

CERTIFICATE OF ANALYSIS

REPORTED TO	Stettler, Town of (Alberta) 5031 - 50 Street Stettler, AB T0C 2L0		
ATTENTION	Grant McQuay	WORK ORDER	23A0859
PO NUMBER PROJECT PROJECT INFO	THM+HAA	RECEIVED / TEMP REPORTED COC NUMBER	2023-01-11 08:30 / 7.6°C 2023-01-20 14:44 09605

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.

We've Got Chemistry

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. 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.

👗 Ah

Ahead of the Curve

Through research, regulation and instrumentation, knowledge, we are your analytical centre the for knowledge technical 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 rpshyk@caro.ca

Authorized By:

Regan Pshyk Account Manager

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TEST RESULTS

REPORTED TO PROJECT	Stettler, Town of (Alberta) THM+HAA				WORK ORDER REPORTED	23A0859 2023-01-2	0 14:44
Analyte		Result	Guideline	RL	Units	Analyzed	Qualifier
GT Hydaulic (234	A0859-01) Matrix: Water Sa	mpled: 2023-	01-10 10:02				
Calculated Parame	eters						
Total Trihalometha	anes	0.0295	MAC = 0.1	0.00400	mg/L	N/A	
Haloacetic Acids							
Monochloroacetic Acid		< 0.0020	N/A	0.0020	mg/L	2023-01-18	
Monobromoacetic	Acid	< 0.0020	N/A	0.0020	mg/L	2023-01-18	
Dichloroacetic Acid		0.0062	N/A	0.0020	mg/L	2023-01-18	
Trichloroacetic Acid		0.0256	N/A	0.0020	mg/L	2023-01-18	
Dibromoacetic Acid		< 0.0020	N/A	0.0020	mg/L	2023-01-18	
Total Haloacetic Acids (HAA5)		0.0318	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid		106		70-130	%	2023-01-18	
Volatile Organic Co	ompounds (VOC)						
Bromodichloromethane		0.0029	N/A	0.0010	mg/L	2023-01-12	
Bromoform		< 0.0010	N/A	0.0010	mg/L	2023-01-12	
Chloroform		0.0265	N/A	0.0010	mg/L	2023-01-12	
Dibromochlorome	thane	< 0.0010	N/A	0.0010	mg/L	2023-01-12	
Surrogate: Toluen	ne-d8	103		70-130	%	2023-01-12	
Surrogate: 4-Bron	nofluorobenzene	97		70-130	%	2023-01-12	

Turtle Club (23A0859-02) | Matrix: Water | Sampled: 2023-01-10 09:53

Total Trihalomethanes	0.0243	MAC = 0.1	0.00400	mg/L	N/A	
Haloacetic Acids						RS2
Monochloroacetic Acid	0.0182	N/A	0.0020	mg/L	2023-01-18	
Monobromoacetic Acid	< 0.0032	N/A	0.0020	mg/L	2023-01-18	
Dichloroacetic Acid	0.0151	N/A	0.0020	mg/L	2023-01-18	
Trichloroacetic Acid	0.0118	N/A	0.0020	mg/L	2023-01-18	
Dibromoacetic Acid	< 0.0032	N/A	0.0020	mg/L	2023-01-18	
Total Haloacetic Acids (HAA5)	0.0451	MAC = 0.08	0.00317	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	113		70-130	%	2023-01-18	
/olatile Organic Compounds (VOC)						
Bromodichloromethane	0.0025	N/A	0.0010	mg/L	2023-01-12	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2023-01-12	
Chloroform	0.0218	N/A	0.0010	mg/L	2023-01-12	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2023-01-12	
Surrogate: Toluene-d8	106		70-130	%	2023-01-12	
Surrogate: 4-Bromofluorobenzene	100		70-130	%	2023-01-12	

Sample Qualifiers:

RS2 The Reporting Limits for this sample have been raised due to limited sample volume.

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APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT	Stettler, To THM+HAA	wn of (Alberta)	WORK (REPOR		23A0859 2023-01-2	0 14:44
Analysis Descri	iption	Method Ref.	Technique		Accredited	Location
Haloacetic Acids i	n Water	EPA 552.3*	Liquid-Liquid Microextraction, Derivatization an GC-ECD	nd	\checkmark	Richmond
Trihalomethanes i	n Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)		\checkmark	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. 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:rpshyk@caro.ca

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