



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

Date Received: 03-MAY-18  
Report Date: 07-MAY-18 14:58 (MT)  
Version: FINAL

Client Phone: 807-275-6762

## Certificate of Analysis

Lab Work Order #: L2088789  
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						
L2088789-1	-R1 1 MECHANICAL RM RAW													
Sampled By: CG on 02-MAY-18 @ 08:25														
Matrix: RAW WATER														
<b>Bacteriological Tests</b>														
Escherichia Coli		0		0	MPN/100m L	03-MAY-18	0							
Total Coliforms		0		0	MPN/100m L	03-MAY-18	0							
L2088789-2	-D1 2 KINDERGARTEN RM DIST													
Sampled By: CG on 02-MAY-18 @ 08:35														
Matrix: DISTRIBUTION														
<b>Bacteriological Tests</b>														
Escherichia Coli		0		0	MPN/100m L	03-MAY-18	0							
Heterotrophic Plate Count		3		0	CFU/mL	03-MAY-18								
Total Coliforms		0		0	MPN/100m L	03-MAY-18	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.1,2018 = [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***
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.

TC,EC-QT97-TB	Water	Total Coliform and E.coli	APHA 9223 B
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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: L2088789

Report Date: 07-MAY-18

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

Contact: Travis Enge

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>HPC-PP-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R4033718</b>							
<b>WG2764349-2</b>	<b>DUP</b>	<b>L2088838-4</b>						
Heterotrophic Plate Count		0	0		CFU/mL	0.0	65	03-MAY-18
<b>WG2764349-1</b>	<b>MB</b>							
Heterotrophic Plate Count			0		CFU/mL		1	03-MAY-18
<b>TC,EC-QT51-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R4033115</b>							
<b>WG2764388-1</b>	<b>MB</b>							
Total Coliforms			0		MPN/100mL		1	03-MAY-18
Escherichia Coli			0		MPN/100mL		1	03-MAY-18
<b>TC,EC-QT97-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R4033078</b>							
<b>WG2764197-2</b>	<b>DUP</b>	<b>L2088633-1</b>						
Total Coliforms		0	0		MPN/100mL	0.0	65	03-MAY-18
Escherichia Coli		0	0		MPN/100mL	0.0	65	03-MAY-18
<b>WG2764197-1</b>	<b>MB</b>							
Total Coliforms			0		MPN/100mL		1	03-MAY-18
Escherichia Coli			0		MPN/100mL		1	03-MAY-18

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## Legend:

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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

## 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.

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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.



L2088789-COFC

# 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 re-sample from an adverse water quality incident? Yes  No

At: 5 Thunder Bay, 1081 Barton Street, Thunder Bay, ON P7B 5N3  
Tel: 807-623-6464 Fax: 807-623-7508 Toll-free: 1-800-668-9878

WORKS NAME		WORKS PHONE		ANALYSES REQUESTED													LABORATORY					
RRDSB - Mine Centre School		School: 807-599-2843 Sherril: 807-275-4979		Please indicate test for each sample by Checkmark in the line below													L2088783-M					
CLIENT CONTACT NAME		WORKS FAX															SUBMISSION NO.					
Travis Enge		School: 807-599-9911 Admin: 807-274-5078															L2088789-M					
WORKS ADDRESS(physical)		AFTER HOURS PHONE															COLLECTED BY					
173 Mine Centre Road, Mine Centre, ON, P0W 1H0		Peter: 807-275-6762 Travis: 807-276-4733															MM					
REPORTING ADDRESS		HEALTH UNIT															DATE					
522 Second St. E., Fort Frances, ON, P9A 1N4		NWDHJ															3 May 18					
WORKS/IWS/SOWS NUMBER		HEALTH UNIT															TIME					
260015002		Kenora: 807-468-3147/807-468-3914 Fort Frances: 807-274-9827/807-274-0779															1522					
EMAIL: sherril.hellozo@mail.rrdsb.com peter.gardiman@mail.rrdsb.com		Requested Service (Circle One)															TEMPERATURE AT RECEIPT (°C)					
		Reg <input checked="" type="checkbox"/> (50%) Emerg (100%)															9.6°					
SAMPLE DESCRIPTION		Chlorine Residual (mg/L)	Sample Date	Sample Time	Regulated Sample Type * (R, T, D, P, PS, PF)	Total Coliform/E. coli (TC/EC)	Het. Plate Count (HPC)	Nitrate/Nitrite	TAM (Max. Res. Time)	Sched 23 Inorganics	Sched 24 Organics	Sodium	Fluoride	Turbidity	Lead	Alkalinity	Other	Field pH	pH ±2	Volume (L)	Time (Clock)	
#1 mechanical Rm. RAW.		N/A	MAY 2/18	8:25AM	R	X																
#2 Kindergarten Rm. Dist.		N/A	MAY 2/18	8:35AM	D	X	X															
#3 mechanical Rm Valve #26		N/A	MAY 2/18	8:30AM	T		X															
Treated Source																						

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

SAMPLED BY (PRINT)	SAMPLED BY (SIGNATURE)	DATE/TIME RECEIVED AT LAB	Other Comments/Concerns (Please identify known or suspected hazards)	CHECK TO LIST ON REPORT
C. Gustafson	<i>C. Gustafson</i>	2018 May 3 2:03		Chlorine Residuals
SUBMITTED TO LAB BY (PRINT)	SUBMITTED TO LAB BY (SIGNATURE)	RECEIVED AT LAB BY:		Field pH(s)
C. Gustafson	<i>C. Gustafson</i>	<i>[Signature]</i>		

MM  
MM