

Nunavut - Community & Government Services

- Rankin Inlet

ATTN: BLAINE CHISLETT/ROB HOGAN

PO Box 490

Rankin Inlet NU X0C 0G0

Date Received: 06-JUN-13

Report Date: 10-JUN-13 15:58 (MT)

Version: **FINAL**

Client Phone: 867-645-8172

Certificate of Analysis

L1312837 Lab Work Order #:

Project P.O. #: **NOT SUBMITTED** Job Reference: **RANKIN INLET**

C of C Numbers: Legal Site Desc:

General Manager, Winnipeg

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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 A Campbell Brothers Limited Company



L1312837 CONTD.... PAGE 2 of 3 Version: FINAL

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1312837-1 RANKIN INLET - TOWN SUPPLY							
Sampled By: Mike Fontaine on 05-JUN-13 @ 09:30							
Matrix: Water							
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		06-JUN-13	R2627649
Escherichia Coli	0		0	MPN/100mL		06-JUN-13	R2627649
L1312837-2 RANKIN INLET - OLD TOWN							
Sampled By: Mike Fontaine on 05-JUN-13 @ 09:30							
Matrix: Water							
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		06-JUN-13	R2627649
Escherichia Coli	0		0	MPN/100mL		06-JUN-13	R2627649
L1312837-3 RANKIN INLET - NEW TOWN							
Sampled By: Mike Fontaine on 05-JUN-13 @ 09:30							
Matrix: Water							
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		06-JUN-13	R2627649
Escherichia Coli	0		0	MPN/100mL		06-JUN-13	R2627649
L1312837-4 RANKIN INLET - NUVUK							
Sampled By: Mike Fontaine on 05-JUN-13 @ 09:30							
Matrix: Water							
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		06-JUN-13	R2627649
Escherichia Coli	0		0	MPN/100mL		06-JUN-13	R2627649
L1312837-5 RANKIN INLET - AREA 5							
Sampled By: Mike Fontaine on 05-JUN-13 @ 09:30							
Matrix: Water							
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		06-JUN-13	R2627649
Escherichia Coli	0		0	MPN/100mL		06-JUN-13	R2627649
L1312837-6 RANKIN INLET - KIVALLIQ							
Sampled By: Mike Fontaine on 05-JUN-13 @ 09:30							
Matrix: Water							
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		06-JUN-13	R2627649
Escherichia Coli	0		0	MPN/100mL		06-JUN-13	R2627649
	1						

^{*} Refer to Referenced Information for Qualifiers (if any) and Methodology.

RANKIN INLET L1312837 CONTD....

Reference Information

PAGE 3 of 3 Version: FINAL

Test Method References:

ALS Test Code Matrix Test Description Method Reference**

TC,EC-QT51-WP Water Total Coliform and E.coli APHA 9223

The analysis of Total Coliform (TC) & Escherichia coli (EC) is processed by Quanti-tray (QT): Two substrates, ONPG for TC detection and MUG for EC detection are used. The substrates are added to the 100 ml sample dispensed into the 51 well tray. The tray is incubated at 35 Celcius for 24 hours. A colour reaction develops to indicate a positive reaction (presence of TC, EC). The number of positive wells are counted and converted to Most Probable Number Units (MPNU) per 100 ml. This test is also called 'rapid MPN method', therefore, the MPN results are derived from a statistical table with a 95% confidence and report as MPN units. The QT detection limit for a negative result is reported as zero.

TC,EC-QT51-WP Water Total Coliform and E.coli APHA 9223 QT

The analysis of Total Coliform (TC) & Escherichia coli (EC) is processed by Quanti-tray (QT): Two substrates, ONPG for TC detection and MUG for EC detection are used. The substrates are added to the 100 ml sample dispensed into the 51 well tray. The tray is incubated at 35 Celcius for 24 hours. A colour reaction develops to indicate a positive reaction (presence of TC, EC). The number of positive wells are counted and converted to Most Probable Number Units (MPNU) per 100 ml. This test is also called 'rapid MPN method', therefore, the MPN results are derived from a statistical table with a 95% confidence and report as MPN units. The QT detection limit for a negative result is reported as zero.

** 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.





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Address: PO Box 490	Email 1:	bchislett@gov.r	nu.ca		O Em	ergency (1	-2 Bus. Da	ys) - 1009	% Surcha	rge - Con	tact ALS to	Confirm	TAT
Rankin Inlet, NU, X0C 0G0	Email 2:				○ Sar	me Day or	Weekend 8	mergency	/ - Conta	ct ALS to	Confirm TA	Ţ	
Phone: - 867-645-8172 Fax:	Email 3:									quest			
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Address: 10-0-490 Rankin Inlet, Ny. XOCOGO]	- 1							l ge
Phone: (863) 645-8172.	Quote #:				₽								ntair
ELab Work Order #	ALS Contact:	: 	Sampler:	Mike Fontaine	-QT51-WF								Number of Container
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Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details													
WMLPH = Williamson Lake Pimp House.													
Failure to complete all portions of this form may délay analysis. Please fill in this form LEGIBLY.													
By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.													
Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / ho!ding time table for common analyses. SHIPMENT RELEASE (client use) SHIPMENT RELEASE (client use)													
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Environmental Health Officer Bag 72, Rankin Inlet, NU, X0C 0G0

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Phone: (867) 645-8273 Fax: (867) 645-8274

Bacteriological Analysis of Drinking Water Sample Collection Information Form

Sample Collection Information Community from which sample was collected: Location of sample collection: Date of sample collection: Time of sample collection: Name of person who collected sample: Telephone number of person who collected sample: For Laboratory Use Only Date Received: Date Processed: Processed by: Results Total Coliform per 100ml: E. coli per 100ml: Date Read: Read by: No Significant Evidence of Bacteriological Contamination Sample collected is bacteriologically safe for human consumption. Significant Evidence of Bacteriological Contamination Sample collected may be unsafe for human consumption as bacteriological contamination is present. Resample as soon as possible. Unsafe to Drink Sample collected is unsafe for human consumption as fecal contamination is present.

The above results relate only to the sample tested. This water sample was only tested for the presence of both Total Coliform and E. *coli* bacterial indicators of contamination by using membrane filtration.

Resample as soon as possible.



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Resample as soon as possible.





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Bacteriological Analysis of Drinking Water Sample Collection Information Form

Sample Collection Information Community from which sample was collected: Location of sample collection: Date of sample collection: Time of sample collection: Name of person who collected sample: Telephone number of person who collected sample: 8122/8154 For Laboratory Use Only Date Received: Date Processed: Processed by: Results Total Coliform per 100ml: E. coli per 100ml: Date Read: Read by: No Significant Evidence of Bacteriological Contamination Sample collected is bacteriologically safe for human consumption. Significant Evidence of Bacteriological Contamination Sample collected may be unsafe for human consumption as bacteriological contamination is present. Resample as soon as possible. Unsafe to Drink

The above results relate only to the sample tested. This water sample was only tested for the presence of both Total Coliform and E. *coli* bacterial indicators of contamination by using membrane filtration.

Resample as soon as possible.

Sample collected is unsafe for human consumption as fecal contamination is present.



Date

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Date

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Phone: (867) 645-8273 Fax: (867) 645-8274

Bacteriological Analysis of Drinking Water Sample Collection Information Form

Sample Collection Information

Community from which sample was collected:

Location of sample collection:

Date of sample collection:

Time of sample collection:

Name of person who collected sample:

Telephone number of person who collected sample:

For Laboratory Use Only

Date Received:

Processed:		Processed by:
		Results
Coliform per 100ml:		E. coli per 100ml:
Read:		Read by:
	Sample collected is bacteriologically Significant Evidence of Ba	f Bacteriological Contamination y safe for human consumption. acteriological Contamination human consumption as bacteriological contamination is present.
	Unsafe to Drink Sample collected is unsafe for huma Resample as soon as possible.	in consumption as fecal contamination is present.

The above results relate only to the sample tested. This water sample was only tested for the presence of both Total Coliform and E. coli bacterial indicators of contamination by using membrane filtration.



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Resample as soon as possible.



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The above results relate only to the sample tested. This water sample was only tested for the presence of both Total Coliform and E. coli bacterial indicators of contamination by using membrane filtration.

Resample as soon as possible.

Sample collected is unsafe for human consumption as fecal contamination is present.