



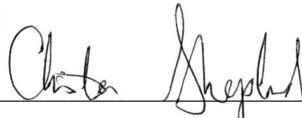
Rainy River District School Board
ATTN: Rainy River District School Board
Re: Atikokan High School
522 2ND ST EAST
FORT FRANCES ON P9A 1N4

Date Received: 16-NOV-17
Report Date: 23-NOV-17 11:30 (MT)
Version: FINAL

Client Phone: 807-275-6762

Certificate of Analysis

Lab Work Order #: L2023672
Project P.O. #: NOT SUBMITTED
Job Reference: 500001145
C of C Numbers:
Legal Site Desc:



Christina Shepherd
Account Manager

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ANALYTICAL GUIDELINE REPORT

500001145

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2023672-1	-P1 WEIGHT ROOM LEFT KITCHEN SINK ROOM 34 AHS 1						#1	#2		
Sampled By: TD on 11-NOV-17 @ 06:07										
Matrix: Plumbing Standing										
Total Metals										
Lead (Pb)-Total		47.1		1.0	ug/L	22-NOV-17	*10			
L2023672-2	-P2 WEIGHT ROOM LEFT KITCHEN SINK ROOM 34 AHS 1						#1	#2		
Sampled By: TD on 11-NOV-17 @ 06:43										
Matrix: Plumbing Flushed										
Total Metals										
Lead (Pb)-Total		22.5		1.0	ug/L	22-NOV-17	*10			
L2023672-3	-P1 WEIGHT ROOM RIGHT KITCHEN SINK RM 34 AHS RM34 5MIN						#1	#2		
Sampled By: TD on 11-NOV-17 @ 06:08										
Matrix: Plumbing Standing										
Total Metals										
Lead (Pb)-Total		27.3		1.0	ug/L	22-NOV-17	*10			
L2023672-4	-P2 WEIGHT ROOM RIGHT KITCHEN SINK RM 34 AHS RM34 5MIN						#1	#2		
Sampled By: TD on 11-NOV-17 @ 06:44										
Matrix: Plumbing Flushed										
Total Metals										
Lead (Pb)-Total		10.9		1.0	ug/L	22-NOV-17	*10			
L2023672-5	-P1 MAIN OFFICE MAIN KITCHEN SINK AHS 7						#1	#2		
Sampled By: TD on 11-NOV-17 @ 06:00										
Matrix: Plumbing Standing										
Total Metals										
Lead (Pb)-Total		69.7		1.0	ug/L	22-NOV-17	*10			
L2023672-6	-P2 MAIN OFFICE MAIN KITCHEN SINK AHS 7						#1	#2		
Sampled By: TD on 11-NOV-17 @ 06:35										
Matrix: Plumbing Flushed										
Total Metals										
Lead (Pb)-Total		10.5		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: L2023672

Report Date: 23-NOV-17

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Client: Rainy River District School Board
Re: Atikokan 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							
WG2669378-8	DUP	L2023672-6						
Lead (Pb)-Total		10.5	10.3		ug/L	1.1	20	22-NOV-17
WG2669378-6	LCS							
Lead (Pb)-Total			95.5		%		80-120	22-NOV-17
WG2669378-5	MB							
Lead (Pb)-Total			<1.0		ug/L		1	22-NOV-17
WG2669378-7	MS	L2023672-6						
Lead (Pb)-Total			91.7		%		70-130	22-NOV-17

Quality Control Report

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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.

