



CERTIFICATE OF ANALYSIS

REPORTED TO Kaleden Irrigation District
119 Ponderosa Avenue
Kaleden, BC V0H 1K0

ATTENTION Mike Snair

PO NUMBER
PROJECT Drinking Water
PROJECT INFO

WORK ORDER 0090900

RECEIVED / TEMP 2020-09-09 09:15 / 8°C
REPORTED 2020-09-16 15:15
COC NUMBER No 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



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.

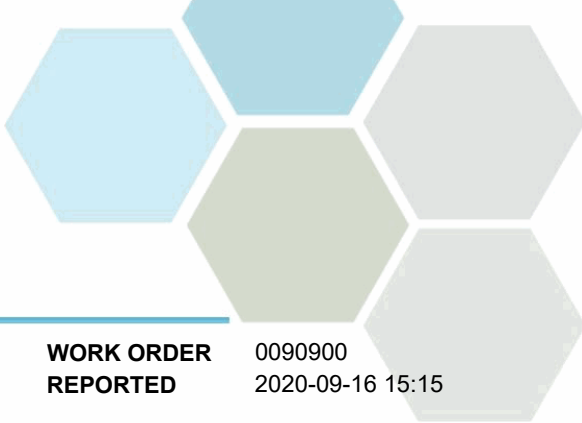
If you have any questions or concerns, please contact me at teamcaro@caro.ca

Authorized By:

Team CARO
Client Service Representative

1-888-311-8846 | www.caro.ca

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7



TEST RESULTS

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Drinking Water

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2020-09-16 15:15

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Pumphouse - 119 Ponderosa (0090900-01) | Matrix: Water | Sampled: 2020-09-08 12:00

Microbiological Parameters

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2020-09-09	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2020-09-09	

100 Ash Ave. (0090900-02) | Matrix: Water | Sampled: 2020-09-08 11:00

Calculated Parameters

Total Trihalomethanes	0.0673	MAC = 0.1	0.00400	mg/L	N/A	
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Haloacetic Acids

Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2020-09-14	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2020-09-14	
Dichloroacetic Acid	0.0165	N/A	0.0020	mg/L	2020-09-14	
Trichloroacetic Acid	0.0147	N/A	0.0020	mg/L	2020-09-14	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2020-09-14	
Total Haloacetic Acids (HAA5)	0.0312	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	113		70-130	%	2020-09-14	

Volatile Organic Compounds (VOC)

Bromodichloromethane	0.0052	N/A	0.0010	mg/L	2020-09-13	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2020-09-13	
Chloroform	0.0622	N/A	0.0010	mg/L	2020-09-13	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2020-09-13	
Surrogate: Toluene-d8	87		70-130	%	2020-09-13	
Surrogate: 4-Bromofluorobenzene	102		70-130	%	2020-09-13	

621 Linden Ave (0090900-03) | Matrix: Water | Sampled: 2020-09-08 11:45

Calculated Parameters

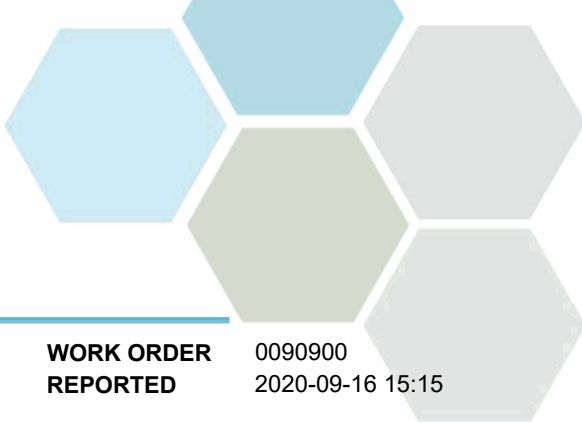
Total Trihalomethanes	0.0608	MAC = 0.1	0.00400	mg/L	N/A	
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Haloacetic Acids

Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2020-09-14	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2020-09-14	
Dichloroacetic Acid	0.0141	N/A	0.0020	mg/L	2020-09-14	
Trichloroacetic Acid	0.0121	N/A	0.0020	mg/L	2020-09-14	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2020-09-14	
Total Haloacetic Acids (HAA5)	0.0262	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	104		70-130	%	2020-09-14	

Volatile Organic Compounds (VOC)

Bromodichloromethane	0.0043	N/A	0.0010	mg/L	2020-09-13	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2020-09-13	
Chloroform	0.0564	N/A	0.0010	mg/L	2020-09-13	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2020-09-13	

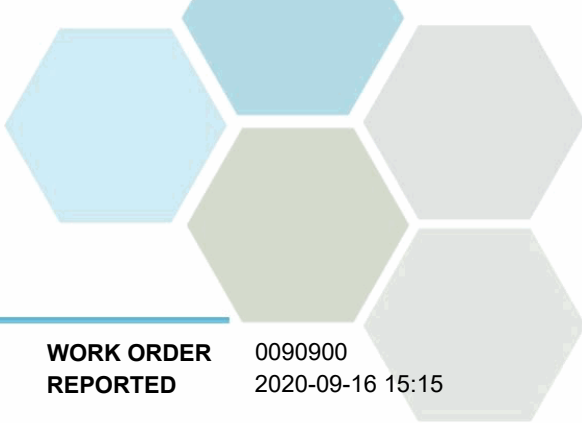


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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
621 Linden Ave (0090900-03) Matrix: Water Sampled: 2020-09-08 11:45, Continued						
<i>Volatile Organic Compounds (VOC), Continued</i>						
Surrogate: Toluene-d8	89		70-130	%	2020-09-13	
Surrogate: 4-Bromofluorobenzene	103		70-130	%	2020-09-13	



APPENDIX 1: SUPPORTING INFORMATION

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Analysis Description	Method Ref.	Technique	Accredited	Location
Coliforms, Total in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
E. coli in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Haloacetic Acids in Water	EPA 552.3*	Liquid-Liquid Microextraction, Derivatization and GC-ECD	✓	Richmond
Trihalomethanes in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	Richmond

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
CFU/100 mL	Colony Forming Units per 100 millilitres
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

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 unless otherwise 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 not 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

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