




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

Date Received: 06-DEC-17
Report Date: 08-DEC-17 12:20 (MT)
Version: FINAL

Client Phone: 807-275-6762

Certificate of Analysis

Lab Work Order #: L2031265
Project P.O. #: NOT SUBMITTED
Job Reference: 260009776
C of C Numbers:
Legal Site Desc:



Christina Shepherd
Account Manager

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ANALYTICAL GUIDELINE REPORT

260009776

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits							
Grouping	Analyte						#1	#2						
L2031265-1 ~D1 DISTRIBUTED STAFFROOM Sampled By: MK on 04-DEC-17 @ 13:39 Matrix: Distribution														
Bacteriological Tests														
	Escherichia Coli	0		0	MPN/100m L	06-DEC-17	0							
	Heterotrophic Plate Count	0		0	CFU/mL	06-DEC-17								
	Total Coliforms	0		0	MPN/100m L	06-DEC-17	0							
L2031265-2 ~R1 RAW MECHANICAL ROOM Sampled By: MK on 04-DEC-17 @ 13:46 Matrix: Raw Water														
Bacteriological Tests														
	Escherichia Coli	0		0	MPN/100m L	06-DEC-17	0							
	Total Coliforms	0		0	MPN/100m L	06-DEC-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.

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: L2031265

Report Date: 08-DEC-17

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Client: Rainy River District School Board
Re: Crossroads School 522 2ND ST EAST
FORT FRANCES ON P9A 1N4

Contact: Travis Enge

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HPC-PP-TB								
	Water							
Batch	R3907188							
WG2678459-2	DUP	L2031258-2						
Heterotrophic Plate Count		0	0		CFU/mL	0.0	65	06-DEC-17
WG2678459-1	MB							
Heterotrophic Plate Count			0		CFU/mL		1	06-DEC-17
TC,EC-QT51-TB								
	Water							
Batch	R3906289							
WG2678444-1	MB							
Total Coliforms			0		MPN/100mL		1	06-DEC-17
Escherichia Coli			0		MPN/100mL		1	06-DEC-17
TC,EC-QT97-TB								
	Water							
Batch	R3906303							
WG2678446-2	DUP	L2031265-2						
Total Coliforms		0	0		MPN/100mL	0.0	65	06-DEC-17
Escherichia Coli		0	0		MPN/100mL	0.0	65	06-DEC-17
WG2678446-1	MB							
Total Coliforms			0		MPN/100mL		1	06-DEC-17
Escherichia Coli			0		MPN/100mL		1	06-DEC-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

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.



L2031265-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 RRDSB - Crossroads School		WORKS PHONE School: 807-486-3329 Sherr: 807-275-4979		ANALYSES REQUESTED Please indicate test for each sample by Checkmark in the box below										FOR LAB USE ONLY					
CLIENT CONTACT NAME Travis Enge		WORKS FAX School: 807-486-1268 Admin: 807-274-5078		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. L2031265		
WORKS ADDRESS(physical) Hwy 613 North, Devlin, ON, P0W 1C0		AFTER HOURS PHONE Peter: 807-275-6762 Travis: 807-276-4733															LOGGED BY LS		
REPORTING ADDRESS 522 Second St. E., Fort Frances, ON, P9A 1N4		HEALTH UNIT NWDHU		DATE 12/06/12			TIME 1:40			TEMPERATURE AT RECEIPT (C) 8.2									
WORKS/DWIS/SDWS NUMBER 260009776 / 500141857		HEALTH UNIT Kenora: 807-468-3147/807-468-3914 PHONE/FAX Fort Frances: 807-274-9827/807-274-0779		Regulated Sample Type* (R,T,D,P, PS,PF)			pH <2	Volume 1L	Time Check										
EMAIL: sherr.belluz@mail.rrdsb.com peter.gardiman@mail.rrdsb.com		Requested Service (Circle One) Reg Pri (50%) Emerg (100%)																	
SAMPLE DESCRIPTION (This description will appear on the report)		Chlorine Residual mg/L	Sample Date	Sample Time															
DISTRIBUTED (STAFFROOM)		0.28	Dec 4 th /17	1:39 pm	D	X	X												
RAW (MECHANICAL ROOM)		/	Dec 4 th /17	1:46 pm	R	X													
SAMPLED BY (PRINT): Matthew Kawn		SAMPLED BY (SIGNATURE): <i>Matthew Kawn</i>		DATE/TIME RECEIVED AT LAB: 12/06/12 9:30		Other Comments/Cautions (Please identify known or suspected hazards) Quanty Tray										CHECK TO LIST ON REPORT			
SUBMITTED TO LAB BY (PRINT): Matthew Kawn		SUBMITTED TO LAB BY (SIGNATURE): <i>Matthew Kawn</i>		RECEIVED AT LAB BY: LS												Chlorine Residual(s)			
																Field pH(s)			

LS



L2031265-COFC

DRINKING WATER CHAIN OF CUSTODY

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C of A

Is this a resample from an adverse water quality incident? Yes

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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 - Crossroads School		School: 807-486-3329 Sherri: 807-275-4979		Please indicate test for each sample by Checkmark in the box below													SUBMISSION NO.							
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							
Travis Enge		School: 807-486-1268 Admin: 807-274-5078															TEMPERATURE AT RECEIPT [C]							
WORKS ADDRESS(physical)		AFTER HOURS PHONE															pH <2			Volume FL			Time Check	
Travis Enge		Peter: 807-275-6762 Travis: 807-276-4733		8.7																				
REPORTING ADDRESS		HEALTH UNIT															DATE							
522 Second St. E., Fort Frances, ON, P9A 1N4		NWDHU															12/06/12							
WORKS/DWIS/SDWS NUMBER		HEALTH UNIT															TIME							
260009776 / 500141857		Kenora: 807-468-3147/807-468-3914 Fort Frances: 807-274-9827/807-274-0779															a: 40							
EMAIL		Requested Service (Circle One)																						
sherri.belluz@mail.rrdsb.com peter.gardiman@mail.rrdsb.com		<u>Reg</u> 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 (STAFFROOM)		0.28	Dec 4 th /17	1:39 pm	D	X	X																	
RAW (MECHANICAL ROOM)		/	Dec 4 th /17	1:46 pm	R	X																		
* 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/Cautions (Please identify known or suspected hazards)													CHECK TO LIST ON REPORT					
Matthew Kawn				12/06/12 9:30		Quarry Tray													Chlorine Residual(s)					
SUBMITTED TO LAB BY (PRINT):		SUBMITTED TO LAB BY (SIGNATURE):		RECEIVED AT LAB BY:															Field pH(s)					
Matthew Kawn				LS																				