

**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: <b>1781641</b> Control Number: Date Received: Dec 4, 2024 Date Reported: Dec 10, 2024 Report Number: 3086484 Report Type: Final Report
Attn: Theresa Beech Sampled By: George Kapetanakis Company: GBID	Proj. Acct. code:	

**Reference Number** 1781641-1  
**Sample Date** December 03, 2024  
**Sample Time** NA  
**Sample Location**  
**Sample Description** GBID / 1.6 °C  
**Sample Matrix** Water

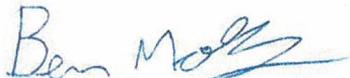
Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
<b>Inorganic Nonmetallic Parameters</b>					
Organic Carbon	Total Nonpurgeable	mg/L	8.3	0.5	
<b>Metals Extractable</b>					
Aluminum	Extractable	mg/L	0.010	0.001	0.1 OG; 2.9 MAC
Antimony	Extractable	mg/L	0.00003	0.00002	0.006
Arsenic	Extractable	mg/L	0.0003	0.0001	0.010
Barium	Extractable	mg/L	0.0032	0.0001	2.0
Boron	Extractable	mg/L	0.011	0.002	5
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.007
Chromium	Extractable	mg/L	0.00007	0.00005	0.05
Copper	Extractable	mg/L	0.0038	0.0005	1 AO; 2 MAC
Lead	Extractable	mg/L	0.00005	0.00001	0.005
Selenium	Extractable	mg/L	<0.0002	0.0002	0.05
Strontium	Extractable	mg/L	0.048	0.0001	7.0
Uranium	Extractable	mg/L	<0.00001	0.00001	0.02
Vanadium	Extractable	mg/L	<0.00005	0.00005	
Zinc	Extractable	mg/L	0.0053	0.0005	5.0
<b>Metals Total</b>					
Mercury	Total	mg/L	<0.00001	0.00001	0.001
<b>Physical and Aggregate Properties</b>					
Colour	True	Colour units	11	5	
Turbidity		NTU	0.41	0.1	0.1/0.3/1.0 OG
<b>Routine Water</b>					
pH			7.24	0.01	7.0-10.5
pH - Holding Time			Exceeded		
Temp. of observed pH		°C	25.0		
Electrical Conductivity	at 25 °C	µS/cm	122	1	
Calcium	Extractable	mg/L	16	0.01	
Iron	Extractable	mg/L	0.061	0.004	0.3
Magnesium	Extractable	mg/L	1.8	0.02	
Manganese	Extractable	mg/L	0.001	0.001	0.02 AO; 0.12 MAC
Potassium	Extractable	mg/L	0.35	0.04	
Silicon	Extractable	mg/L	1.8	0.005	
Sodium	Extractable	mg/L	4.0	0.1	200
T-Alkalinity	as CaCO3	mg/L	47	5	
Chloride	Dissolved	mg/L	6.53	0.05	250
Fluoride	Dissolved	mg/L	0.02	0.01	1.5
Nitrate - N	Dissolved	mg/L	0.08	0.01	10
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1

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<b>Sample Matrix</b>	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments	
<b>Routine Water - Continued</b>						
Sulfate (SO4)	Dissolved	mg/L	3.0	0.1	500	Below AO
Hardness	as CaCO3 (extractable)	mg/L	47	1		
Total Dissolved Solids	Extractable	mg/L	65	1	500	Below AO

Approved by:   
 Benjamin Morris, B.Sc  
 Operations Manager

## 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	Dec 06, 2024	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* Conductivity, 2510 B	Dec 06, 2024	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* pH - Electrometric Method, 4500-H+ B	Dec 06, 2024	Element Vancouver
Anions by IEC in water (VAN)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	Dec 05, 2024	Element Vancouver
Carbon Organic (Total) in water (TOC)	APHA	High-Temperature Combustion Method, 5310 B	Dec 06, 2024	Element Edmonton - Roper Road
Mercury Low Level (Total) in water (VAN)	EPA	* Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	Dec 06, 2024	Element Vancouver
Metals SemiTrace (Extractable) in water (VAN)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	Dec 09, 2024	Element Vancouver
Trace Metals (extractable) in Water (VAN)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	Dec 05, 2024	Element Vancouver
True Color in water (VAN)	APHA	* Spectrophotometric - Single Wavelength Method, 2120 C	Dec 05, 2024	Element Vancouver
Turbidity - Water (VAN)	APHA	* Turbidity - Nephelometric Method, 2130 B	Dec 04, 2024	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, August 2024
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 <a href="http://www.hc-sc.gc.ca">www.hc-sc.gc.ca</a>

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.