



REPORTED TO Stettler, Town of (Alberta)

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.

5031 - 50 Street Stettler, AB T0C 2L0

ATTENTION Grant McQuay WORK ORDER

PO NUMBER

2024-04-04 09:00 / 10.7°C **RECEIVED / TEMP** THM+HAA **REPORTED** 2024-04-15 13:05 **PROJECT**

B144784 **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 working with enjoy fun and our engaged team the more members; likely you are to give us continued opportunities to support you.

Ahead of the Curve

24D0449

research, Through regulation and instrumentation, knowledge, are your analytical centre the knowledge you

technical 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 efex@caro.ca

Authorized By:

Echo Fex

Junior Account Manager

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



TEST RESULTS

REPORTED TO	Stettler, Town of (Alberta)	WORK ORDER	24D0449
PROJECT	THM+HAA	REPORTED	2024-04-15 13:05

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
GT Hydraulic (24D0449-01) Matrix: Wa	iter Sampled: 2024	-04-03 11:02				
Calculated Parameters						
Total Trihalomethanes	0.0272	MAC = 0.1	0.00400	mg/L	N/A	
Haloacetic Acids						
Monochloroacetic Acid	0.0031	N/A	0.0020	mg/L	2024-04-15	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-04-15	
Dichloroacetic Acid	0.0150	N/A	0.0020	mg/L	2024-04-15	
Trichloroacetic Acid	0.0153	N/A	0.0020	mg/L	2024-04-15	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-04-15	
Total Haloacetic Acids (HAA5)	0.0334	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	102		70-130	%	2024-04-15	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	0.0022	N/A	0.0010	mg/L	2024-04-05	
Bromoform	< 0.0010	N/A	0.0010		2024-04-05	
Chloroform	0.0250	N/A	0.0010		2024-04-05	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-04-05	
Surrogate: Toluene-d8	111		70-130	%	2024-04-05	
Surrogate: 4-Bromofluorobenzene	94		70-130	%	2024-04-05	
Town Shop (24D0449-02) Matrix: Wate Calculated Parameters Total Trihalomethanes	o.0510	MAC = 0.1	0.00400	mg/L	N/A	
Haloacetic Acids					·	
Monochloroacetic Acid	0.0039	N/A	0.0020	mg/L	2024-04-15	
Monobromoacetic Acid	< 0.0020	N/A	0.0020		2024-04-15	
Dichloroacetic Acid	0.0236	N/A	0.0020		2024-04-15	
Trichloroacetic Acid	0.0282	N/A	0.0020		2024-04-15	
Dibromoacetic Acid	< 0.0020	N/A	0.0020		2024-04-15	
Total Haloacetic Acids (HAA5)	0.0557	MAC = 0.08	0.00200		N/A	
Surrogate: 2-Bromopropionic Acid	108		70-130		2024-04-15	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	0.0024	N/A	0.0010	mg/L	2024-04-05	
Bromoform	< 0.0010	N/A	0.0010		2024-04-05	
Chloroform	0.0486	N/A	0.0010		2024-04-05	
Dibromochloromethane	< 0.0010	N/A	0.0010		2024-04-05	
Surrogate: Toluene-d8	109		70-130		2024-04-05	
Currente A Dramativa valua valua	04		70.400	0/	2024.04.05	

Turtle Club (24D0449-03) | Matrix: Water | Sampled: 2024-04-03 10:55

Surrogate: 4-Bromofluorobenzene

2024-04-05

70-130 %

91



TEST RESULTS

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 WORK ORDER
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 PROJECT
 THM+HAA
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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Turtle Club (24D0449-03) Matrix: Water	r Sampled: 2024-0	4-03 10:55, Contin	ued			
Calculated Parameters, Continued						
Total Trihalomethanes	0.0390	MAC = 0.1	0.00400	mg/L	N/A	
Haloacetic Acids						
Monochloroacetic Acid	0.0048	N/A	0.0020	mg/L	2024-04-15	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-04-15	
Dichloroacetic Acid	0.0184	N/A	0.0020	mg/L	2024-04-15	
Trichloroacetic Acid	0.0206	N/A	0.0020	mg/L	2024-04-15	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-04-15	
Total Haloacetic Acids (HAA5)	0.0438	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	111		70-130	%	2024-04-15	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	0.0023	N/A	0.0010	mg/L	2024-04-05	
Bromoform	< 0.0010	N/A	0.0010		2024-04-05	
Chloroform	0.0367	N/A	0.0010	mg/L	2024-04-05	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-04-05	
Surrogate: Toluene-d8	115		70-130	%	2024-04-05	
Surrogate: 4-Bromofluorobenzene	95		70-130	%	2024-04-05	



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Stettler, Town of (Alberta) WORK ORDER 24D0449

PROJECT THM+HAA **REPORTED** 2024-04-15 13:05

Analysis Description	Method Ref.	Technique	Accredited	Location
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)	✓	Edmonton

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

MAC Maximum Acceptable Concentration (health based)

mg/L Milligrams per litre

EPA United States Environmental Protection Agency Test Methods

Guidelines Referenced in this Report:

Guidelines for Canadian Drinking Water Quality (Health Canada, September 2022)

Note: In some cases, the values displayed on the report represent the lowest guideline and are to be verified by the end user

General Comments:

The results in this report apply to the received 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. Caro will dispose of all samples within 30 days of sample receipt, unless otherwise agreed. 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:efex@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.