



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

Date Received: 03-OCT-17  
Report Date: 11-OCT-17 10:01 (MT)  
Version: FINAL

Client Phone: 807-275-6762

## Certificate of Analysis

Lab Work Order #: L2001396  
Project P.O. #: NOT SUBMITTED  
Job Reference: 260009802  
C of C Numbers:  
Legal Site Desc:

Christina Shepherd  
Account Manager

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# ANALYTICAL GUIDELINE REPORT

260009802

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits							
Grouping	Analyte						#1	#2						
L2001396-1	~D1 DISTRIBUTED SR CLASSROOM													
Sampled By: CD on 02-OCT-17 @ 09:45														
Matrix: Distribution														
<b>Bacteriological Tests</b>														
Escherichia Coli		0		0	MPN/100m L	03-OCT-17	0							
Heterotrophic Plate Count		1		0	CFU/mL	03-OCT-17								
Total Coliforms		0		0	MPN/100m L	03-OCT-17	0							
L2001396-2	~R1 RAW MECH ROOM													
Sampled By: CD on 02-OCT-17 @ 09:49														
Matrix: Raw Water														
<b>Bacteriological Tests</b>														
Escherichia Coli		>2420		0	MPN/100m L	03-OCT-17	*0							
Total Coliforms		>2420		0	MPN/100m L	03-OCT-17	*0							
L2001396-3	~E1 TREATED MECH ROOM													
Sampled By: CD on 02-OCT-17 @ 09:47														
Matrix: Treated Water														
<b>Anions and Nutrients</b>														
Nitrate and Nitrite as N		<0.040		0.040	mg/L	05-OCT-17	10.0							
Nitrate (as N)		0.021		0.020	mg/L	04-OCT-17	10							
Nitrite (as N)		<0.010		0.010	mg/L	04-OCT-17	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.1,2017 = [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***
ETL-N2N3-TB	Water	Calculate from NO2 + NO3	Calculation
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.			
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.			
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
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: L2001396

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Client: Rainy River District School Board  
Nestor Falls 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>R3847458</b>							
<b>WG2631134-2</b>	<b>DUP</b>	<b>L2001433-1</b>						
Heterotrophic Plate Count		74	84		CFU/mL	13	65	03-OCT-17
<b>WG2631134-1</b>	<b>MB</b>							
Heterotrophic Plate Count			0		CFU/mL		1	03-OCT-17
<b>NO2-DW-IC-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R3846871</b>							
<b>WG2631919-6</b>	<b>LCS</b>							
Nitrite (as N)			100.6		%		90-110	04-OCT-17
<b>WG2631919-5</b>	<b>MB</b>							
Nitrite (as N)			<0.010		mg/L		0.01	04-OCT-17
<b>NO3-DW-IC-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R3846871</b>							
<b>WG2631919-6</b>	<b>LCS</b>							
Nitrate (as N)			99.7		%		90-110	04-OCT-17
<b>WG2631919-5</b>	<b>MB</b>							
Nitrate (as N)			<0.020		mg/L		0.02	04-OCT-17
<b>TC,EC-QT51-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R3846223</b>							
<b>WG2631263-1</b>	<b>MB</b>							
Total Coliforms			0		MPN/100mL		1	03-OCT-17
Escherichia Coli			0		MPN/100mL		1	03-OCT-17
<b>TC,EC-QT97-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R3846298</b>							
<b>WG2631228-2</b>	<b>DUP</b>	<b>L2001380-1</b>						
Total Coliforms		411	613		MPN/100mL	39	65	03-OCT-17
Escherichia Coli		11	4	G	MPN/100mL	93	65	03-OCT-17
<b>WG2631228-1</b>	<b>MB</b>							
Total Coliforms			0		MPN/100mL		1	03-OCT-17
Escherichia Coli			0		MPN/100mL		1	03-OCT-17

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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

## Sample Parameter Qualifier Definitions:

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Qualifier	Description
G	QC result did not meet ALS DQO. Refer to narrative comments for further information.

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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.

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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.



L2001396-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 resample from an adverse water quality incident? Yes  No

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

WORKS NAME		WORKS PHONE		ANALYSES REQUESTED												FOR LAB USE ONLY				
RRDSB - Nestor Falls School		School: 807-484-2101 Sherril: 807-275-4979		Please indicate test for each sample by Checkmark in the box below												SUBMISSION NO. L2001396				
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	LOGGED BY JRB			
Travis Enge		School: 807-484-2222 Admin: 807-274-5078															DATE 10/3/17			
WORKS ADDRESS(physical)		AFTER HOURS PHONE															TIME 15:29			
School Road, Nestor Falls, ON, P0X 1K0		Peter: 807-275-6762 Travis: 807-276-4733															TEMPERATURE AT RECEIPT (C) 10.6			
REPORTING ADDRESS		HEALTH UNIT																		
522 Second St. E., Fort Frances, ON, P9A 1N4		NWDHU																		
WORKS/DWIS/SDWS NUMBER		HEALTH UNIT																		
260009802 / 500124983		Kenora: 807-468-3147/807-468-3914 PHONE/FAX Fort Frances: 807-274-9827/807-274-0779																		
EMAIL: sherril.belluz@mail.rrdsb.com peter.gardiman@mail.rrdsb.com		Requested Service (Circle One)																		
		Reg Pri (50%) Emerg (100%)																		
SAMPLE DESCRIPTION		Chlorine Residual mg/L	Sample Date	Sample Time	Regulated Sample Type (R,T,D,P, PS,PF)															
(This description will appear on the report)																				
DISTRIBUTED	SR CLASSROOM 220		Oct 2/17	9:45 AM	D	X	X													
RAW	MECH. ROOM		Oct 2/17	9:49 AM	R	X														
TREATED	MECH. ROOM 220		Oct 2/17	9:47 AM	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): CHARLES DESCAMPS	SAMPLED BY SIGNATURE: Charles Descamps	DATE/TIME RECEIVED AT LAB: 3-Oct-17 14:40	Other Comments/Cautions (Please identify known or suspected hazards):	CHECK TO LIST ON REPORT Chlorine Residual(s) Field pH(s)
SUBMITTED TO LAB BY (PRINT): CHARLES DESCAMPS	SUBMITTED TO LAB BY SIGNATURE: Charles Descamps	RECEIVED AT LAB BY: [Signature]	Quany Tray	