



CERTIFICATE OF ANALYSIS

REPORTED TO	Interior Health Authority - Penticton 3090 Skaha Lake Rd Penticton, BC V2A 7H2	WORK ORDER	26B0649
ATTENTION	Ivor Norlin	RECEIVED / TEMP REPORTED	2026-02-05 10:00 / 7.8°C 2026-02-12 14:40
PO NUMBER		COC NUMBER	No Number
PROJECT	Comprehensive 2026 for Ivor Norlin		
PROJECT INFO			

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here: <https://www.caro.ca/terms-conditions>

If you have any questions or concerns, please contact me at bwhitehead@caro.ca

Authorized By:

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TEST RESULTS

REPORTED TO PROJECT Interior Health Authority - Penticton
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WORK ORDER REPORTED 26B0649
2026-02-12 14:40

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
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0210657; Pumphouse (26B0649-01) | Matrix: Water | Sampled: 2026-02-03 10:25

Anions

Chloride	0.29	AO ≤ 250	0.10 mg/L	2026-02-05	
Fluoride	< 0.10	MAC = 1.5	0.10 mg/L	2026-02-05	
Nitrate (as N)	< 0.010	MAC = 10	0.010 mg/L	2026-02-05	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2026-02-05	
Sulfate	3.4	AO ≤ 500	1.0 mg/L	2026-02-05	

Calculated Parameters

Hardness, Total (as CaCO3)	17.6	None Required	0.500 mg/L	N/A	
Langelier Index	-2.4	N/A	-5.0	2026-02-12	CT6
Solids, Total Dissolved	29.4	AO ≤ 500	1.00 mg/L	N/A	

General Parameters

Alkalinity, Total (as CaCO3)	24.6	N/A	1.0 mg/L	2026-02-06	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0 mg/L	2026-02-06	
Alkalinity, Bicarbonate (as CaCO3)	24.6	N/A	1.0 mg/L	2026-02-06	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0 mg/L	2026-02-06	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0 mg/L	2026-02-06	
Colour, True	18	AO ≤ 15	5.0 CU	2026-02-07	HT1
Conductivity (EC)	52.4	N/A	2.0 µS/cm	2026-02-06	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020 mg/L	2026-02-10	
pH	7.03	7.0-10.5	0.10 pH units	2026-02-06	HT2
Temperature, at pH	20.4	N/A	°C	2026-02-06	HT2
Turbidity	1.44	OG < 1	0.10 NTU	2026-02-06	

Total Metals

Aluminum, total	0.181	OG < 0.1	0.0050 mg/L	2026-02-11	
Antimony, total	< 0.00020	MAC = 0.006	0.00020 mg/L	2026-02-11	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050 mg/L	2026-02-11	
Barium, total	< 0.0050	MAC = 2	0.0050 mg/L	2026-02-11	
Boron, total	< 0.0500	MAC = 5	0.0500 mg/L	2026-02-11	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010 mg/L	2026-02-11	
Calcium, total	5.57	None Required	0.20 mg/L	2026-02-11	
Chromium, total	< 0.00050	MAC = 0.05	0.00050 mg/L	2026-02-11	
Cobalt, total	< 0.00010	N/A	0.00010 mg/L	2026-02-11	
Copper, total	0.00291	MAC = 2	0.00040 mg/L	2026-02-11	
Iron, total	0.152	AO ≤ 0.1	0.010 mg/L	2026-02-11	
Lead, total	0.00027	MAC = 0.005	0.00020 mg/L	2026-02-11	
Magnesium, total	0.898	None Required	0.010 mg/L	2026-02-11	
Manganese, total	0.00184	MAC = 0.12	0.00020 mg/L	2026-02-11	
Mercury, total	< 0.000010	MAC = 0.001	0.000010 mg/L	2026-02-10	
Molybdenum, total	0.00051	N/A	0.00010 mg/L	2026-02-11	
Nickel, total	< 0.00040	N/A	0.00040 mg/L	2026-02-11	
Potassium, total	0.83	N/A	0.10 mg/L	2026-02-11	
Selenium, total	< 0.00050	MAC = 0.05	0.00050 mg/L	2026-02-11	



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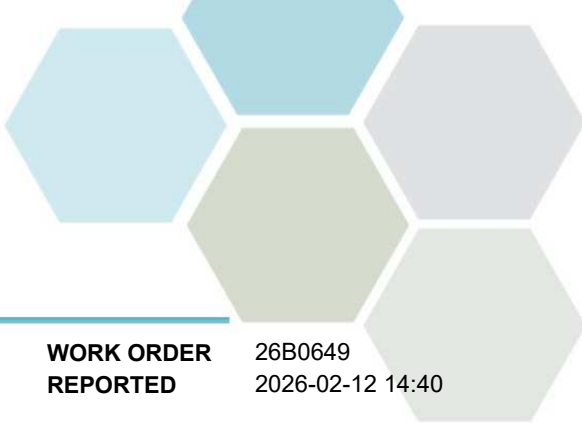
0210657; Pumphouse (26B0649-01) | Matrix: Water | Sampled: 2026-02-03 10:25, Continued

Total Metals, Continued

Sodium, total	3.35	AO ≤ 200	0.10	mg/L	2026-02-11	
Strontium, total	0.0895	MAC = 7	0.0010	mg/L	2026-02-11	
Uranium, total	0.000727	MAC = 0.02	0.000020	mg/L	2026-02-11	
Zinc, total	0.0078	AO ≤ 5	0.0040	mg/L	2026-02-11	

Sample Qualifiers:

- CT6 Results were based on lab temperature & lab pH.
- HT1 The sample was prepared and/or analyzed past the recommended holding time.
- HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Interior Health Authority - Penticon
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Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H2SO4	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Colour, True in Water	SM 2120 C (2021)	Spectrophotometry (456 nm)	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Kelowna
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	✓	Kelowna
Hardness in Water	SM 2340 B* (2021)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	✓	N/A
Langelier Index in Water	SM 2330 B (2021)	Calculation		N/A
Mercury, total in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna
Solids, Total Dissolved in Water	SM 1030 E (2021)	SM 1030 E		N/A
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Turbidity in Water	SM 2130 B (2020)	Nephelometry	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the method has been modified from the reference method

Glossary of Terms:

RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
°C	Degrees Celcius
AO	Aesthetic Objective
CU	Colour Units (referenced against a platinum cobalt standard)
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
NTU	Nephelometric Turbidity Units
OG	Operational Guideline (treated water)
pH units	pH < 7 = acidic, pH > 7 = basic
µS/cm	Microsiemens per centimetre
ASTM	ASTM International Test Methods
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association



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General Comments:

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