



Nunavut - Community & Government Services
- Rankin Inlet
ATTN: C SMITH
PO Box 490
Rankin Inlet NU X0C 0G0

Date Received: 17-JUL-13
Report Date: 22-JUL-13 15:51 (MT)
Version: FINAL

Client Phone: 867-645-8070

Certificate of Analysis

Lab Work Order #: **L1333834**
Project P.O. #: NOT SUBMITTED
Job Reference:
C of C Numbers:
Legal Site Desc:

Craig Riddell
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|--------------------|------------|--------------------|------------------------------------|-----------|------------------------------------|----------------------------------|
| L1333834-1 RANKIN INLET - KATANJONG DAY CARE Sampled By: C SMITH on 15-JUL-13 @ 13:25 Matrix: WATER Total Coliform and E.coli Total Coliforms Escherichia Coli | 0 0 | | 0 0 | MPN/100mL MPN/100mL | | 17-JUL-13 17-JUL-13 | R2652199 R2652199 |
| L1333834-2 RANKIN INLET - AGNICO EAGLE BLDG OFFICE Sampled By: C SMITH on 15-JUL-13 @ 13:25 Matrix: WATER Total Coliform and E.coli Total Coliforms Escherichia Coli | 0 0 | | 0 0 | MPN/100mL MPN/100mL | | 17-JUL-13 17-JUL-13 | R2652199 R2652199 |
| L1333834-3 RANKIN INLET - ARENA - SINGIITAG COMPLEX Sampled By: C SMITH on 15-JUL-13 @ 13:25 Matrix: WATER Total Coliform and E.coli Total Coliforms Escherichia Coli | 0 0 | | 0 0 | MPN/100mL MPN/100mL | | 17-JUL-13 17-JUL-13 | R2652199 R2652199 |
| L1333834-4 RANKIN INLET - NUNAVUT ARCTIC COLLEGE DAYCARE Sampled By: C SMITH on 15-JUL-13 @ 13:25 Matrix: WATER Total Coliform and E.coli Total Coliforms Escherichia Coli | 0 0 | | 0 0 | MPN/100mL MPN/100mL | | 17-JUL-13 17-JUL-13 | R2652199 R2652199 |
| L1333834-5 RANKIN INLET - LEO USSAK SCHOOL Sampled By: C SMITH on 15-JUL-13 @ 13:25 Matrix: WATER Total Coliform and E.coli Total Coliforms Escherichia Coli | 0 0 | | 0 0 | MPN/100mL MPN/100mL | | 17-JUL-13 17-JUL-13 | R2652199 R2652199 |
| | | | | | | | |

* 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 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 ww - 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.

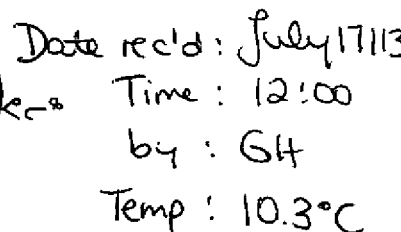
D.L. - The reporting limit.

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.

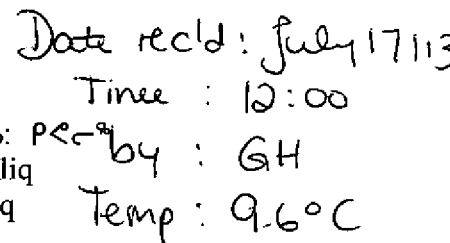
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



L1333834-COFC

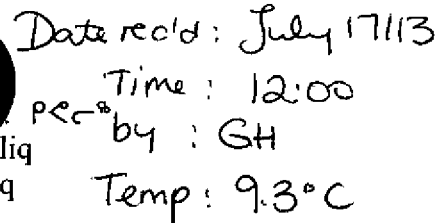
The above results relate only to the sample tested. This water sample was only tested for the presence of both Total Coliform and *E. coli* bacterial indicators of contamination by using membrane filtration.



L1333834-COFC

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.

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.



Bacteriological Analysis of Drink Sample Collection Information



L1333834-COFC

| | |
|--|-------------------|
| Community from which sample was collected: | Rankin Inlet, NU |
| Location of sample collection: | Kataniag Day Care |
| Date of sample collection: | July 15, 2013 |
| Time of sample collection: | 1325 |
| Name of person who collected sample: | C. Smith |
| Telephone number of person who collected sample: | 867 645 8070 |

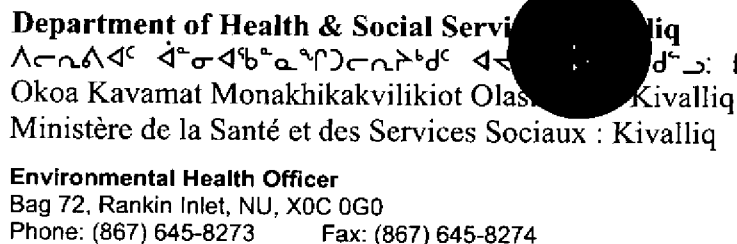
| | |
|---------------------------|---------------------------|
| Date Received: | : |
| Date Processed: | Processed by: |
| Results | |
| Total Coliform per 100ml: | <i>E. coli</i> per 100ml: |
| Date Read: | Read by: |

- ☐ **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.
Resample as soon as possible.

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.



Temp : 8.9°C

[illegible]

Sample Collection Information

| Sample Collection Information | |
|--|------------------------|
| Community from which sample was collected: | Rankin Inlet, NU |
| Location of sample collection: | Agnico Eagle Bldg oppa |
| Date of sample collection: | July 15, 2013 |
| Time of sample collection: | 1340 |
| Name of person who collected sample: | C-Smith |
| Telephone number of person who collected sample: | 867 645 8070 |

For Laboratory Use Only

| | |
|---------------------------|---------------------------|
| Date Received: | |
| Date Processed: | Processed by: |
| Results | |
| Total Coliform per 100ml: | <i>E. coli</i> 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.
Resample as soon as possible.

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.