# CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| **REPORTED TO** | Stettler, Town of (Alberta)<br>5031 - 50 Street<br>Stettler, AB T0C 2L0 | | |
| **ATTENTION** | Grant McQuay | **WORK ORDER** | 25G0309 |
| **PO NUMBER** | | **RECEIVED / TEMP** | 2025-07-03 09:30 / 16.2°C |
| **PROJECT** | THM+HAA | **REPORTED** | 2025-07-08 14:03 |
| **PROJECT INFO** | | **COC NUMBER** | No # |

**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 hhannaoui@caro.ca*

**Authorized By:**

Hanane El Hannaoui
Junior Account Manager

CARO ANALYTICAL SERVICES

# TEST RESULTS

**REPORTED TO** Stettler, Town of (Alberta)
**PROJECT** THM+HAA

**WORK ORDER** 25G0309
**REPORTED** 2025-07-08 14:03

| Analyte | Result | Guideline | RL | Units | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **GT Hydraulic (25G0309-01) \| Matrix: Water \| Sampled: 2025-07-02 11:13** | | | | | | |
| ***Calculated Parameters*** | | | | | | |
| Total Trihalomethanes | **0.0508** | MAC = 0.1 | 0.00400 | mg/L | N/A | |
| ***Haloacetic Acids*** | | | | | | |
| Monochloroacetic Acid | < 0.0020 | N/A | 0.0020 | mg/L | 2025-07-08 | |
| Monobromoacetic Acid | **0.0030** | N/A | 0.0020 | mg/L | 2025-07-08 | |
| Dichloroacetic Acid | **0.0343** | N/A | 0.0020 | mg/L | 2025-07-08 | |
| Trichloroacetic Acid | **0.0190** | N/A | 0.0020 | mg/L | 2025-07-08 | |
| Dibromoacetic Acid | < 0.0020 | N/A | 0.0020 | mg/L | 2025-07-08 | |
| Total Haloacetic Acids (HAA5) | **0.0563** | MAC = 0.08 | 0.00200 | mg/L | N/A | |
| *Surrogate: 2-Bromopropionic Acid* | *109* | | *70-130* | % | *2025-07-08* | |
| ***Volatile Organic Compounds (VOC)*** | | | | | | |
| Bromodichloromethane | **0.0038** | N/A | 0.0010 | mg/L | 2025-07-04 | |
| Bromoform | < 0.0010 | N/A | 0.0010 | mg/L | 2025-07-04 | |
| Chloroform | **0.0470** | N/A | 0.0010 | mg/L | 2025-07-04 | |
| Dibromochloromethane | < 0.0010 | N/A | 0.0010 | mg/L | 2025-07-04 | |
| *Surrogate: Toluene-d8* | *108* | | *70-130* | % | *2025-07-04* | |
| *Surrogate: 4-Bromofluorobenzene* | *99* | | *70-130* | % | *2025-07-04* | |
| **Town Shop (25G0309-02) \| Matrix: Water \| Sampled: 2025-07-02 10:49** | | | | | | |
| ***Calculated Parameters*** | | | | | | |
| Total Trihalomethanes | **0.0500** | MAC = 0.1 | 0.00400 | mg/L | N/A | |
| ***Haloacetic Acids*** | | | | | | |
| Monochloroacetic Acid | < 0.0030 | N/A | 0.0020 | mg/L | 2025-07-08 | RA3 |
| Monobromoacetic Acid | **0.0032** | N/A | 0.0020 | mg/L | 2025-07-08 | |
| Dichloroacetic Acid | **0.0242** | N/A | 0.0020 | mg/L | 2025-07-08 | |
| Trichloroacetic Acid | **0.0173** | N/A | 0.0020 | mg/L | 2025-07-08 | |
| Dibromoacetic Acid | < 0.0020 | N/A | 0.0020 | mg/L | 2025-07-08 | |
| Total Haloacetic Acids (HAA5) | **0.0446** | MAC = 0.08 | 0.00300 | mg/L | N/A | |
| *Surrogate: 2-Bromopropionic Acid* | *117* | | *70-130* | % | *2025-07-08* | |
| ***Volatile Organic Compounds (VOC)*** | | | | | | |
| Bromodichloromethane | **0.0041** | N/A | 0.0010 | mg/L | 2025-07-04 | |
| Bromoform | < 0.0010 | N/A | 0.0010 | mg/L | 2025-07-04 | |
| Chloroform | **0.0459** | N/A | 0.0010 | mg/L | 2025-07-04 | |
| Dibromochloromethane | < 0.0010 | N/A | 0.0010 | mg/L | 2025-07-04 | |
| *Surrogate: Toluene-d8* | *106* | | *70-130* | % | *2025-07-04* | |
| *Surrogate: 4-Bromofluorobenzene* | *96* | | *70-130* | % | *2025-07-04* | |
| **Turtle Club (25G0309-03) \| Matrix: Water \| Sampled: 2025-07-02 11:04** | | | | | | |
| ***Calculated Parameters*** | | | | | | |

# TEST RESULTS

**REPORTED TO** Stettler, Town of (Alberta)
**PROJECT** THM+HAA

**WORK ORDER** 25G0309
**REPORTED** 2025-07-08 14:03

| Analyte | Result | Guideline | RL | Units | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Turtle Club (25G0309-03) \| Matrix: Water \| Sampled: 2025-07-02 11:04, Continued** | | | | | | |
| ***Calculated Parameters, Continued*** | | | | | | |
| Total Trihalomethanes | **0.0489** | MAC = 0.1 | 0.00400 | mg/L | N/A | |
| ***Haloacetic Acids*** | | | | | | |
| Monochloroacetic Acid | < 0.0030 | N/A | 0.0020 | mg/L | 2025-07-08 | RA3 |
| Monobromoacetic Acid | **0.0036** | N/A | 0.0020 | mg/L | 2025-07-08 | |
| Dichloroacetic Acid | **0.0310** | N/A | 0.0020 | mg/L | 2025-07-08 | |
| Trichloroacetic Acid | **0.0190** | N/A | 0.0020 | mg/L | 2025-07-08 | |
| Dibromoacetic Acid | < 0.0020 | N/A | 0.0020 | mg/L | 2025-07-08 | |
| Total Haloacetic Acids (HAA5) | **0.0536** | MAC = 0.08 | 0.00300 | mg/L | N/A | |
| *Surrogate: 2-Bromopropionic Acid* | *116* | | *70-130* | % | *2025-07-08* | |
| ***Volatile Organic Compounds (VOC)*** | | | | | | |
| Bromodichloromethane | **0.0039** | N/A | 0.0010 | mg/L | 2025-07-04 | |
| Bromoform | < 0.0010 | N/A | 0.0010 | mg/L | 2025-07-04 | |
| Chloroform | **0.0450** | N/A | 0.0010 | mg/L | 2025-07-04 | |
| Dibromochloromethane | < 0.0010 | N/A | 0.0010 | mg/L | 2025-07-04 | |
| *Surrogate: Toluene-d8* | *106* | | *70-130* | % | *2025-07-04* | |
| *Surrogate: 4-Bromofluorobenzene* | *95* | | *70-130* | % | *2025-07-04* | |

**Sample Qualifiers:**

RA3 The Reporting Limit has been raised due to comparable level detected in the blank(s).

# APPENDIX 1: SUPPORTING INFORMATION

| | | | |
|---|---|---|---|
| **REPORTED TO** | Stettler, Town of (Alberta) | **WORK ORDER** | 25G0309 |
| **PROJECT** | THM+HAA | **REPORTED** | 2025-07-08 14:03 |

| 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 samples received by CARO and analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety and must not be modified. CARO is not responsible for losses or damages resulting directly or indirectly from errors or omissions in the conduct of the testing. Any 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. Results in **red** indicate values above the regulatory limits where these have been included. 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: hhannaoui@caro.ca

*Regulatory limits are added to test reports on request and are as a convenience only. While CARO makes every effort to ensure accuracy of regulatory limits, CARO assumes no liability for the use of this information. It remains the client's responsibility to ensure that regulatory limits are correct for their circumstances.*