

Report Transmission Cover Page

Bill To: Sunshine Coast Regional District 1975 Field Road Sechelt, BC, Canada V0N 3A1	Project ID: Egmont & Ruby Lake Project Name: Surface Water Project Location: LSD: P.O.: 3002896 Proj. Acct. code:	Lot ID: 1471727 Control Number: Date Received: Jan 29, 2021 Date Reported: Feb 4, 2021 Report Number: 2591189
Attn: Accounts Payable Sampled By: Logan G. Company: SCRD		

Contact	Company	Address
Accounts Payable	Sunshine Coast Regional District	1975 Field Road Sechelt, BC V0N 3A1 Phone: (604) 885-6800 Fax: Email: accounts.payable@scrd.ca

Delivery	Format	Deliverables
Email - Single Report	PDF	Invoice

Contact	Company	Address
Codi Abbott	Sunshine Coast Regional District	5920 Mason Road Sechelt, BC V0N 3A8 Phone: (604) 885-6800 Fax: Email: Codi.Abbott@scrd.ca

Delivery	Format	Deliverables
Email - Multiple Reports By Lot	PDF	COC / Test Report
Email - Multiple Reports By Lot	Standard Crosstab without Tabs	Test Report
Email - Single Report	PDF	COA

Contact	Company	Address
Paul Sheridan	Sunshine Coast Regional District	1975 Field Road Sechelt, BC V0N 3A1 Phone: (604) 885-6800 Fax: Email: paul.sheridan@scrd.ca

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

Contact	Company	Address
Sandi Bandara	Sunshine Coast Regional District	1975 Field Road Sechelt, BC V0N 3A1 Phone: (604) 885-6800 Fax: Email: sandi.bandara@scrd.ca

Delivery	Format	Deliverables
Email - Merge Reports	PDF	COC / Test Report
Email - Single Report	PDF	COA
Email - Single Report	Standard Crosstab without Tabs	Test Report

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Analytical Report

Bill To: Sunshine Coast Regional District	Project ID: Egmont & Ruby Lake	Lot ID: 1471727
1975 Field Road	Project Name: Surface Water	Control Number:
Sechelt, BC, Canada	Project Location:	Date Received: Jan 29, 2021
V0N 3A1	LSD:	Date Reported: Feb 4, 2021
Attn: Accounts Payable	P.O.: 3002896	Report Number: 2591189
Sampled By: Logan G.	Proj. Acct. code:	
Company: SCRD		

		Reference Number	1471727-1	1471727-2	1471727-3	
		Sample Date	Jan 27, 2021	Jan 27, 2021	Jan 27, 2021	
		Sample Time	09:00	10:00	09:45	
		Sample Location				
		Sample Description	EG-02 / Egmont Hall / 5.7 °C	RL-Raw / Ruby Lake Raw / 5.7 °C	RL-03 / Jervis Inlet / 5.7 °C	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Phosphorus	Total - Low Level	mg/L	<0.005	<0.005	<0.005	0.005
Metals Total						
Mercury	Total	µg/L	<0.005	<0.005	<0.005	0.005
Aluminum	Total	µg/L	22	8	6	5
Antimony	Total	µg/L	<0.1	<0.1	<0.1	0.1
Arsenic	Total	µg/L	0.34	0.43	0.35	0.05
Barium	Total	µg/L	2.8	2.0	2.9	0.5
Beryllium	Total	µg/L	<0.05	<0.05	<0.05	0.05
Bismuth	Total	µg/L	<0.1	<0.1	<0.1	0.1
Boron	Total	µg/L	4	9	8	2
Cadmium	Total	µg/L	<0.01	<0.01	<0.01	0.01
Calcium	Total	mg/L	4.93	4.24	5.34	0.05
Chromium	Total	µg/L	<0.5	<0.5	<0.5	0.5
Cobalt	Total	µg/L	<0.1	<0.1	<0.1	0.1
Copper	Total	µg/L	2.8	1.9	5.7	0.1
Iron	Total	µg/L	94	17	149	2
Lead	Total	µg/L	0.1	0.2	<0.1	0.1
Lithium	Total	µg/L	<0.5	<0.5	<0.5	0.5
Magnesium	Total	mg/L	0.39	0.71	0.67	0.04
Manganese	Total	µg/L	2.0	1.2	1.6	1.0
Molybdenum	Total	µg/L	0.55	0.57	0.57	0.05
Nickel	Total	µg/L	<0.2	<0.2	<0.2	0.2
Potassium	Total	mg/L	0.2	0.2	0.3	0.1
Selenium	Total	µg/L	<0.1	<0.1	<0.1	0.1
Silicon	Total	mg/L	2.30	1.57	1.60	0.02
Silver	Total	µg/L	<0.05	<0.05	<0.05	0.05
Sodium	Total	mg/L	5.1	2.6	6.6	0.1
Strontium	Total	µg/L	16.0	12.7	14.4	0.1
Sulfur	Total	mg/L	0.49	0.76	0.79	0.02
Thallium	Total	µg/L	<0.01	<0.01	<0.01	0.01
Thorium	Total	µg/L	0.03	<0.01	<0.01	0.01
Tin	Total	µg/L	1.0	<0.1	<0.1	0.1
Titanium	Total	µg/L	<0.5	<0.5	<0.5	0.5
Uranium	Total	µg/L	0.02	0.02	0.01	0.01
Vanadium	Total	µg/L	0.3	0.2	0.1	0.1
Zinc	Total	µg/L	8.6	6.4	8.8	1
Zirconium	Total	µg/L	<0.5	<0.5	<0.5	0.5
Hardness	as CaCO3	mg/L	14	14	16	1

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V0N 3A1	LSD:	Date Reported: Feb 4, 2021
Attn: Accounts Payable	P.O.: 3002896	Report Number: 2591189
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		Sample Date	Jan 27, 2021	Jan 27, 2021	Jan 27, 2021	
		Sample Time	09:00	10:00	09:45	
		Sample Location				
		Sample Description	EG-02 / Egmont Hall / 5.7 °C	RL-Raw / Ruby Lake Raw / 5.7 °C	RL-03 / Jarvis Inlet / 5.7 °C	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Physical and Aggregate Properties						
Colour	True	Colour units	<5	<5	<5	5
Solids	Total Dissolved	mg/L	50	76	66	5
Turbidity		NTU	0.41	0.26	0.42	0.1
Routine Water						
pH			7.09	6.97	7.18	1
Temperature of observed		°C	20.6	20.5	20.4	
pH						
Bicarbonate		mg/L	17	15	18	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
P-Alkalinity	as CaCO ₃	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO ₃	mg/L	14	13	15	5
Bromide	Dissolved	mg/L	<0.02	<0.02	<0.02	0.02
Chloride	Dissolved	mg/L	5.65	2.70	7.95	0.05
Fluoride	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Nitrate - N	Dissolved	mg/L	0.05	<0.01	<0.01	0.01
Nitrite - N	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Sulfate (SO ₄)	Dissolved	mg/L	1.4	2.1	2.2	0.1
Mono-Aromatic Hydrocarbons - Water						
Benzene		µg/L	<0.5	<0.5	<0.5	0.5
Ethylbenzene		µg/L	<0.5	<0.5	<0.5	0.5
Methyl t-Butyl Ether		µg/L	<0.5	<0.5	<0.5	0.5
Styrene		µg/L	<0.5	<0.5	<0.5	0.5
Toluene		µg/L	<0.5	<0.5	<0.5	0.5
Total Xylenes (m,p,o)		µg/L	<0.5	<0.5	<0.5	0.5
4-Bromofluorobenzene	Surrogate	%	100	99.7	97.5	80-120
Dibromofluoromethane	Surrogate	%	103	104	102	80-120
Toluene-d ₈	Surrogate	%	110	106	110	80-120

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V0N 3A1	LSD:	Date Reported: Feb 4, 2021
Attn: Accounts Payable	P.O.: 3002896	Report Number: 2591189
Sampled By: Logan G.	Proj. Acct. code:	
Company: SCRD		

Reference Number 1471727-4
Sample Date Jan 27, 2021
Sample Time 09:30
Sample Location
Sample Description EG-Raw / Waugh
Lake Raw / 5.7 °C

Matrix Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
Inorganic Nonmetallic Parameters					
Phosphorus	Total - Low Level	mg/L	<0.005		0.005
Metals Total					
Mercury	Total	µg/L	<0.005		0.005
Aluminum	Total	µg/L	24		5
Antimony	Total	µg/L	<0.1		0.1
Arsenic	Total	µg/L	0.28		0.05
Barium	Total	µg/L	2.4		0.5
Beryllium	Total	µg/L	<0.05		0.05
Bismuth	Total	µg/L	<0.1		0.1
Boron	Total	µg/L	4		2
Cadmium	Total	µg/L	<0.01		0.01
Calcium	Total	mg/L	3.15		0.05
Chromium	Total	µg/L	<0.5		0.5
Cobalt	Total	µg/L	<0.1		0.1
Copper	Total	µg/L	2.6		0.1
Iron	Total	µg/L	22		2
Lead	Total	µg/L	0.1		0.1
Lithium	Total	µg/L	<0.5		0.5
Magnesium	Total	mg/L	0.42		0.04
Manganese	Total	µg/L	3.3		1.0
Molybdenum	Total	µg/L	0.53		0.05
Nickel	Total	µg/L	<0.2		0.2
Potassium	Total	mg/L	0.1		0.1
Selenium	Total	µg/L	<0.1		0.1
Silicon	Total	mg/L	2.30		0.02
Silver	Total	µg/L	<0.05		0.05
Sodium	Total	mg/L	1.4		0.1
Strontium	Total	µg/L	11.8		0.1
Sulfur	Total	mg/L	0.47		0.02
Thallium	Total	µg/L	<0.01		0.01
Thorium	Total	µg/L	<0.01		0.01
Tin	Total	µg/L	0.2		0.1
Titanium	Total	µg/L	<0.5		0.5
Uranium	Total	µg/L	0.01		0.01
Vanadium	Total	µg/L	0.3		0.1
Zinc	Total	µg/L	5.4		1
Zirconium	Total	µg/L	<0.5		0.5
Hardness	as CaCO ₃	mg/L	10		1

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Sampled By: Logan G.	Proj. Acct. code:	
Company: SCRD		

Reference Number 1471727-4
Sample Date Jan 27, 2021
Sample Time 09:30
Sample Location
Sample Description EG-Raw / Waugh
Lake Raw / 5.7 °C

Matrix Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
Physical and Aggregate Properties					
Colour	True	Colour units	9		5
Solids	Total Dissolved	mg/L	32		5
Turbidity		NTU	0.23		0.1
Routine Water					
pH			6.77		1
Temperature of observed		°C	20.0		
pH					
Bicarbonate		mg/L	<5		5
Carbonate		mg/L	10		6
Hydroxide		mg/L	<5		5
P-Alkalinity	as CaCO ₃	mg/L	<5		5
T-Alkalinity	as CaCO ₃	mg/L	9		5
Bromide	Dissolved	mg/L	<0.02		0.02
Chloride	Dissolved	mg/L	1.04		0.05
Fluoride	Dissolved	mg/L	<0.01		0.01
Nitrate - N	Dissolved	mg/L	0.05		0.01
Nitrite - N	Dissolved	mg/L	<0.01		0.01
Sulfate (SO ₄)	Dissolved	mg/L	1.3		0.1
Mono-Aromatic Hydrocarbons - Water					
Benzene		µg/L	<0.5		0.5
Ethylbenzene		µg/L	<0.5		0.5
Methyl t-Butyl Ether		µg/L	<0.5		0.5
Styrene		µg/L	<0.5		0.5
Toluene		µg/L	<0.5		0.5
Total Xylenes (m,p,o)		µg/L	<0.5		0.5
4-Bromofluorobenzene	Surrogate	%	99.7		80-120
Dibromofluoromethane	Surrogate	%	103		80-120
Toluene-d8	Surrogate	%	106		80-120

Approved by:



Max Hewitt
Operations Manager

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

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Methodology and Notes

Bill To: Sunshine Coast Regional District 1975 Field Road Sechelt, BC, Canada V0N 3A1	Project ID: Egmont & Ruby Lake Project Name: Surface Water Project Location: LSD: P.O.: 3002896 Proj. Acct. code:	Lot ID: 1471727 Control Number: Date Received: Jan 29, 2021 Date Reported: Feb 4, 2021 Report Number: 2591189
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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	Jan 29, 2021	Element Vancouver
Alkalinity, pH, and EC in water	APHA	* pH - Electrometric Method, 4500-H+ B	Feb 2, 2021	Element Edmonton - Roper Road
Anions by IEC in water (VAN)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	Jan 29, 2021	Element Vancouver
Anions by IEC in water (VAN)	APHA	* Single-Column Ion Chromatography with Electronic Suppression, 4110 C	Jan 29, 2021	Element Vancouver
BC ICP-MS Total Metals in Water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	Feb 1, 2021	Element Edmonton - Roper Road
BC Trace Total Metals in Water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	Feb 1, 2021	Element Edmonton - Roper Road
BC Trace Total Metals in Water	US EPA	* Metals & Trace Elements by ICP-MS, 6020	Feb 1, 2021	Element Edmonton - Roper Road
BTEX-VPH - Water (MS) (VAN)	BCELM	* Volatile Hydrocarbons in Water by GC/FID, VH Water	Jan 29, 2021	Element Vancouver
Phosphorus - Total in Water	APHA	* Automated Ascorbic Acid Reduction Method, 4500-P F	Feb 1, 2021	Element Edmonton - Roper Road
Solids Dissolved (Total, Fixed and Volatile) - VAN	APHA	* Total Dissolved Solids Dried at 180 C, 2540 C	Feb 1, 2021	Element Vancouver
True Color in water (VAN)	APHA	* Spectrophotometric - Single Wavelength Method, 2120 C	Jan 29, 2021	Element Vancouver
Turbidity - Water (VAN)	APHA	* Turbidity - Nephelometric Method, 2130 B	Jan 29, 2021	Element Vancouver

* Reference Method Modified

References

APHA	Standard Methods for the Examination of Water and Wastewater
BCELM	B.C. Environmental Laboratory Manual
US EPA	US Environmental Protection Agency Test Methods

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