Rainy River District School Board
ATTN: Rainy River District School Board
Re: Donald Young 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 #: L2023467

Project P.O. #: NOT SUBMITTED
Job Reference: 500124931
C of C Numbers:
Legal Site Desc:

Christina Shepherd
Account Manager

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2023467-1	~P1 GYM HALL BOTTLE FILLER DYS 2									
Sampled By:	MK on 28-OCT-17 @ 09:07									
Matrix:	Plumbing Standing						#1	#2		
Total Metals										
	Lead (Pb)-Total	<1.0		1.0	ug/L	22-NOV-17	10			
L2023467-2	~P2 GYM HALL BOTTLE FILLER DYS 2									
Sampled By:	MK on 28-OCT-17 @ 09:52									
Matrix:	Plumbing Flushed						#1	#2		
Total Metals										
	Lead (Pb)-Total	<1.0		1.0	ug/L	22-NOV-17	10			
L2023467-3	~P1 KINDERGARTEN FOUNTAIN ROOM 112 DYS 4									
Sampled By:	MK on 28-OCT-17 @ 09:03									
Matrix:	Plumbing Standing						#1	#2		
Total Metals										
	Lead (Pb)-Total	<1.0		1.0	ug/L	22-NOV-17	10			
L2023467-4	~P2 KINDERGARTEN FOUNTAIN ROOM 112 DYS 4									
Sampled By:	MK on 28-OCT-17 @ 09:45									
Matrix:	Plumbing Flushed						#1	#2		
Total Metals										
	Lead (Pb)-Total	<1.0		1.0	ug/L	22-NOV-17	10			
L2023467-5	~P1 TEACHER COUNTER KITCHEN SINK RM 112 DYS 4A									
Sampled By:	MK on 28-OCT-17 @ 09:05									
Matrix:	Plumbing Standing						#1	#2		
Total Metals										
	Lead (Pb)-Total	<1.0		1.0	ug/L	22-NOV-17	10			
L2023467-6	~P2 TEACHER COUNTER KITCHEN SINK RM 112 DYS 4A									
Sampled By:	MK on 28-OCT-17 @ 09:46									
Matrix:	Plumbing Flushed						#1	#2		
Total Metals										
	Lead (Pb)-Total	<1.0		1.0	ug/L	22-NOV-17	10			
L2023467-7	~P1 TEACHER COUNTER KITCHEN SINK RM 117 DYS 5A									
Sampled By:	MK on 28-OCT-17 @ 09:01									
Matrix:	Plumbing Standing						#1	#2		
Total Metals										
	Lead (Pb)-Total	<1.0		1.0	ug/L	22-NOV-17	10			
L2023467-8	~P2 TEACHER COUNTER KITCHEN SINK RM 117 DYS 5A									
Sampled By:	MK on 28-OCT-17 @ 09:44									
Matrix:	Plumbing Flushed						#1	#2		
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**

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2023467-9	~P1 NEW SCHOOL HALL BOTTLE FILLER DYS 7									
Sampled By:	MK on 28-OCT-17 @ 09:00									
Matrix:	Plumbing Standing						#1	#2		
Total Metals										
	Lead (Pb)-Total	<1.0		1.0	ug/L	22-NOV-17	10			
L2023467-10	~P2 NEW SCHOOL HALL BOTTLE FILLER DYS 7									
Sampled By:	MK on 28-OCT-17 @ 09:40									
Matrix:	Plumbing Flushed						#1	#2		
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.

Quality Control Report

Workorder: L2023467 Report Date: 23-NOV-17

Client: Rainy River District School Board
Re: Donald Young 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
WG2669378-8 DUP		**L2023672-6**						
Lead (Pb)-Total		10.5	10.3		ug/L	1.1	20	22-NOV-17
WG2669378-2 LCS								
Lead (Pb)-Total			97.6		%		80-120	22-NOV-17
WG2669378-6 LCS								
Lead (Pb)-Total			95.5		%		80-120	22-NOV-17
WG2669378-1 MB								
Lead (Pb)-Total			<1.0		ug/L		1	22-NOV-17
WG2669378-5 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
WG2669378-7 MS		**L2023672-6**						
Lead (Pb)-Total			91.7		%		70-130	22-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.

L2023467-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: RRDSB - Donald Young School	WORKS PHONE: School: 807-482-2271, Sherri: 807-275-4979	FOR LAB USE ONLY
CLIENT CONTACT NAME: Travis Enge	WORKS FAX: School: 807-482-1438, Admin: 807-274-5078	SUBMISSION NO.: L2023467
WORKS ADDRESS(physical): 57 Colonization Road, Emo, ON, P0W 1E0	AFTER HOURS PHONE: Peter: 807-275-6762, Travis: 807-276-4733	LOGGED BY: KW
REPORTING ADDRESS: 522 Second St. E., Fort Frances, ON, P9A 1N4	HEALTH UNIT: NWDHU	DATE: Nov 16/17
WORKS/DWIS/SDWS NUMBER: 500124931	HEALTH UNIT PHONE/FAX: Kenora: 807-468-3147/807-468-3914, Fort Frances: 807-274-9827/807-274-0779	TIME: 4:31
EMAIL: sherri.belluz@mail.rrdsb.com, peter.gardiman@mail.rrdsb.com	Requested Service (Circle One): (Reg) Pri (50%) Emerg (100%)	TEMPERATURE AT RECEIPT (C): 5.0

ANALYSES REQUESTED — Please indicate test for each sample by Checkmark in the box below

SAMPLE DESCRIPTION (This description will appear on the report)	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 1L	Time Check
#5 Gym hall bottle filler (DYS 2)		Oct 28/17	9:07am	PS										X					✓	✓	
Gym hall bottle filler (DYS 2)		Oct 28/17	9:52am	PF										X					✓	✓	
#3 Kindergarten fountain room 112 (DYS 4)		Oct 28/17	9:03am	PS										X					✓	✓	
Kindergarten fountain room 112 (DYS 4)		Oct 28/17	9:45am	PF										X					✓	✓	
#4 Teacher counter kitchen sink Rm 112 (DYS 4A)		Oct 28/17	9:05am	PS										X					✓	✓	
Teacher counter kitchen sink Rm 112 (DYS 4A)		Oct 28/17	9:46am	PF										X					✓	✓	
#2 Teacher counter kitchen sink Rm 117 (DYS 5A)		Oct 28/17	9:01am	PS										X					✓	✓	
Teacher counter kitchen sink Rm 117 (DYS 5A)		Oct 28/17	9:44am	PF										X					✓	✓	
#1 New school hall bottle filler (DYS 7)		Oct 28/17	9:00am	PS										X					✓	✓	
New school hall bottle filler (DYS 7)		Oct 28/17	9:40am	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 Kaun	SAMPLED BY (SIGNATURE): Matthew Kaun	DATE/TIME RECEIVED AT LAB: NOV 16 2017 1:41	Other Comments/Cautions (Please identify known or suspected hazards)
SUBMITTED TO LAB BY (PRINT): Matthew Kaun	SUBMITTED TO LAB BY (SIGNATURE): Matthew Kaun	RECEIVED AT LAB BY: JTR	CHECK TO LIST ON REPORT: Chlorine Residual(s); Field pH(s)

Original with Submission; Please Photocopy for your Records