



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

Date Received: 07-NOV-17
Report Date: 10-NOV-17 10:00 (MT)
Version: FINAL

Client Phone: 807-275-6762

Certificate of Analysis

Lab Work Order #: L2018977
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				
L2018977-1 ~D1 DISTRIBUTED STAFFROOM Sampled By: MK on 06-NOV-17 @ 14:05 Matrix: Distribution							#1	#2				
Bacteriological Tests												
	Escherichia Coli	0		0	MPN/100m L	07-NOV-17	0					
	Heterotrophic Plate Count	2		0	CFU/mL	07-NOV-17						
	Total Coliforms	0		0	MPN/100m L	07-NOV-17	0					
L2018977-2 ~R1 RAW MECHANICAL ROOM Sampled By: MK on 06-NOV-17 @ 14:08 Matrix: Raw Water							#1	#2				
Bacteriological Tests												
	Escherichia Coli	0		0	MPN/100m L	07-NOV-17	0					
	Total Coliforms	0		0	MPN/100m L	07-NOV-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: L2018977

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Client: Rainy River District School Board
Crossroads School 522 2ND ST EAST
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Contact: Travis Enge

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HPC-PP-TB								
	Water							
Batch	R3880141							
WG2659009-2	DUP	L2019349-1						
Heterotrophic Plate Count		6	8		CFU/mL	29	65	07-NOV-17
WG2659009-1	MB							
Heterotrophic Plate Count			0		CFU/mL		1	07-NOV-17
TC,EC-QT51-TB								
	Water							
Batch	R3878926							
WG2658910-1	MB							
Total Coliforms			0		MPN/100mL		1	07-NOV-17
Escherichia Coli			0		MPN/100mL		1	07-NOV-17
TC,EC-QT97-TB								
	Water							
Batch	R3878689							
WG2658773-2	DUP	L2018927-2						
Total Coliforms		0	0		MPN/100mL	0.0	65	07-NOV-17
Escherichia Coli		0	0		MPN/100mL	0.0	65	07-NOV-17
WG2658773-1	MB							
Total Coliforms			0		MPN/100mL		1	07-NOV-17
Escherichia Coli			0		MPN/100mL		1	07-NOV-17

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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

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.



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

Date Received: 08-NOV-17
Report Date: 14-NOV-17 13:29 (MT)
Version: FINAL

Client Phone: 807-275-6762

Certificate of Analysis

Lab Work Order #: L2019801
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				
L2019801-1 ~D1 DISTRIBUTED STAFFROOM Sampled By: CD on 07-NOV-17 @ 14:25 Matrix: Distribution							#1	#2				
Bacteriological Tests												
	Escherichia Coli	0		0	MPN/100m L	08-NOV-17	0					
	Heterotrophic Plate Count	1		0	CFU/mL	08-NOV-17						
	Total Coliforms	0		0	MPN/100m L	08-NOV-17	0					
L2019801-2 ~R1 RAW MECHANICAL ROOM Sampled By: CD on 07-NOV-17 @ 14:21 Matrix: Raw Water							#1	#2				
Bacteriological Tests												
	Escherichia Coli	0		0	MPN/100m L	08-NOV-17	0					
	Total Coliforms	0		0	MPN/100m L	08-NOV-17	0					

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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

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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.

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

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Quality Control Report

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 FORT FRANCES ON P9A 1N4

Contact: Travis Enge

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HPC-PP-TB								
	Water							
Batch	R3880988							
WG2659983-2	DUP	L2019914-2						
Heterotrophic Plate Count		5	3		CFU/mL	50	65	08-NOV-17
WG2659983-1	MB							
Heterotrophic Plate Count			0		CFU/mL		1	08-NOV-17
TC,EC-QT51-TB								
	Water							
Batch	R3879651							
WG2659896-1	MB							
Total Coliforms			0		MPN/100mL		1	08-NOV-17
Escherichia Coli			0		MPN/100mL		1	08-NOV-17
TC,EC-QT97-TB								
	Water							
Batch	R3879710							
WG2659902-2	DUP	L2019543-1						
Total Coliforms		4	13	G	MPN/100mL	106	65	08-NOV-17
Escherichia Coli		0	0		MPN/100mL	0.0	65	08-NOV-17
WG2659902-1	MB							
Total Coliforms			0		MPN/100mL		1	08-NOV-17
Escherichia Coli			0		MPN/100mL		1	08-NOV-17

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

Hold Time Exceedances:

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