



Rainy River District School Board
ATTN: Travis Enge
RE: MINE CENTRE
522 2ND ST EAST
FORT FRANCES ON P9A 1N4

Date Received: 21-SEP-17
Report Date: 28-SEP-17 10:40 (MT)
Version: FINAL

Client Phone: 807-275-6762

Certificate of Analysis

Lab Work Order #: L1995140
Project P.O. #: MINE CENTRE
Job Reference: 260015002
C of C Numbers:
Legal Site Desc:



Christina Shepherd
Account Manager

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ANALYTICAL GUIDELINE REPORT

260015002

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits							
Grouping	Analyte						#1	#2						
L1995140-2 -D1 KINDERGARTEN RM DIST														
Sampled By: CG on 20-SEP-17 @ 08:00														
Matrix: DISTRIBUTION														
Bacteriological Tests														
Escherichia Coli		0		0	MPN/100m L	21-SEP-17	0							
Heterotrophic Plate Count		4		0	CFU/mL	21-SEP-17								
Total Coliforms		0		0	MPN/100m L	21-SEP-17	0							

** 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.1,2017 = [Suite] - ON-DW-STANDARD+GUIDELINES

#1: Schedule 1 (Microbiological) and 2 (Chemical) Standards (JAN,2017)

#2: Ontario DW Aesthetic and Operational Guidelines

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
HPC-PP-TB	Water	Heterotrophic Plate Count by Pour Plate	APHA 9215B (modified)
Heterotrophic Plate Count in aqueous matrices are analyzed using aerobic incubation and pour plate method and incubated for 48 hours.			
HPC-PP-TB	Water	Heterotrophic Plate Count by Pour Plate	APHA 9215D (modified)
Heterotrophic Plate Count in aqueous matrices are analyzed using aerobic incubation and pour plate method and incubated for 48 hours.			
TC,EC-QT51-TB	Water	Total Coliform and E.coli	APHA 9223 B

This analysis is carried out using procedures adapted from APHA Method 9223 "Enzyme Substrate Coliform Test". E. coli and Total Coliform are determined simultaneously. The sample is mixed with a mixture of hydrolyzable substrates and then sealed in a multi-well packet. The packet is incubated for 18 or 24 hours and then the number of wells exhibiting a positive response are counted. The final result is obtained by comparing the positive responses to a probability table.

*** 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: L1995140

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Client: Rainy River District School Board
RE: MINE CENTRE 522 2ND ST EAST
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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HPC-PP-TB								
	Water							
Batch	R3836582							
WG2621774-2	DUP	L1995156-9						
Heterotrophic Plate Count		0	1	J	CFU/mL	1	2	21-SEP-17
WG2621774-1	MB							
Heterotrophic Plate Count			0		CFU/mL		1	21-SEP-17
TC,EC-QT51-TB								
	Water							
Batch	R3835640							
WG2621824-1	MB							
Total Coliforms			0		MPN/100mL		1	21-SEP-17
Escherichia Coli			0		MPN/100mL		1	21-SEP-17

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Contact: Travis Enge

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
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J	Duplicate results and limits are expressed in terms of absolute difference.
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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.



L1995140-COFC

At's Theater Bay, 1081 Barton Street, Theater Bay, 301278 013
Ph: 807-623-6403 Fax: 807-623-7598 Toll Free: 1-800-608-9878

DRINKING WATER CHAIN OF CUSTODY

Reg 170/03

PLEASE CIRCLE APPLICABLE REGULATION:
Reg 318/08 Reg 319/08 Reg 243

Reg 243

C of A

Is this a resample from an adverse water quality monitoring? Yes () No (X)

WORKS TANK Mine Centre School RICHESB

WORKS TANK Mine Centre School RICHESB

ANALYSIS REQUESTED

FOR LABOR USE

TAHUIS ENGE

WORKS ADDRESS 4123 Mine Centre Rd. Box 1123 Mine Centre ON P0W 1H0

WORKS ADDRESS 522 Second St. East, Fort Frances ON P9A 1N4

WORKS ADDRESS 260015002

WORKS ADDRESS 522 Second St. East, Fort Frances ON P9A 1N4

SAMPLE DESCRIPTION

(this description will appear on the report)

#1 Kindergarten Am. Dusts

11/17 school 8:00am

D

- 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

10/11/17 14:53 10/11/17 10:1

ANALYSIS REQUESTED

SAMPLE DESCRIPTION

Sample Type Legend: R - Raw Water; I - Treated Source; D - Distribution

ANALYSIS REQUESTED

CHECK TO LIST OR

C Gustafson

C Gustafson

09/21/13 13:50

collect via courier

91 PPHI Chlorine Residual

C Gustafson

C Gustafson

09/21/13 13:50

collect via courier

91 PPHI Chlorine Residual

Signature