

Analytical Report

Bill To: Gillies Bay Improvement District PO Box 102 Gillies Bay, BC, Canada V0N 1W0	Project ID: Project Name: GBID Project Location: W99 LSD: Gillies Bay P.O.:	Lot ID: 1635655 Control Number: Date Received: Mar 2, 2023 Date Reported: Mar 8, 2023 Report Number: 2848621
Attn: Theresa Beech Sampled By: George Kapetanakis Company: GBID	Proj. Acct. code:	

Reference Number	1635655-1
Sample Date	February 28, 2023
Sample Time	08:00
Sample Location	
Sample Description	Raw Water / 7.1 °C
Sample Matrix	Drinking Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Inorganic Nonmetallic Parameters					
Organic Carbon	Total Nonpurgeable	mg/L	7.5	0.5	
Metals Extractable					
Aluminum	Extractable	mg/L	0.015	0.001	0.1 OG; 2.9 MAC Below OG
Antimony	Extractable	mg/L	0.00005	0.00002	0.006 Below MAC
Arsenic	Extractable	mg/L	0.0002	0.0001	0.010 Below MAC
Barium	Extractable	mg/L	0.0031	0.0001	2.0 Below MAC
Boron	Extractable	mg/L	0.006	0.002	5 Below MAC
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.007 Below MAC
Chromium	Extractable	mg/L	0.00011	0.00005	0.05 Below MAC
Copper	Extractable	mg/L	0.0022	0.0005	1 AO; 2 MAC Below AO
Lead	Extractable	mg/L	0.00011	0.00001	0.005 Below MAC
Selenium	Extractable	mg/L	<0.0002	0.0002	0.05 Below MAC
Strontium	Extractable	mg/L	0.045	0.0001	7.0 Below MAC
Uranium	Extractable	mg/L	0.00001	0.00001	0.02 Below MAC
Vanadium	Extractable	mg/L	0.00008	0.00005	
Zinc	Extractable	mg/L	0.0034	0.0005	5.0 Below AO
Metals Total					
Mercury	Total	mg/L	<0.00001	0.00001	0.001 Below MAC
Physical and Aggregate Properties					
Colour	True	Colour units	19	5	
Turbidity		NTU	0.41	0.1	0.1/0.3/1.0 OG
Routine Water					
pH - Holding Time			Exceeded		
pH	at 25 °C		7.40	0.01	7.0-10.5 Within Range
Electrical Conductivity		µS/cm at 25 °C	118	1	
Calcium	Extractable	mg/L	17	0.01	
Iron	Extractable	mg/L	0.068	0.004	0.3 Below AO
Magnesium	Extractable	mg/L	1.8	0.02	
Manganese	Extractable	mg/L	0.001	0.001	0.02 AO; 0.12 MAC Below AO
Potassium	Extractable	mg/L	0.56	0.04	
Silicon	Extractable	mg/L	0.76	0.005	
Sodium	Extractable	mg/L	3.9	0.1	200 Below AO
T-Alkalinity	as CaCO3	mg/L	45	5	
Chloride	Dissolved	mg/L	5.78	0.05	250 Below AO
Fluoride	Dissolved	mg/L	0.03	0.01	1.5 Below MAC
Nitrate - N	Dissolved	mg/L	0.13	0.01	10 Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1 Below MAC
Sulfate (SO4)	Dissolved	mg/L	3.1	0.1	500 Below AO

Analytical Report

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PO Box 102	Project Name: GBID	Control Number:
Gillies Bay, BC, Canada	Project Location: W99	Date Received: Mar 2, 2023
V0N 1W0	LSD: Gillies Bay	Date Reported: Mar 8, 2023
Attn: Theresa Beech	P.O.:	Report Number: 2848621
Sampled By: George Kapetanakis	Proj. Acct. code:	
Company: GBID		

Reference Number	1635655-1
Sample Date	February 28, 2023
Sample Time	08:00
Sample Location	
Sample Description	Raw Water / 7.1 °C
Sample Matrix	Drinking Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Routine Water - Continued					
Hardness	as CaCO3 (extractable)	mg/L	49	1	
Total Dissolved Solids	Extractable	mg/L	62	1	500 Below AO

Approved by: 
 Max Hewitt
 Operations Manager

Methodology and Notes

Bill To: Gillies Bay Improvement District PO Box 102 Gillies Bay, BC, Canada V0N 1W0	Project ID: Project Name: GBID Project Location: W99 LSD: Gillies Bay P.O.:	Lot ID: 1635655 Control Number: Date Received: Mar 2, 2023 Date Reported: Mar 8, 2023 Report Number: 2848621
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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	Mar 2, 2023	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* Conductivity, 2510 B	Mar 2, 2023	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* pH - Electrometric Method, 4500-H+ B	Mar 2, 2023	Element Vancouver
Anions by IEC in water (VAN)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	Mar 2, 2023	Element Vancouver
Carbon Organic (Total) in water (TOC)	APHA	High-Temperature Combustion Method, 5310 B	Mar 3, 2023	Element Edmonton - Roper Road
Mercury Low Level (Total) in water (VAN)	EPA	* Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	Mar 8, 2023	Element Vancouver
Metals SemiTrace (Extractable) in water (VAN)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	Mar 3, 2023	Element Vancouver
Trace Metals (extractable) in Water (VAN)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	Mar 3, 2023	Element Vancouver
True Color in water (VAN)	APHA	* Spectrophotometric - Single Wavelength Method, 2120 C	Mar 2, 2023	Element Vancouver
Turbidity - Water (VAN)	APHA	* Turbidity - Nephelometric Method, 2130 B	Mar 2, 2023	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, 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

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.

Kapetanakis



Project Information

Project ID: GBID
 Project Name: W99
 Project Location: Gillies Bay
 Legal Location: _____
 PO/AFE#: _____
 Proj. Acct. Code: _____
 Quote #: _____

Invoice To
 Company: Gillies Bay Improvement District
 Address: P.O. Box 102
Gillies Bay, B.C.
 Attention: VON IWO
 Phone: Theresa Beech
 Cell: 604 223 7757 cell
 Fax: _____
 E-mail: admin@gillies-bay.ca
 Agreement ID: _____
 Copy of Report: YES / NO

Report To
 Company: GBID
 Address: P.O. Box 102
Gillies Bay, BC
 Attention: VON IWO
 Phone: Theresa Beech
 Cell: 604 223 7757
 Fax: _____
 E-mail 1: admin@gillies-bay.ca
 E-mail 2: _____
 Copy of Invoice: YES / NO

Additional Reports to
 1) Name: George Kapetanakis
 E-mail: water@gillies-bay.ca
 2) Name: _____
 E-mail: 604 208 3965
Sample Custody
 Sampled by: George Kapetanakis
 Company: GBID
 I authorize Element to proceed with the work indicated on this form:
 Signature: George Kapetanakis
 Date/Time: Feb. 28, 2023 8AM

RUSH Priority

- Same Day (200%)
- Next Day/Two Day (100%)
- Three or Four Days (50%)
- 5 to 7 Days (Regular TAT)

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.

Report Results

- Email QA/QC
- Online PDF
- Fax Excel

Requirements

- HCDWORG SPIGEC
- AB Tier 1 BCCSR
- Other (list below)

Date Required _____

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

Site I.D.	Sample Description	Depth start end in cm m	Date/Time sampled	Matrix	Sampling method	#	MeOH Field Preserved?	Enter tests above (✓ relevant samples below)												
								Organics	Total Metals	Mercury										
1	Raw Water		8AM Feb 28			1	✓	1	1	1										
2	Raw Water		8AM Feb 28			1	✓	1	1	1										
3	Raw Water		8AM Feb 28			1	✓	1	1	1										
4	Raw Water		8AM Feb 28			1	✓	1	1	1										
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Please indicate any potentially hazardous samples
 Submission of this form acknowledges acceptance of Element's Standard of terms and conditions (<https://www.element.com/terms/terms-and-conditions>)

Page 1 of 1 Control # _____
 ED 120-005

Lot: 1635655 COC

Temp. received: 7.1°C Date/Time stamp: _____
 Delivery Method: TRUCK
 Waybill: _____
 Received by: CAP