



Manitoba Water Services Board  
ATTN: ANGELA MEIER  
Unit 1A, 2010 Currie Blvd  
Brandon MB R7B 4E7

Date Received: 15-SEP-21  
Report Date: 16-SEP-21 15:03 (MT)  
Version: FINAL

Client Phone: 204-726-6092

## Certificate of Analysis

**Lab Work Order #:** L2639545  
**Project P.O. #:** NOT SUBMITTED  
**Job Reference:** W157  
**C of C Numbers:**  
**Legal Site Desc:**



[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721  
ALS CANADA LTD Part of the ALS Group An ALS Limited Company

## ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2639545-1 #1 - RM SHOP Sampled By: CLIENT on 15-SEP-21 @ 09:15 Matrix: WATER							
<b>Total Coliform and E.coli</b>							
Total Coliforms	0		0	MPN/100mL		15-SEP-21	R5585165
Escherichia Coli	0		0	MPN/100mL		15-SEP-21	R5585165
L2639545-2 #2 - FANNYSTELLE RESERVOIR INCOMING Sampled By: CLIENT on 15-SEP-21 @ 08:00 Matrix: WATER							
<b>Total Coliform and E.coli</b>							
Total Coliforms	0		0	MPN/100mL		15-SEP-21	R5585165
Escherichia Coli	0		0	MPN/100mL		15-SEP-21	R5585165
L2639545-3 #3 - ELIE RESERVOIR INCOMING Sampled By: CLIENT on 15-SEP-21 @ 08:45 Matrix: WATER							
<b>Total Coliform and E.coli</b>							
Total Coliforms	0		0	MPN/100mL		15-SEP-21	R5585165
Escherichia Coli	0		0	MPN/100mL		15-SEP-21	R5585165
L2639545-4 #4 - ELIE RESERVOIR OUTGOING Sampled By: CLIENT on 15-SEP-21 @ 08:40 Matrix: WATER							
<b>Total Coliform and E.coli</b>							
Total Coliforms	0		0	MPN/100mL		15-SEP-21	R5585165
Escherichia Coli	0		0	MPN/100mL		15-SEP-21	R5585165
L2639545-5 #5 - ELMBANK BOOSTER INCOMING Sampled By: CLIENT on 15-SEP-21 @ 09:30 Matrix: WATER							
<b>Total Coliform and E.coli</b>							
Total Coliforms	0		0	MPN/100mL		15-SEP-21	R5585165
Escherichia Coli	0		0	MPN/100mL		15-SEP-21	R5585165

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## Reference Information

### Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
TC,EC-QT51-WP	Water	Total Coliform and E.coli	APHA 9223B QT51

This analysis is carried out using procedures adapted from APHA Method 9223B "Enzyme Substrate Coliform Test". E. coli and Total Coliform are determined simultaneously. The sample is mixed with a mixture of hydrolyzable substrates and then sealed in a 51-well packet. The packet is incubated at 35.0 +/- 0.5 degrees C for 18 or 24 hours and then the number of wells exhibiting positive responses are counted. The final results are obtained by comparing the number of positive responses to a probability table.

\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

*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
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

### Chain of Custody Numbers:

### 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.*



## Quality Control Report

Workorder: L2639545

Report Date: 16-SEP-21

Page 1 of 2

Client: Manitoba Water Services Board  
 Unit 1A, 2010 Currie Blvd  
 Brandon MB R7B 4E7

Contact: ANGELA MEIER

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>TC,EC-QT51-WP</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5585165</b>							
<b>WG3617760-1</b>	<b>MB</b>							
Total Coliforms			0		MPN/100mL		1	15-SEP-21
Escherichia Coli			0		MPN/100mL		1	15-SEP-21
<b>WG3617760-2</b>	<b>MB</b>							
Total Coliforms			0		MPN/100mL		1	15-SEP-21
Escherichia Coli			0		MPN/100mL		1	15-SEP-21
<b>WG3617760-3</b>	<b>MB</b>							
Total Coliforms			0		MPN/100mL		1	15-SEP-21
Escherichia Coli			0		MPN/100mL		1	15-SEP-21

# Quality Control Report

Workorder: L2639545

Report Date: 16-SEP-21

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

## 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.



<b>Report To</b>		<b>Report Format</b>		<b>Requested (Rush for routine analysis subject to availability)</b>									
Company: Manitoba Water Services Board (W157)		<input checked="" type="checkbox"/> Standard		<input type="radio"/> Regular (Standard Turnaround Times - Business Days)									
Contact: Angela Meier		<input checked="" type="checkbox"/> PDF <input type="checkbox"/> Excel <input type="checkbox"/> Digital <input checked="" type="checkbox"/> Fax		<input type="radio"/> Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT									
Address: PO Box 217		Email 1: <a href="mailto:cartierwtp@crwc.ca">cartierwtp@crwc.ca</a>		<input checked="" type="radio"/> Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT									
St. Eustache, MB R0H 1H0		Email 2: <a href="mailto:kale.black@gov.mb.ca">kale.black@gov.mb.ca</a> <a href="mailto:Marc.Balcaen@gov.mb.ca">Marc.Balcaen@gov.mb.ca</a>		<input type="radio"/> Same Day or Weekend Emergency - Contact ALS to Confirm TAT									
Phone: 204-353-4055 Fax: 204-353-4068		Email 3: <a href="mailto:angela.meier@gov.mb.ca">angela.meier@gov.mb.ca</a>		<b>Analysis Request</b>									
		Email 4: <a href="mailto:pastorind@ae.ca">pastorind@ae.ca</a>											
Invoice To Same as Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<b>Client / Project Information</b>		Please indicate below Filtered, Preserved or both (F, P, F/P)									
Hardcopy of Invoice with Report? <input type="checkbox"/> Yes <input type="checkbox"/> No		Job #: W157											
Company:		PO / AFE:											
Contact:		LSD:											
Address:		Quote #:											
Phone: Fax:		ALS Contact: S.Sawatzky		Sampler: <i>[Signature]</i>		TC & EC		Number of Containers					
Lab Work Order # (lab use only)													
<b>Sample</b>		<b>Sample Identification</b>		<b>Date</b>						<b>Time</b>		<b>Sample Type</b>	
#		(This description will appear on the report)		(dd-mm-yy)						(hh:mm)			
RM Shop		F: 154 T: 173		15-Sep-21						9:15am		Water	
Fannystelle Reservoir Incoming		F: 144 T: 152		15-Sep-21						8:00am		Water	
Elie Reservoir Incoming		F: 174 T: 191		15-Sep-21						8:45am		Water	
Elie Reservoir Outgoing		F: 160 T: 188		15-Sep-21		8:40am		Water					
Elmbank Booster Incoming		F: 152 T: 169		15-Sep-21		9:30am		Water					
Special Instructions		land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details											
<p><b>RUSH</b></p> <p>Complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.</p> <p>By the use of this form, the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.</p> <p>Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.</p>													
SHIPMENT RELEASE (client use)			SHIPMENT RECEPTION (lab use only)			SHIPMENT VERIFICATION (lab use only)							
Released by:	Date (dd-mm-yy)	Time (hh-mm)	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations:			
			O.A.	15/9/21	11:44am	17.9°C				Yes / No ? If Yes add SIF			

**Public Water System on Boil Water Advisory**

**Emergency call Back # 204-981-9145**