



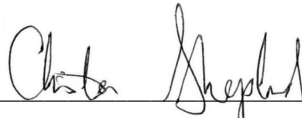
Rainy River District School Board
ATTN: Travis Enge
Crossroads School
522 2ND ST EAST
FORT FRANCES ON P9A 1N4

Date Received: 10-APR-18
Report Date: 12-APR-18 11:05 (MT)
Version: FINAL

Client Phone: 807-275-6762

Certificate of Analysis

Lab Work Order #: L2078067
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						
L2078067-1 -E1 TREATED MECHANICAL ROOM														
Sampled By: MK on 09-APR-18 @ 14:10														
Matrix: Treated Water														
Anions and Nutrients														
Nitrate and Nitrite as N		<0.040		0.040	mg/L	12-APR-18	10.0							
Nitrate (as N)		<0.020		0.020	mg/L	11-APR-18	10							
Nitrite (as N)		<0.010		0.010	mg/L	11-APR-18	1							

** 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.1,2018 = [Suite] - ON-DW-STANDARD+GUIDELINES

#1: Schedule 1 (Microbiological) and 2 (Chemical) Standards (JAN,2018)

#2: Ontario DW Aesthetic and Operational Guidelines

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
ETL-N2N3-TB	Water	Calculate from NO2 + NO3	Calculation
NO2-DW-IC-TB	Water	Nitrite in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
NO3-DW-IC-TB	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

*** 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: L2078067

Report Date: 12-APR-18

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

Contact: Travis Enge

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO2-DW-IC-TB		Water						
Batch	R4008760							
WG2749110-3	DUP	L2077965-1						
Nitrite (as N)		<0.010	<0.010	RPD-NA	mg/L	N/A	20	11-APR-18
WG2749110-2	LCS							
Nitrite (as N)			96.8		%		90-110	11-APR-18
WG2749110-1	MB							
Nitrite (as N)			<0.010		mg/L		0.01	11-APR-18
WG2749110-4	MS	L2078041-3						
Nitrite (as N)			94.6		%		75-125	11-APR-18
NO3-DW-IC-TB		Water						
Batch	R4008760							
WG2749110-3	DUP	L2077965-1						
Nitrate (as N)		0.136	0.135		mg/L	0.7	20	11-APR-18
WG2749110-2	LCS							
Nitrate (as N)			98.5		%		90-110	11-APR-18
WG2749110-1	MB							
Nitrate (as N)			<0.020		mg/L		0.02	11-APR-18
WG2749110-4	MS	L2078041-3						
Nitrate (as N)			95.3		%		75-125	11-APR-18

Quality Control Report

Workorder: L2078067

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Contact: Travis Enge

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.



L2078067-COFC

L2078060-COFC

ALS Thunder Bay, 1081 Barton Street. Thunder Bay, ON P7B 3N3
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 - Crossroads School	WORKS PHONE School: 807-486-3329 Sherri: 807-275-4979	ANALYSES REQUESTED <small>Please indicate test for each sample by Checkmark in the box below</small>										FOR LAB USE ONLY SUBMISSION NO LOGGED BY DATE TIME TEMPERATURE AT RECEIPT [C]																			
CLIENT CONTACT NAME Travis Enge	WORKS FAX School: 807-486-1268 Admin: 807-274-5078	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	L2078067 -I																
WORKS ADDRESS(physical) Hwy 613 North, Devlin, ON, P0W 1C0	AFTER HOURS PHONE Peter: 807-275-6762 Travis: 807-276-4733														L2078060 -M																
REPORTING ADDRESS 522 Second St. E., Fort Frances, ON, P9A 1N4	HEALTH UNIT NWDHU														LS																
WORKS/DWIS/SDWS NUMBER 260009776 / 500141857	HEALTH UNIT Kenora: 807-468-3147/807-468-3914 PHONE/FAX Fort Frances: 807-274-9827/807-274-0779														04/10/18																
EMAIL: sherri.belluz@mail.rrdsb.com peter.gardiman@mail.rrdsb.com	Requested Service (Circle One) <input checked="" type="radio"/> Reg Pri (50%) <input type="radio"/> Emerg (100%)														15:40																
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)											9.4			
																												pH <2	Volume L	Time Check	
DISTRIBUTED Staff Lunch Room	0.25														04/09/2018	2:00pm	D	X	X												
RAW Mechanical Room	/														04/09/2018	2:05pm	R	X													
TREATED Mechanical Room	0.25														04/09/2018	2:10pm	T		X												
* Sample Type Legend: R - Raw Water T - Treated Source D - Distribution Sample P - Plumbing PS - Plumbing Standing PF - Plumbing Flushed																															
SAMPLED BY (PRINT): Matthew Kain	SAMPLED BY (SIGNATURE): 	DATE/TIME RECEIVED AT LAB: April 10/18 3:12				Other Comments/Cautions (Please identify known or suspected hazards) Quany Tray										CHECK TO LIST ON REPORT															
SUBMITTED TO LAB BY (PRINT): Matthew Kain	SUBMITTED TO LAB BY (SIGNATURE): 	RECEIVED AT LAB BY: K														Chlorine Residual(s)															
															Field pH(s)																