



2114050

#### **CERTIFICATE OF ANALYSIS**

REPORTED TO Dan Gare Drilling

Box 722

Armstrong, BC V0E 1B0

**ATTENTION** Dan Gare

**PO NUMBER** 

2021-09-30 09:29 / 9.8°C **RECEIVED / TEMP REPORTED** 2021-11-12 09:58 **PROJECT Analytical Testing** 

No Number **PROJECT INFO COC NUMBER** 

#### 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

We've Got Chemistry

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

Ahead of the Curve

**WORK ORDER** 

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



This is a revised report; please refer to Appendix 3 for details.

decisions

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

(whew) is VERY important. We know that too.

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

#### Authorized By:

Team CARO Client Service Representative



REPORTED TO PROJECT	Dan Gare Drilling Analytical Testing				WORK ORDER REPORTED	21I4050 2021-11-1	2 09:58
Analyte		Result	Guideline	RL	Units	Analyzed	Qualifier
62187 (2114050-01	l)   Matrix: Water   Samp	oled: 2021-09-29 1	3:30				
Anions							
Chloride		32.3	AO ≤ 250	0.10	mg/L	2021-09-30	
Fluoride		4.17	MAC = 1.5		mg/L	2021-09-30	
Nitrate (as N)		< 0.010	MAC = 10	0.010		2021-09-30	
Nitrite (as N)		< 0.010	MAC = 1	0.010	mg/L	2021-09-30	
Sulfate		18.1	AO ≤ 500		mg/L	2021-09-30	
Calculated Parame	ters						
Hardness, Total (a	s CaCO3)	55.0	None Required	0.500	mg/L	N/A	
Langelier Index	/	0.7	N/A	-5.0		2021-10-07	
Solids, Total Disso	lved	282	AO ≤ 500		mg/L	N/A	
General Parameters							
Alkalinity, Total (as	CaCO3)	195	N/A	1.0	mg/L	2021-10-03	
	hthalein (as CaCO3)	7.8	N/A		mg/L	2021-10-03	
Alkalinity, Bicarbor	· · · · · · · · · · · · · · · · · · ·	180	N/A		mg/L	2021-10-03	
Alkalinity, Carbona	· · · · · · · · · · · · · · · · · · ·	15.7	N/A		mg/L	2021-10-03	
Alkalinity, Hydroxid	· · · · · · · · · · · · · · · · · · ·	< 1.0	N/A		mg/L	2021-10-03	
Colour, True	( ( )	< 5.0	AO ≤ 15		CU	2021-10-01	
Conductivity (EC)		477	N/A		μS/cm	2021-10-03	
Cyanide, Total		< 0.0020	MAC = 0.2	0.0020	· · · · · · · · · · · · · · · · · · ·	2021-10-02	
pH		8.60	7.0-10.5		pH units	2021-10-03	HT2
Temperature, at pl	1	22.1	N/A		°C	2021-10-03	HT2
Turbidity		4.81	OG < 1	0.10	NTU	2021-10-02	
Microbiological Par	rameters						
Coliforms, Total		< 1	MAC = 0	1	CFU/100 mL	2021-09-30	
E. coli		< 1	MAC = 0	1	CFU/100 mL	2021-09-30	
Total Metals							
Aluminum, total		0.172	OG < 0.1	0.0050	mg/L	2021-10-06	
Antimony, total		0.00037	MAC = 0.006	0.00020	mg/L	2021-10-06	
Arsenic, total		0.00158	MAC = 0.01	0.00050		2021-10-06	
Barium, total		0.108	MAC = 2	0.0050		2021-10-06	
Boron, total		< 0.0500	MAC = 5	0.0500	mg/L	2021-10-06	
Cadmium, total		0.000014	MAC = 0.005	0.000010	mg/L	2021-10-06	
Calcium, total		17.2	None Required	0.20	mg/L	2021-10-06	
Chromium, total		0.00148	MAC = 0.05	0.00050	mg/L	2021-10-06	
Cobalt, total		0.00016	N/A	0.00010	mg/L	2021-10-06	
Copper, total		0.00141	MAC = 2	0.00040	mg/L	2021-10-06	
Iron, total		0.377	AO ≤ 0.3	0.010	mg/L	2021-10-06	
Lead, total		0.00043	MAC = 0.005	0.00020	mg/L	2021-10-06	
Magnesium, total		2.92	None Required	0.010	mg/L	2021-10-06	
Manganese, total		0.0114	MAC = 0.12	0.00020	mg/L	2021-10-06	
Mercury, total		< 0.000010	MAC = 0.001	0.000010	mg/L	2021-10-07	



REPORTED TO Dan Gare Drilling PROJECT Analytical Testing					WORK ORDER REPORTED	21I4050 2021-11-1	12 09:58
Analyte		Result	Guideline	RL	Units	Analyzed	Qualifier
62187 (2114050-01)	Matrix: Water   Samp	led: 2021-09-29 1	3:30, Continued				
Total Metals, Contin	ued						
Molybdenum, total		0.0248	N/A	0.00010	mg/L	2021-10-06	
Nickel, total		0.00042	N/A	0.00040	mg/L	2021-10-06	
Potassium, total		0.98	N/A	0.10	mg/L	2021-10-06	
Selenium, total		< 0.00050	MAC = 0.05	0.00050	mg/L	2021-10-06	
Sodium, total		91.0	AO ≤ 200	0.10	mg/L	2021-10-06	
Strontium, total		3.09	7	0.0010	mg/L	2021-10-06	
Uranium, total		0.296	MAC = 0.02	0.000020	mg/L	2021-10-06	
Zinc, total		0.0070	AO ≤ 5	0.0040	mg/L	2021-10-06	
	Matrix: Water   Samp	led: 2021-09-29 1	3:50				
Anions							
Chloride		29.0	AO ≤ 250		mg/L	2021-09-30	
Fluoride		0.26	MAC = 1.5		mg/L	2021-09-30	
Nitrate (as N)		0.131	MAC = 10	0.010		2021-09-30	
Nitrite (as N)		< 0.010	MAC = 1	0.010	mg/L mg/L	2021-09-30	
Hardness, Total (as		70.2	None Required	0.500	mg/L	N/A	
Langelier Index		-0.8	N/A	-5.0		2021-10-07	
Solids, Total Dissolv	/ed	115	AO ≤ 500	1.00	mg/L	N/A	
General Parameters							
Alkalinity, Total (as	CaCO3)	64.3	N/A	1.0	mg/L	2021-10-03	
Alkalinity, Phenolph	thalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2021-10-03	
Alkalinity, Bicarbona	ate (as CaCO3)	64.3	N/A	1.0	mg/L	2021-10-03	
Alkalinity, Carbonat	e (as CaCO3)	< 1.0	N/A	1.0	mg/L	2021-10-03	
Alkalinity, Hydroxide	e (as CaCO3)	< 1.0	N/A	1.0	mg/L	2021-10-03	
Colour, True		< 5.0	AO ≤ 15	5.0	CU	2021-10-01	
Conductivity (EC)		209	N/A	2.0	μS/cm	2021-10-03	
Cyanide, Total		< 0.0020	MAC = 0.2	0.0020	mg/L	2021-10-02	
pH		7.61	7.0-10.5	0.10	pH units	2021-10-03	HT2
Temperature, at pH		22.0	N/A		°C	2021-10-03	HT2
Turbidity		3.72	OG < 1	0.10	NTU	2021-10-02	
Microbiological Para	ameters						
Coliforms, Total		< 1	MAC = 0	1	CFU/100 mL	2021-09-30	
E. coli		< 1	MAC = 0		CFU/100 mL	2021-09-30	
Total Metals							
Aluminum, total		0.179	OG < 0.1	0.0050	mg/L	2021-10-06	
Antimony, total		< 0.00020	MAC = 0.006	0.00020		2021-10-06	
Arsenic, total		< 0.00050	MAC = 0.01	0.00050		2021-10-06	
							Page 3 of



REPORTED TO	Dan Gare Drilling	WORK ORDER	2114050
PROJECT	Analytical Testing	REPORTED	2021-11-12 09:58

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
62176 (21I4050-02)   Matrix: Water   Sam	pled: 2021-09-29 1	3:50, Continued				
Total Metals, Continued						
Barium, total	0.0142	MAC = 2	0.0050	mg/L	2021-10-06	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2021-10-06	
Cadmium, total	0.000011	MAC = 0.005	0.000010	mg/L	2021-10-06	
Calcium, total	17.0	None Required	0.20	mg/L	2021-10-06	
Chromium, total	0.00067	MAC = 0.05	0.00050	mg/L	2021-10-06	
Cobalt, total	0.00021	N/A	0.00010	mg/L	2021-10-06	
Copper, total	0.00125	MAC = 2	0.00040	mg/L	2021-10-06	
Iron, total	0.263	AO ≤ 0.3	0.010	mg/L	2021-10-06	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2021-10-06	
Magnesium, total	6.71	None Required	0.010	mg/L	2021-10-06	
Manganese, total	0.0296	MAC = 0.12	0.00020	mg/L	2021-10-06	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2021-10-07	
Molybdenum, total	0.00115	N/A	0.00010	mg/L	2021-10-06	
Nickel, total	0.00118	N/A	0.00040	mg/L	2021-10-06	
Potassium, total	1.47	N/A	0.10	mg/L	2021-10-06	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2021-10-06	
Sodium, total	15.5	AO ≤ 200	0.10	mg/L	2021-10-06	
Strontium, total	0.186	7	0.0010	mg/L	2021-10-06	
Uranium, total	0.00204	MAC = 0.02	0.000020	mg/L	2021-10-06	
Zinc, total	0.0050	AO ≤ 5	0.0040	mg/L	2021-10-06	
	pled: 2021-09-30 0	98:45				
	pled: 2021-09-30 0	08:45 AO ≤ 250	0.10	mg/L	2021-09-30	
Anions	-			mg/L mg/L	2021-09-30 2021-09-30	
<b>Anions</b> Chloride	28.0	AO ≤ 250		mg/L		
Anions Chloride Fluoride	28.0 0.23	AO ≤ 250 MAC = 1.5	0.10	mg/L mg/L	2021-09-30	
Anions Chloride Fluoride Nitrate (as N)	28.0 0.23 0.082	AO ≤ 250 MAC = 1.5 MAC = 10	0.10 0.010 0.010	mg/L mg/L	2021-09-30 2021-09-30	
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate	28.0 0.23 0.082 < 0.010	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1	0.10 0.010 0.010	mg/L mg/L mg/L	2021-09-30 2021-09-30 2021-09-30	
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate	28.0 0.23 0.082 < 0.010	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1	0.10 0.010 0.010	mg/L mg/L mg/L mg/L	2021-09-30 2021-09-30 2021-09-30	
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters	28.0 0.23 0.082 < 0.010 6.9	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500	0.10 0.010 0.010 1.0	mg/L mg/L mg/L mg/L	2021-09-30 2021-09-30 2021-09-30 2021-09-30	
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3)	28.0 0.23 0.082 < 0.010 6.9	AO ≤ 250  MAC = 1.5  MAC = 10  MAC = 1  AO ≤ 500  None Required	0.10 0.010 0.010 1.0 0.500	mg/L mg/L mg/L mg/L	2021-09-30 2021-09-30 2021-09-30 2021-09-30 N/A	
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved	28.0 0.23 0.082 < 0.010 6.9	AO ≤ 250  MAC = 1.5  MAC = 10  MAC = 1  AO ≤ 500  None Required  N/A	0.10 0.010 0.010 1.0 0.500	mg/L mg/L mg/L mg/L	2021-09-30 2021-09-30 2021-09-30 2021-09-30 N/A 2021-10-07	
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved	28.0 0.23 0.082 < 0.010 6.9	AO ≤ 250  MAC = 1.5  MAC = 10  MAC = 1  AO ≤ 500  None Required  N/A	0.10 0.010 0.010 1.0 0.500 -5.0 1.00	mg/L mg/L mg/L mg/L	2021-09-30 2021-09-30 2021-09-30 2021-09-30 N/A 2021-10-07	
Fluoride Nitrate (as N) Nitrite (as N) Sulfate  Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved  General Parameters	28.0 0.23 0.082 < 0.010 6.9 70.2 -0.9	AO ≤ 250  MAC = 1.5  MAC = 10  MAC = 1  AO ≤ 500  None Required  N/A  AO ≤ 500	0.10 0.010 0.010 1.0 0.500 -5.0 1.00	mg/L mg/L mg/L mg/L mg/L	2021-09-30 2021-09-30 2021-09-30 2021-09-30 N/A 2021-10-07 N/A	
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate  Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved  General Parameters Alkalinity, Total (as CaCO3)	28.0 0.23 0.082 < 0.010 6.9 70.2 -0.9 120	AO ≤ 250  MAC = 1.5  MAC = 10  MAC = 1  AO ≤ 500  None Required  N/A  AO ≤ 500	0.10 0.010 0.010 1.0 0.500 -5.0 1.00	mg/L mg/L mg/L mg/L mg/L mg/L	2021-09-30 2021-09-30 2021-09-30 2021-09-30 N/A 2021-10-07 N/A	
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate  Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved  General Parameters Alkalinity, Total (as CaCO3) Alkalinity, Phenolphthalein (as CaCO3)	28.0 0.23 0.082 < 0.010 6.9 70.2 -0.9 120 68.1 < 1.0	AO ≤ 250  MAC = 1.5  MAC = 10  MAC = 1  AO ≤ 500  None Required  N/A  AO ≤ 500  N/A  N/A	0.10 0.010 0.010 1.0 0.500 -5.0 1.00	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2021-09-30 2021-09-30 2021-09-30 2021-09-30 N/A 2021-10-07 N/A 2021-10-03 2021-10-03	
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved General Parameters Alkalinity, Total (as CaCO3) Alkalinity, Phenolphthalein (as CaCO3) Alkalinity, Bicarbonate (as CaCO3)	28.0 0.23 0.082 < 0.010 6.9 70.2 -0.9 120 68.1 < 1.0 68.1	AO ≤ 250  MAC = 1.5  MAC = 10  MAC = 1  AO ≤ 500  None Required  N/A  AO ≤ 500  N/A  N/A  N/A  N/A	0.10 0.010 1.0 0.500 -5.0 1.00 1.0 1.0 1.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2021-09-30 2021-09-30 2021-09-30 2021-09-30 N/A 2021-10-07 N/A 2021-10-03 2021-10-03 2021-10-03	
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved General Parameters Alkalinity, Total (as CaCO3) Alkalinity, Phenolphthalein (as CaCO3) Alkalinity, Bicarbonate (as CaCO3) Alkalinity, Carbonate (as CaCO3)	28.0 0.23 0.082 < 0.010 6.9 70.2 -0.9 120 68.1 < 1.0 68.1 < 1.0	AO ≤ 250  MAC = 1.5  MAC = 10  MAC = 1  AO ≤ 500  None Required  N/A  AO ≤ 500  N/A  N/A  N/A  N/A  N/A	0.10 0.010 1.0 0.500 -5.0 1.00 1.0 1.0 1.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2021-09-30 2021-09-30 2021-09-30 2021-09-30 N/A 2021-10-07 N/A 2021-10-03 2021-10-03 2021-10-03 2021-10-03	HT1



REPORTED TO	Dan Gare Drilling	WORK ORDER	2114050
PROJECT	Analytical Testing	REPORTED	2021-11-12 09:58

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
62138 (21I4050-03)   Matrix: Water   S	Sampled: 2021-09-30	08:45, Continued				
General Parameters, Continued						
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2021-10-02	
pH	7.51	7.0-10.5	0.10	pH units	2021-10-03	HT2
Temperature, at pH	22.1	N/A		°C	2021-10-03	HT2
Turbidity	2.12	OG < 1	0.10	NTU	2021-10-02	
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2021-09-30	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2021-09-30	
Total Metals						
Aluminum, total	0.141	OG < 0.1	0.0050	mg/L	2021-10-06	
Antimony, total	< 0.00020	MAC = 0.006	0.00020		2021-10-06	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2021-10-06	
Barium, total	0.0123	MAC = 2	0.0050	mg/L	2021-10-06	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2021-10-06	
Cadmium, total	< 0.000010	MAC = 0.005	0.000010	mg/L	2021-10-06	
Calcium, total	16.2	None Required	0.20	mg/L	2021-10-06	
Chromium, total	0.00059	MAC = 0.05	0.00050	mg/L	2021-10-06	
Cobalt, total	0.00012	N/A	0.00010	mg/L	2021-10-06	
Copper, total	0.00258	MAC = 2	0.00040	mg/L	2021-10-06	
Iron, total	0.303	AO ≤ 0.3	0.010	mg/L	2021-10-06	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2021-10-06	
Magnesium, total	7.23	None Required	0.010	mg/L	2021-10-06	
Manganese, total	0.0507	MAC = 0.12	0.00020	mg/L	2021-10-06	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2021-10-07	
Molybdenum, total	0.00119	N/A	0.00010	mg/L	2021-10-06	
Nickel, total	0.00121	N/A	0.00040	mg/L	2021-10-06	
Potassium, total	1.27	N/A	0.10	mg/L	2021-10-06	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2021-10-06	
Sodium, total	18.3	AO ≤ 200	0.10	mg/L	2021-10-06	
Strontium, total	0.236	7	0.0010	mg/L	2021-10-06	
Uranium, total	0.00241	MAC = 0.02	0.000020	mg/L	2021-10-06	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2021-10-06	

### 62175 (21I4050-04) | Matrix: Water | Sampled: 2021-09-30 08:35

Anions					
Chloride	24.3	AO ≤ 250	0.10 mg/L	2021-09-30	
Fluoride	0.23	MAC = 1.5	0.10 mg/L	2021-09-30	
Nitrate (as N)	0.098	MAC = 10	0.010 mg/L	2021-09-30	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2021-09-30	
Sulfate	6.4	AO ≤ 500	1.0 mg/L	2021-09-30	



REPORTED TO PROJECT	Dan Gare Drilling Analytical Testing				WORK ORDER REPORTED	21I4050 2021-11-1	2 09:58
Analyte		Result	Guideline	RL	Units	Analyzed	Qualifier
62175 (2114050-0	4)   Matrix: Water   Samp	oled: 2021-09-30 0	8:35, Continued				
Calculated Parame	eters, Continued						
Hardness, Total (a	as CaCO3)	65.4	None Required	0.500	mg/L	N/A	
Langelier Index	,	-0.9	N/A	-5.0		2021-10-07	
Solids, Total Disso	olved	111	AO ≤ 500	1.00	mg/L	N/A	
General Parameter	rs						
Alkalinity, Total (as	s CaCO3)	66.7	N/A	1.0	mg/L	2021-10-03	
	ohthalein (as CaCO3)	< 1.0	N/A		mg/L	2021-10-03	
Alkalinity, Bicarbo		66.7	N/A		mg/L	2021-10-03	
Alkalinity, Carbona		< 1.0	N/A		mg/L	2021-10-03	
Alkalinity, Hydroxi		< 1.0	N/A		mg/L	2021-10-03	
Colour, True	( )	5.8	AO ≤ 15		CU	2021-10-04	HT1
Conductivity (EC)		210	N/A	2.0	μS/cm	2021-10-03	
Cyanide, Total		< 0.0020	MAC = 0.2	0.0020	<u>'</u>	2021-10-02	
pH		7.49	7.0-10.5		pH units	2021-10-03	HT2
Temperature, at p	Н	22.2	N/A		°C	2021-10-03	HT2
Turbidity		0.53	OG < 1	0.10	NTU	2021-10-02	
Microbiological Pa	rameters						
Coliforms, Total		< 1	MAC = 0	1	CFU/100 mL	2021-09-30	
E. coli		< 1	MAC = 0	1	CFU/100 mL	2021-09-30	
Total Metals							
Aluminum, total		0.0235	OG < 0.1	0.0050	mg/L	2021-10-06	
Antimony, total		< 0.00020	MAC = 0.006	0.00020	mg/L	2021-10-06	
Arsenic, total		< 0.00050	MAC = 0.01	0.00050	mg/L	2021-10-06	
Barium, total		0.0095	MAC = 2	0.0050	mg/L	2021-10-06	
Boron, total		< 0.0500	MAC = 5	0.0500	mg/L	2021-10-06	
Cadmium, total		0.000019	MAC = 0.005	0.000010	mg/L	2021-10-06	
Calcium, total		15.7	None Required	0.20	mg/L	2021-10-06	
Chromium, total		< 0.00050	MAC = 0.05	0.00050	mg/L	2021-10-06	
Cobalt, total		< 0.00010	N/A	0.00010	mg/L	2021-10-06	
Copper, total		0.00089	MAC = 2	0.00040	mg/L	2021-10-06	
Iron, total		0.110	AO ≤ 0.3	0.010	mg/L	2021-10-06	
Lead, total		< 0.00020	MAC = 0.005	0.00020	mg/L	2021-10-06	
Magnesium, total		6.34	None Required	0.010	mg/L	2021-10-06	
Manganese, total		0.00907	MAC = 0.12	0.00020	mg/L	2021-10-06	
Mercury, total		< 0.000010	MAC = 0.001	0.000010		2021-10-07	
Molybdenum, tota	<u>l</u>	0.00123	N/A	0.00010		2021-10-06	
Nickel, total		0.00077	N/A	0.00040		2021-10-06	
Potassium, total		1.24	N/A		mg/L	2021-10-06	
Selenium, total		< 0.00050	MAC = 0.05	0.00050		2021-10-06	
Sodium, total		16.4	AO ≤ 200		mg/L	2021-10-06	
Strontium, total		0.195	7	0.0010		2021-10-06	
Uranium, total		0.00195	MAC = 0.02	0.000020	mg/L	2021-10-06	





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WORK ORDER

2114050

REPORTED

2021-11-12 09:58

Analyte Result Guideline RL Units Analyzed Qualifier

62175 (21I4050-04) | Matrix: Water | Sampled: 2021-09-30 08:35, Continued

Total Metals, Continued

Zinc, total 0.0058 AO  $\leq 5$  0.0040 mg/L 2021-10-06

Sample Qualifiers:

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**

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WORK ORDER REPORTED

2114050

2021-11-12 09:58

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2017)	Titration with H2SO4	✓	Kelowna
Anions in Water	SM 4110 B (2017)	Ion Chromatography	✓	Kelowna
Coliforms, Total in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Colour, True in Water	SM 2120 C (2017)	Spectrophotometry (456 nm)	✓	Kelowna
Conductivity in Water	SM 2510 B (2017)	Conductivity Meter	✓	Kelowna
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperomet	ry 🗸	Kelowna
E. coli in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Hardness in Water	SM 2340 B* (2017)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	✓	N/A
Langelier Index in Water	SM 2330 B (2017)	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 (2017)	Electrometry	✓	Kelowna
Solids, Total Dissolved in Water	SM 1030 E (2017)	SM 1030 E (2011)		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 (2017)	Nephelometry	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO 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

CFU/100 mL Colony Forming Units per 100 millilitres

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  $\mu S/cm$  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



### **APPENDIX 1: SUPPORTING INFORMATION**

REPORTED TO Dan Gare Drilling PROJECT Analytical Testing

WORK ORDER REPORTED 2114050

2021-11-12 09:58

#### **General Comments:**

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued or once samples expire, whichever comes first. Longer hold is possible if agreed to in writing. The quality control (QC) data is available upon request

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do <u>not</u> take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager:teamcaro@caro.ca

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability or responsibility for any loss attributed from the use of these guidelines in any way.





REPORTED TO PROJECT	Dan Gare Drilling Analytical Testing			WORK ORDER REPORTED	21I4050 2021-11-12 09:58
Sample ID	Changed	Change	Analysis	Analyte(s)	
21I4050-01	2021-11-12	Sample ID	N/A	N/A	