium	Extractable	mg/L	<0.0002	0.0002	0.05
Strontium	Extractable	mg/L	0.13	0.0001	7.0
Uranium	Extractable	mg/L	0.00020	0.00001	0.02
Vanadium	Extractable	mg/L	0.0011	0.00005	
Zinc	Extractable	mg/L	0.0014	0.0005	5.0
Microbiological Analysis					
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
Physical and Aggregate Properties					
Colour	True	Colour units	<5	5	
Turbidity		NTU	0.36	0.1	0.1
Routine Water					
pH - Holding Time			Exceeded		
pH	at 25 °C		7.33	0.01	7.0-10.5
Electrical Conductivity		µS/cm at 25 °C	306	1	
Calcium	Extractable	mg/L	15	0.01	
Iron	Extractable	mg/L	<0.004	0.004	0.3
Magnesium	Extractable	mg/L	6.8	0.02	
Manganese	Extractable	mg/L	<0.001	0.001	0.02 AO; 0.12 MAC
Potassium	Extractable	mg/L	2.0	0.04	
Silicon	Extractable	mg/L	13	0.005	
Sodium	Extractable	mg/L	28	0.1	200
T-Alkalinity	as CaCO3	mg/L	44	5	

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Reference Number	1529192-1
Sample Date	October 19, 2021
Sample Time	10:30
Sample Location	
Sample Description	Well #1 / 5.4 °C
Sample Matrix	Drinking Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments	
Routine Water - Continued						
Chloride	Dissolved	mg/L	51.6	0.05	250	Below AO
Fluoride	Dissolved	mg/L	<0.01	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	2.42	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved	mg/L	8.2	0.1	500	Below AO
Hardness	as CaCO3 (extractable)	mg/L	67	1		
Total Dissolved Solids	Extractable	mg/L	184	1	500	Below AO

Approved by: 

Carol Nam, Dipl. T.
 Quality Assurance Coordinator

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

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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	Oct 21, 2021	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* Conductivity, 2510 B	Oct 21, 2021	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* pH - Electrometric Method, 4500-H+ B	Oct 21, 2021	Element Vancouver
Anions by IEC in water (VAN)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	Oct 20, 2021	Element Vancouver
Metals SemiTrace (Extractable) in water (VAN)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	Oct 20, 2021	Element Vancouver
Tannin and Lignin in water (VAN)	APHA	* Colorimetric Method, 5550 B	Oct 20, 2021	Element Vancouver
Total and E-Coli - Colilert - DW (VAN)	APHA	Enzyme Substrate Test, APHA 9223 B	Oct 20, 2021	Element Vancouver
Trace Metals (extractable) in Water (VAN)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	Oct 20, 2021	Element Vancouver
True Color in water (VAN)	APHA	* Spectrophotometric - Single Wavelength Method, 2120 C	Oct 21, 2021	Element Vancouver
Turbidity - Water (VAN)	APHA	* Turbidity - Nephelometric Method, 2130 B	Oct 21, 2021	Element Vancouver
Ultraviolet Transmittance in Water	APHA	* Ultraviolet Absorption Method, 5910 B	Oct 21, 2021	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 www.hc-sc.gc.ca

Comments:

- Oct 21, 2021 - Sample 1529192-1; 7717444: Reduction of analytical volume was necessary for chloride analysis to bring results within the analytical range for sample 1529192-1. Detection limits are adjusted accordingly.
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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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