




Rainy River District School Board
ATTN: Travis Enge
McCrosson-Tovell School
522 2ND ST EAST
FORT FRANCES ON P9A 1N4

Date Received: 10-APR-18
Report Date: 12-APR-18 11:10 (MT)
Version: FINAL

Client Phone: 807-275-6762

Certificate of Analysis

Lab Work Order #: L2078071
Project P.O. #: NOT SUBMITTED
Job Reference: 260009789
C of C Numbers:
Legal Site Desc:



Christina Shepherd
Account Manager

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ANALYTICAL GUIDELINE REPORT

260009789

| Sample Details | | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | | | | | | |
|--|---------|--------|-----------|-------|-------|-----------|------------------|----|--|--|--|--|--|--|
| Grouping | Analyte | | | | | | #1 | #2 | | | | | | |
| L2078071-3 -E1 TREATED MECHANICAL ROOM | | | | | | | | | | | | | | |
| Sampled By: MK on 09-APR-18 @ 11:40 | | | | | | | | | | | | | | |
| Matrix: Treated | | | | | | | | | | | | | | |
| Anions and Nutrients | | | | | | | | | | | | | | |
| Nitrate and Nitrite as N | | <0.040 | | 0.040 | mg/L | 12-APR-18 | 10.0 | | | | | | | |
| Nitrate (as N) | | <0.020 | | 0.020 | mg/L | 11-APR-18 | 10 | | | | | | | |
| Nitrite (as N) | | <0.010 | | 0.010 | mg/L | 11-APR-18 | 1 | | | | | | | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Drinking Water Regulation (ODWQS) JAN.1,2018 = [Suite] - ON-DW-STANDARD+GUIDELINES

#1: Schedule 1 (Microbiological) and 2 (Chemical) Standards (JAN,2018)

#2: Ontario DW Aesthetic and Operational Guidelines

Reference Information

Methods Listed (if applicable):

| ALS Test Code | Matrix | Test Description | Method Reference*** |
|--|--------|--------------------------|---------------------|
| ETL-N2N3-TB | Water | Calculate from NO2 + NO3 | Calculation |
| NO2-DW-IC-TB | Water | Nitrite in Water by IC | EPA 300.1 (mod) |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. | | | |
| NO3-DW-IC-TB | Water | Nitrate in Water by IC | EPA 300.1 (mod) |

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location | Laboratory Definition Code | Laboratory Location |
|----------------------------|--|----------------------------|---------------------|
| TB | ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA | | |

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information.



Quality Control Report

Workorder: L2078071

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Client: Rainy River District School Board
McCrosson-Tovell School 522 2ND ST EAST
FORT FRANCES ON P9A 1N4

Contact: Travis Enge

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| NO2-DW-IC-TB | | Water | | | | | | |
| Batch | R4008760 | | | | | | | |
| WG2749110-3 | DUP | L2077965-1 | | | | | | |
| Nitrite (as N) | | <0.010 | <0.010 | RPD-NA | mg/L | N/A | 20 | 11-APR-18 |
| WG2749110-2 | LCS | | | | | | | |
| Nitrite (as N) | | | 96.8 | | % | | 90-110 | 11-APR-18 |
| WG2749110-1 | MB | | | | | | | |
| Nitrite (as N) | | | <0.010 | | mg/L | | 0.01 | 11-APR-18 |
| WG2749110-4 | MS | L2078041-3 | | | | | | |
| Nitrite (as N) | | | 94.6 | | % | | 75-125 | 11-APR-18 |
| NO3-DW-IC-TB | | Water | | | | | | |
| Batch | R4008760 | | | | | | | |
| WG2749110-3 | DUP | L2077965-1 | | | | | | |
| Nitrate (as N) | | 0.136 | 0.135 | | mg/L | 0.7 | 20 | 11-APR-18 |
| WG2749110-2 | LCS | | | | | | | |
| Nitrate (as N) | | | 98.5 | | % | | 90-110 | 11-APR-18 |
| WG2749110-1 | MB | | | | | | | |
| Nitrate (as N) | | | <0.020 | | mg/L | | 0.02 | 11-APR-18 |
| WG2749110-4 | MS | L2078041-3 | | | | | | |
| Nitrate (as N) | | | 95.3 | | % | | 75-125 | 11-APR-18 |

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Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|---|
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



L2078071-COFC

ALS Thunder Bay, 1081 Barton Street. Thunder Bay, ON P7B 5N3
 Ph: 807-623-6463 Fax: 807-623-7598 Toll-Free 1-800-668-9878

DRINKING WATER CHAIN OF CUSTODY

PLEASE CIRCLE APPLICABLE REGULATION:

Reg 170/03

Reg 318/08 319/08

Reg 243

C of A

Is this a resample from an adverse water quality incident? Yes No

| WORKS NAME | | WORKS PHONE | | ANALYSES REQUESTED | | | | | | | | | | | | FOR LAB USE ONLY | | | | |
|---|--|--|-------------|--|--|-----------------|----------------------|---------------------|-------------------|--------|----------|-----------|------|------------|--------|------------------|----------------|-------|-----------|------------|
| RRDSB - McCrosson-Tavell School | | School: 807-488-5587 Sherri: 807-275-4979 | | Please indicate test for each sample by Checkmark in the box below | | | | | | | | | | | | L2078066-M | | | | |
| CLIENT CONTACT NAME | | WORKS FAX | | Total Coliform/E. coli (TC/EC) | Het. Plate Count (HPC) | Nitrate/Nitrite | THM (Max. Res. Time) | Sched 23 Inorganics | Sched 24 Organics | Sodium | Fluoride | Turbidity | Lead | Alkalinity | Other: | Field pH | SUBMISSION NO. | | | |
| Travis Enge | | School: 807-488-5737 Admin: 807-274-5078 | | | | | | | | | | | | | | | L2078071-1 | | | |
| WORKS ADDRESS(physical) | | AFTER HOURS PHONE | | LOGGED BY | | | | | | | | | | | | | | | | |
| Site 2, Box 1, Sleeman, ON, P0W 1M0 | | Peter: 807-275-6762 Travis: 807-276-4733 | | MM | | | | | | | | | | | | | | | | |
| REPORTING ADDRESS | | HEALTH UNIT | | DATE | | | | | | | | | | | | | | | | |
| 522 Second St. E., Fort Frances, ON, P9A 1N4 | | NWDHU | | 10 April 18 | | | | | | | | | | | | | | | | |
| WORKS/DWIS/SDWS NUMBER | | HEALTH UNIT | | TIME | | | | | | | | | | | | | | | | |
| 260009789 / 500124814 | | Kenora: 807-468-3147/807-468-3914 Fort Frances: 807-274-9827/807-274-0779 | | 1544 | | | | | | | | | | | | | | | | |
| EMAIL: | | Requested Service (Circle One) | | TEMPERATURE AT RECEIPT (C) | | | | | | | | | | | | | | | | |
| sherri.belluz@mail.rrdsb.com peter.gardiman@mail.rrdsb.com | | Reg <input checked="" type="radio"/> Pri (50%) Emerg (100%) | | 9.4 | | | | | | | | | | | | | | | | |
| SAMPLE DESCRIPTION | | Chlorine Residual mg/L | Sample Date | Sample Time | Regulated Sample Type * (R,T,D,P, PS,PF) | | | | | | | | | | | | | pH <2 | Volume IL | Time Check |
| (This description will appear on the report) | | | | | | | | | | | | | | | | | | | | |
| DISTRIBUTED Nurse Room | | 0.05 | 04/09/2018 | 11:30am | D | X | X | | | | | | | | | | | | | |
| RAW Mechanical Room | | / | 04/09/2018 | 11:35am | R | X | | | | | | | | | | | | | | |
| TREATED Mechanical Room | | 0.05 | 04/09/2018 | 11:40am | T | | X | | | | | | | | | | | | | |

* Sample Type Legend: R - Raw Water T - Treated Source D - Distribution Sample P - Plumbing PS - Plumbing Standing PF - Plumbing Flushed

| | | | | | |
|--|---|--|--|-------------------------|-------------|
| SAMPLED BY (PRINT): Matthew Koun | SAMPLED BY (SIGNATURE): <i>Matthew Koun</i> | DATE/TIME RECEIVED AT LAB: April 10/18 3:12 | Other Comments/Cautions (Please identify known or suspected hazards) Qty Tray | CHECK TO LIST ON REPORT | |
| SUBMITTED TO LAB BY (PRINT): Matthew Koun | SUBMITTED TO LAB BY (SIGNATURE): <i>Matthew Koun</i> | RECEIVED AT LAB BY: <i>K</i> | | Chlorine Residual(s) | Field pH(s) |