

Report Transmission Cover Page

Bill To: Gillies Bay Improvement District	Project ID:	Lot ID: 1391610
PO Box 102	Project Name: Raw Water Baseline	Control Number: C0030760
Gillies Bay, BC, Canada	Project Location: Gillies Bay	Date Received: Nov 15, 2019
V0N 1W0	LSD: 4600 Gillies Bay Rd.	Date Reported: Nov 21, 2019
Attn: Accounts Payable	P.O.:	Report Number: 2465916
Sampled By: Ken Taylor	Proj. Acct. code:	
Company: G.B.I.D.		

Contact	Company	Address
Bridget Andrews	Gillies Bay Improvement District	PO Box 212 Gillies Bay, BC V0N 1W0 Phone: (604) 414-3703 Fax: Email: admin@gillies-bay.ca

<u>Delivery</u>	<u>Format</u>	<u>Deliverables</u>
Email - Merge Reports	PDF	COC / Test Report
Email - Single Report	PDF	COA
Email - Single Report	PDF	Invoice

Ken Taylor	Gillies Bay Improvement District	PO Box 237 Gillies Bay, BC V0N 1W0 Phone: (604) 414-3703 Fax: Email: water@gillies-bay.ca
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<u>Delivery</u>	<u>Format</u>	<u>Deliverables</u>
Email - Merge Reports	PDF	COC / Test Report
Email - Single Report	PDF	COA

Notes To Clients:

- Nov 18, 2019 - Analysis was performed on sample 1391610-1 that exceeded the recommended holding time for turbidity analysis.

Analytical Report

Bill To: Gillies Bay Improvement District	Project ID:	Lot ID: 1391610
PO Box 102	Project Name: Raw Water Baseline	Control Number: C0030760
Gillies Bay, BC, Canada	Project Location: Gillies Bay	Date Received: Nov 15, 2019
V0N 1W0	LSD: 4600 Gillies Bay Rd.	Date Reported: Nov 21, 2019
Attn: Accounts Payable	P.O.:	Report Number: 2465916
Sampled By: Ken Taylor	Proj. Acct. code:	
Company: G.B.I.D.		

Reference Number	1391610-1
Sample Date	November 13, 2019
Sample Time	08:30
Sample Location	
Sample Description	Raw Water / Annual Base Line / 15.9 °C
Sample Matrix	Drinking Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Inorganic Nonmetallic Parameters					
Organic Carbon	Total Nonpurgeable	mg/L	6.9	0.5	
Metals Extractable					
Aluminum	Extractable	mg/L	0.003	0.001	0.1 Below OG
Antimony	Extractable	mg/L	<0.00002	0.00002	0.006 Below MAC
Arsenic	Extractable	mg/L	0.0002	0.0001	0.010 Below MAC
Barium	Extractable	mg/L	0.0032	0.0001	1 Below MAC
Boron	Extractable	mg/L	0.004	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	0.0021	0.0005	1 AO; 2 MAC Below AO
Lead	Extractable	mg/L	0.00009	0.00001	0.005 Below MAC
Selenium	Extractable	mg/L	<0.0002	0.0002	0.05 Below MAC
Strontium	Extractable	mg/L	0.0528	0.0001	7.0 Below MAC
Uranium	Extractable	mg/L	<0.00001	0.00001	0.02 Below MAC
Vanadium	Extractable	mg/L	<0.00005	0.00005	
Zinc	Extractable	mg/L	0.0063	0.0005	5.0 Below AO
Metals Total					
Mercury	Total	mg/L	<0.00001	0.00005	0.001 Below MAC
Physical and Aggregate Properties					
Colour	True	Colour units	12	5	
Turbidity		NTU	0.98	0.1	0.1 Above AO
Routine Water					
pH - Holding Time			Exceeded		
pH	at 25 °C		7.47	0.01	7.0-10.5 Within Range
Electrical Conductivity		µS/cm at 25 °C	121	1	
Calcium	Extractable	mg/L	16	0.01	
Iron	Extractable	mg/L	0.047	0.004	0.3 Below AO
Magnesium	Extractable	mg/L	1.8	0.02	
Manganese	Extractable	mg/L	0.002	0.001	0.02 AO; 0.12 MAC Below AO
Potassium	Extractable	mg/L	0.28	0.04	
Silicon	Extractable	mg/L	1.3	0.005	
Sodium	Extractable	mg/L	3.7	0.1	200 Below AO
T-Alkalinity	as CaCO3	mg/L	47	5	
Chloride	Dissolved	mg/L	4.68	0.05	250 Below AO
Fluoride	Dissolved	mg/L	<0.01	0.01	1.5 Below MAC
Nitrate - N	Dissolved	mg/L	<0.01	0.01	10 Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1 Below MAC
Sulfate (SO4)	Dissolved	mg/L	2.5	0.1	500 Below AO

Analytical Report

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V0N 1W0	LSD: 4600 Gillies Bay Rd.	Date Reported: Nov 21, 2019
Attn: Accounts Payable	P.O.:	Report Number: 2465916
Sampled By: Ken Taylor	Proj. Acct. code:	
Company: G.B.I.D.		

Reference Number	1391610-1
Sample Date	November 13, 2019
Sample Time	08:30
Sample Location	
Sample Description	Raw Water / Annual Base Line / 15.9 °C
Sample Matrix	Drinking Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Routine Water - Continued					
Hardness	as CaCO ₃ (extractable)	mg/L	48	1	
Total Dissolved Solids	Extractable	mg/L	61	1	

Approved by:



Matthew Norman, BSc, PChem
Operations Chemist

Data have been validated by Analytical Quality Control and Element'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: Gillies Bay Improvement District	Project ID:	Lot ID: 1391610
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V0N 1W0	LSD: 4600 Gillies Bay Rd.	Date Reported: Nov 21, 2019
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Sampled By: Ken Taylor	Proj. Acct. code:	
Company: G.B.I.D.		

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (BC)	APHA	* Alkalinity - Titration Method, 2320 B	Nov 16, 2019	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* Conductivity, 2510 B	Nov 16, 2019	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* pH - Electrometric Method, 4500-H+ B	Nov 16, 2019	Element Vancouver
Anions by IEC in water (VAN)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	Nov 15, 2019	Element Vancouver
Carbon Organic (Total) in water (TOC)	APHA	High-Temperature Combustion Method, 5310 B	Nov 18, 2019	Element Edmonton - Roper Road
Mercury Low Level (Total) in water (VAN)	EPA	* Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	Nov 19, 2019	Element Vancouver
Metals SemiTrace (Extractable) in water (VAN)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	Nov 18, 2019	Element Vancouver
Trace Metals (extractable) in Water (VAN)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	Nov 18, 2019	Element Vancouver
True Color in water (VAN)	APHA	* Spectrophotometric - Single Wavelength Method, 2120 C	Nov 15, 2019	Element Vancouver
Turbidity - Water (VAN)	APHA	* Turbidity - Nephelometric Method, 2130 B	Nov 18, 2019	Element Vancouver

* Reference Method Modified

References

APHA	Standard Methods for the Examination of Water and Wastewater
EPA	Environmental Protection Agency Test Methods - US
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:

- Nov 18, 2019 - Analysis was performed on sample 1391610-1 that exceeded the recommended holding time for turbidity analysis.

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.



Project Information

Project ID: _____

Project Name: RAW WATER BASE LINE

Project Location: GILLIES BAY

Legal Location: 4600 GILLIES BAY RD.

PO/AFE#: _____

Proj. Acct. Code: _____

Quote # _____

Invoice to:

Company: GILLIES BAY IMP DIST
Address: 5073 GILLIES BAY RD
BC VON 1W0
Attention: CAROL ROBERTS
Phone: 604-486-7757
Cell: _____
Fax: _____
E-mail: ACCOUNTING@Gillies-Bay.C
Agreement ID: _____
Copy of report: _____

Report To:

Company: GILLIES BAY IMP DIST
Address: 5073 GILLIES BAY RD
B.C. VON 1W0
Attention: KEN TAYLOR
Phone: 604-414-3703
Cell:
Fax:
E-mail 1: WATER@GILLIES-BAY.CA
E-mail 2: MOWEN@GILLIES-BAY.CA
Copy of invoice:

Report Results

E-Mail	<input checked="" type="checkbox"/>	HCDWQG	
Mail	<input type="checkbox"/>	Ab Tier 1	
Online	<input type="checkbox"/>	SPIGEC	
Fax	<input type="checkbox"/>	BCCSR	
PDF	<input checked="" type="checkbox"/>	Other (list below)	
Excel	<input type="checkbox"/>		
QA/QC	<input type="checkbox"/>		

Regulatory Requirement

Sample Custody (please print)

Sampled by: *KEN TAYLOR*

Company: G.R.I.D.

This section for Lab use only

Date/Time stamp:

157 12:29

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).

Number of Containers

W99
MERCURY
TOC

Enter tests above
(✓ relevant samples below)

Indicate in the space allotted any deficiencies by the corresponding number.

	Site I.D.	Sample Description	Depth start end in cm m		Date/Time Sampled	Matrix	Sampling Method	↓	Enter tests above (√ relevant samples below)										Indicate in the space allotted any deficiencies by the corresponding number.	
1	RAW WATER	ANNUAL BASE LINE			2019/11/13 8:30AM				1	1	2								1. Indicate any samples that were not packaged well	
2																				
3																			2. Indicate any samples not received in Exova supplies	
4																				
5																			3. Indicate any samples that were not clearly labeled	
6																				
7																			4. Indicate any samples not received within the required hold time or temp.	
8																				
9																			5. Indicate any missing or extra samples	
10																				
11																			6. Indicate any samples that were received broken	
12																				
13																			7. Indicate any samples where sufficient volume was not received	
14																				
15																			8. Indicate any samples	

Submission of this form acknowledges acceptance of Exova's Standard Terms and Conditions (<http://www.exova.com/about/terms-and-conditions/>)

Please indicate any potentially hazardous samples

Page _____ of _____

Control # C 0030760

Lot: 1391610 ^{COC}



Shipping:	COD	Y/	N
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and size of coolers

Temp. received:

Received by: 15.9°C

Delivery Method:

Waybill:

Received by: