



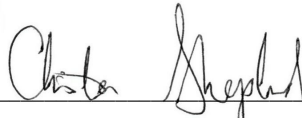
Rainy River District School Board
ATTN: Rainy River District School Board
Re: Robert Moore School
522 2ND ST EAST
FORT FRANCES ON P9A 1N4

Date Received: 16-NOV-17
Report Date: 21-NOV-17 11:46 (MT)
Version: FINAL

Client Phone: 807-275-6762

Certificate of Analysis

Lab Work Order #: L2023408
Project P.O. #: NOT SUBMITTED
Job Reference: 500045592
C of C Numbers:
Legal Site Desc:



Christina Shepherd
Account Manager

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ANALYTICAL GUIDELINE REPORT

500045592

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits								
L2023408-1	~P1 TEACHER COUNTER KITCHEN SINK ROOM 158 RMS RM 158 5MIN														
Sampled By: MK on 25-OCT-17 @ 06:13							#1	#2							
Matrix: Plumbing Standing															
Total Metals															
Lead (Pb)-Total							<1.0	1.0	ug/L	20-NOV-17	10				
L2023408-2	~P2 TEACHER COUNTER KITCHEN SINK ROOM 158 RMS RM 158 5MIN														
Sampled By: MK on 25-OCT-17 @ 06:53							#1	#2							
Matrix: Plumbing Flushed															
Total Metals															
Lead (Pb)-Total							<1.0	1.0	ug/L	20-NOV-17	10				
L2023408-3	~P1 TEACHER COUNTER KITCHEN SINK ROOM 157 RMS 2A														
Sampled By: MK on 25-OCT-17 @ 06:11							#1	#2							
Matrix: Plumbing Standing															
Total Metals															
Lead (Pb)-Total							<1.0	1.0	ug/L	20-NOV-17	10				
L2023408-4	~P2 TEACHER COUNTER KITCHEN SINK ROOM 157 RMS 2A														
Sampled By: MK on 25-OCT-17 @ 06:51							#1	#2							
Matrix: Plumbing Flushed															
Total Metals															
Lead (Pb)-Total							<1.0	1.0	ug/L	20-NOV-17	10				
L2023408-5	~P1 TEACHER COUNTER KITCHEN SINK ROOM 150 RMS 3A														
Sampled By: MK on 25-OCT-17 @ 06:12							#1	#2							
Matrix: Plumbing Standing															
Total Metals															
Lead (Pb)-Total							<1.0	1.0	ug/L	20-NOV-17	10				
L2023408-6	~P2 TEACHER COUNTER KITCHEN SINK ROOM 150 RMS 3A														
Sampled By: MK on 25-OCT-17 @ 06:52							#1	#2							
Matrix: Plumbing Flushed															
Total Metals															
Lead (Pb)-Total							<1.0	1.0	ug/L	20-NOV-17	10				
L2023408-7	~P1 TEACHER COUNTER KITCHEN SINK ROOM 149 RMS 4A														
Sampled By: MK on 25-OCT-17 @ 06:10							#1	#2							
Matrix: Plumbing Standing															
Total Metals															
Lead (Pb)-Total							<1.0	1.0	ug/L	20-NOV-17	10				
L2023408-8	~P2 TEACHER COUNTER KITCHEN SINK ROOM 149 RMS 4A														
Sampled By: MK on 25-OCT-17 @ 06:50							#1	#2							
Matrix: Plumbing Flushed															
Total Metals															
Lead (Pb)-Total							<1.0	1.0	ug/L	20-NOV-17	10				

** 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***
MET-DW-MS-TB	Water	Drinking Water Metals	APHA 3030E/EPA 6020A

Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

*** 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: L2023408

Report Date: 21-NOV-17

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

Contact: Rainy River District School Board

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DW-MS-TB								
	Water							
Batch	R3891228							
WG2666915-12	DUP	L2023409-6						
Lead (Pb)-Total		<1.0	<1.0	RPD-NA	ug/L	N/A	20	20-NOV-17
WG2666915-10	LCS							
Lead (Pb)-Total			102.2		%		80-120	20-NOV-17
WG2666915-9	MB							
Lead (Pb)-Total			<1.0		ug/L		1	20-NOV-17
WG2666915-11	MS	L2023409-6						
Lead (Pb)-Total			94.2		%		70-130	20-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
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

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.



L2023408-COFC

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

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

WORKS NAME		WORKS PHONE		ANALYSES REQUESTED												FOR LAB USE ONLY					
RRDSB - Robert Moore School		School: 807-274-9818 Sherril: 807-275-4979		Please indicate test for each sample by Checkmark in the box below												SUBMISSION NO. L2023408					
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 LS				
Travis Enge		School: 807-274-3831 Admin: 807-274-5078															DATE 11/16/17				
WORKS ADDRESS(physical)		AFTER HOURS PHONE		TEMPERATURE AT RECEIPT (C) 4.5			DATE 11/16/17			TIME 15:50			TEMPERATURE AT RECEIPT (C) 4.5								
528 Second St. East, Fort Frances, ON, P9A 1N4		Peter: 807-275-6762 Travis: 807-276-4733		HEALTH UNIT NWDHU			HEALTH UNIT Kenora: 807-468-3147/807-468-3914			HEALTH UNIT Fort Frances: 807-274-9827/807-274-0779			DATE 11/16/17			TIME 15:50					
REPORTING ADDRESS		HEALTH UNIT		Regulated Sample Type (R, T, D, P, PS, PF)			Sodium			Fluoride			Turbidity			Lead					
522 Second St. E., Fort Frances, ON, P9A 1N4		NWDHU		Requested Service (Circle One) Reg Pri (50%) Emerg (100%)			Sodium			Fluoride			Turbidity			Lead					
WORKS/DWIS/SDWS NUMBER		HEALTH UNIT		Regulated Sample Type (R, T, D, P, PS, PF)			Sodium			Fluoride			Turbidity			Lead					
500045592		Kenora: 807-468-3147/807-468-3914 Fort Frances: 807-274-9827/807-274-0779		Regulated Sample Type (R, T, D, P, PS, PF)			Sodium			Fluoride			Turbidity			Lead					
EMAIL: sherril.belluz@mail.rrdsb.com peter.gardman@mail.rrdsb.com		Requested Service (Circle One) Reg Pri (50%) Emerg (100%)		Regulated Sample Type (R, T, D, P, PS, PF)			Sodium			Fluoride			Turbidity			Lead					
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	THM (Max. Res. Time)	Sched 23 Inorganics	Sched 24 Organics	Sodium	Fluoride	Turbidity	Lead	Alkalinity	Other:	Field pH	pH <2	Volume lL	Time Check
(This description will appear on the report)																					
Teacher counter kitchen sink room 158 (RMS Rm 158 5Min)			Oct 25/17	6:13am	PS										X				✓	✓	JTR
Teacher counter kitchen sink room 158 (RMS Rm 158 5Min)			Oct 25/17	6:53am	PF										X				✓	✓	JTR
Teacher counter kitchen sink room 157 (RMS 2A)			Oct 25/17	6:11am	PS										X				✓	✓	JTR
Teacher counter kitchen sink room 157 (RMS 2A)			Oct 25/17	6:51am	PF										X				✓	✓	JTR
Teacher counter kitchen sink room 150 (RMS 3A)			Oct 25/17	6:12am	PS										X				✓	✓	JTR
Teacher counter kitchen sink room 150 (RMS 3A)			Oct 25/17	6:52am	PF										X				✓	✓	JTR
Teacher counter kitchen sink room 149 (RMS 4A)			Oct 25/17	6:10am	PS										X				✓	✓	JTR
Teacher counter kitchen sink room 149 (RMS 4A)			Oct 25/17	6:50am	PF										X				✓	✓	JTR
* Sample Type Legend: R - Raw Water T - Treated Source D - Distribution Sample P - Plumbing PS - Plumbing Standing PF - Plumbing Flushed																					
SAMPLED BY (PRINT): Matthew Kaurin		SAMPLED BY (SIGNATURE): <i>Matthew Kaurin</i>		DATE/TIME RECEIVED AT LAB: Nov 16 2017 1:33		Other Comments/Cautions (Please identify known or suspected hazards)												CHECK TO LIST ON REPORT			
SUBMITTED TO LAB BY (PRINT): Matthew Kaurin		SUBMITTED TO LAB BY (SIGNATURE): <i>Matthew Kaurin</i>		RECEIVED AT LAB BY: JTR														Chlorine Residual(s)			
																		Field pH(s)			

LS