



Rainy River District School Board
ATTN: Rainy River District School Board
Re: Fort Frances High School
522 2ND ST EAST
FORT FRANCES ON P9A 1N4

Date Received: 16-NOV-17
Report Date: 23-NOV-17 14:22 (MT)
Version: FINAL

Client Phone: 807-275-6762

Certificate of Analysis

Lab Work Order #: L2023463
Project P.O. #: NOT SUBMITTED
Job Reference: 500045579
C of C Numbers:
Legal Site Desc:

Christina Shepherd
Account Manager

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ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3 Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598
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ANALYTICAL GUIDELINE REPORT

500045579

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2023463-1	~P1 THEATRE HALL FOUNTAIN	FHS 1					#1	#2		
Sampled By: MK on 26-OCT-17 @ 06:17										
Matrix: Plumbing Standing										
Total Metals										
Lead (Pb)-Total		10.3		1.0	ug/L	22-NOV-17	*10			
L2023463-2	~P2 THEATRE HALL FOUNTAIN	FHS 1					#1	#2		
Sampled By: MK on 26-OCT-17 @ 07:12										
Matrix: Plumbing Flushed										
Total Metals										
Lead (Pb)-Total		5.2		1.0	ug/L	22-NOV-17	10			
L2023463-3	~P1 WEST HALL NORTH BOTTLE FILLER	FHS 14 1ST FLOOR					#1	#2		
Sampled By: MK on 26-OCT-17 @ 06:10										
Matrix: Plumbing Standing										
Total Metals										
Lead (Pb)-Total		<1.0		1.0	ug/L	22-NOV-17	10			
L2023463-4	~P2 WEST HALL NORTH BOTTLE FILLER	FHS 14 1ST FLOOR					#1	#2		
Sampled By: MK on 26-OCT-17 @ 06:58										
Matrix: Plumbing Flushed										
Total Metals										
Lead (Pb)-Total		<1.0		1.0	ug/L	22-NOV-17	10			
L2023463-5	~P1 CENTRE BLOCK HALL BOTTLE FILLER	FHS 29 2ND FLOOR					#1	#2		
Sampled By: MK on 26-OCT-17 @ 06:13										
Matrix: Plumbing Standing										
Total Metals										
Lead (Pb)-Total		<1.0		1.0	ug/L	22-NOV-17	10			
L2023463-6	~P2 CENTRE BLOCK HALL BOTTLE FILLER	FHS 29 2ND FLOOR					#1	#2		
Sampled By: MK on 26-OCT-17 @ 07:05										
Matrix: Plumbing Flushed										
Total Metals										
Lead (Pb)-Total		<1.0		1.0	ug/L	22-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.



Environmental

Quality Control Report

Workorder: L2023463

Report Date: 23-NOV-17

Page 1 of 2

Client: Rainy River District School Board
Re: Fort Frances High 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	R3893125							
WG2669378-3	DUP	L2023467-6						
Lead (Pb)-Total		<1.0	<1.0	RPD-NA	ug/L	N/A	20	22-NOV-17
WG2669378-2	LCS							
Lead (Pb)-Total			97.6		%		80-120	22-NOV-17
WG2669378-1	MB							
Lead (Pb)-Total			<1.0		ug/L		1	22-NOV-17
WG2669378-4	MS	L2023467-6						
Lead (Pb)-Total			92.2		%		70-130	22-NOV-17

Quality Control Report

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Page 2 of 2

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.



L2023463-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 - Fort Frances High School		School: 807-274-7747 Sherrri: 807-275-4979		Please indicate test for each sample by Checkmark in the box below												L2023463				
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	SUBMISSION NO.			
Travis Enge		School: 807-274-5171 Admin: 807-274-5078															LOGGED BY			
WORKS ADDRESS(physical)		AFTER HOURS PHONE														L2023463 LS				
440 McIrvine Road, Fort Frances, ON, P9A 3T8		Peter: 807-275-6762 Travis: 807-276-4733														DATE				
REPORTING ADDRESS		HEALTH UNIT														11/16/17				
522 Second St. E., Fort Frances, ON, P9A 1N4		NWDHU														TIME				
WORKS/DWIS/SDWS NUMBER		HEALTH UNIT Kenora: 807-468-3147/807-468-3914														16:15				
500045579		PHONE/FAX Fort Frances: 807-274-9827/807-274-0779														TEMPERATURE AT RECEIPT (C)				
EMAIL: sherri.belluz@mail.rrdsb.com peter.gardiman@mail.rrdsb.com		Requested Service (Circle One)		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	2.9		
		Reg Pri (50%) Emerg (100%)																pH <2		
SAMPLE DESCRIPTION (This description will appear on the report)		Chlorine Residual mg/L	Sample Date	Sample Time													Volume lL	Time Check		
Theatre hall fountain (FHS 1)		/	Oct 26/17	6:17am													/	/		
Theatre hall fountain (FHS 1)		/	Oct 26/17	7:12am													/	/		
West hall North bottle filler (FHS 14) 1st floor		/	Oct 26/17	6:10am													/	/		
West hall North bottle filler (FHS 14) 1st floor		/	Oct 26/17	6:58am													/	/		
Centre block hall bottle filler (FHS 29) 2nd floor		/	Oct 26/17	6:13am													/	/		
Centre block hall bottle filler (FHS 29) 2nd floor		/	Oct 26/17	7:05am													/	/		

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

SAMPLED BY (PRINT): Matthew Kaun	SAMPLED BY (SIGNATURE): <i>Matthew Kaun</i>	DATE/TIME RECEIVED AT LAB: NOV 16 2017 1:35	Other Comments/Cautions (Please identify known or suspected hazards)	CHECK TO LIST ON REPORT
SUBMITTED TO LAB BY (PRINT): Matthew Kaun	SUBMITTED TO LAB BY (SIGNATURE): <i>Matthew Kaun</i>	RECEIVED AT LAB BY: JTR		

BP

LS