



Hamlet of Rankin Inlet  
ATTN: TOM NG  
PO Box 310  
Rankin Inlet NU X0C 0G0

Date Received: 27-JUN-15  
Report Date: 27-JUL-15 07:32 (MT)  
Version: FINAL

Client Phone: 867-645-2895

## Certificate of Analysis

Lab Work Order #: L1634058  
Project P.O. #: NOT SUBMITTED  
Job Reference: HAMLET OF RANKIN INLET  
C of C Numbers:  
Legal Site Desc:



Hua Wo  
Chemistry Laboratory Manager

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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  
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ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                      | Result   | Qualifier* | D.L.     | Units     | Extracted | Analyzed  | Batch    |
|------------------------------------------------|----------|------------|----------|-----------|-----------|-----------|----------|
| L1634058-1    RAN #2                           |          |            |          |           |           |           |          |
| Sampled By:    J KALUDJAK on 25-JUN-15 @ 09:40 |          |            |          |           |           |           |          |
| Matrix:        Wastewater                      |          |            |          |           |           |           |          |
| <b>Nunavut WW Group 1</b>                      |          |            |          |           |           |           |          |
| <b>Alkalinity, Bicarbonate</b>                 |          |            |          |           |           |           |          |
| Bicarbonate (HCO3)                             | 150      |            | 1.2      | mg/L      |           | 13-JUL-15 |          |
| <b>Alkalinity, Carbonate</b>                   |          |            |          |           |           |           |          |
| Carbonate (CO3)                                | <0.60    |            | 0.60     | mg/L      |           | 13-JUL-15 |          |
| <b>Alkalinity, Hydroxide</b>                   |          |            |          |           |           |           |          |
| Hydroxide (OH)                                 | <0.34    |            | 0.34     | mg/L      |           | 13-JUL-15 |          |
| <b>Ammonia by colour</b>                       |          |            |          |           |           |           |          |
| Ammonia, Total (as N)                          | 1.09     | DLA        | 0.10     | mg/L      |           | 30-JUN-15 | R3218142 |
| <b>Biochemical Oxygen Demand (BOD)</b>         |          |            |          |           |           |           |          |
| Biochemical Oxygen Demand                      | 6.7      |            | 2.0      | mg/L      |           | 27-JUN-15 | R3225488 |
| <b>Chloride in Water by IC</b>                 |          |            |          |           |           |           |          |
| Chloride (Cl)                                  | 51.2     |            | 0.50     | mg/L      |           | 29-JUN-15 | R3218873 |
| <b>Conductivity</b>                            |          |            |          |           |           |           |          |
| Conductivity                                   | 630      |            | 1.0      | umhos/cm  |           | 10-JUL-15 | R3224269 |
| <b>Fecal Coliform</b>                          |          |            |          |           |           |           |          |
| Fecal Coliforms                                | 4        | PEHR       | 3        | MPN/100mL |           | 27-JUN-15 | R3218196 |
| <b>Hardness Calculated</b>                     |          |            |          |           |           |           |          |
| Hardness (as CaCO3)                            | 234      |            | 0.30     | mg/L      |           | 08-JUL-15 |          |
| <b>Mercury Total</b>                           |          |            |          |           |           |           |          |
| Mercury (Hg)-Total                             | <0.00020 | DLM        | 0.00020  | mg/L      | 07-JUL-15 | 07-JUL-15 | R3221935 |
| <b>Nitrate in Water by IC</b>                  |          |            |          |           |           |           |          |
| Nitrate (as N)                                 | 0.138    |            | 0.020    | mg/L      |           | 29-JUN-15 | R3218873 |
| <b>Nitrate+Nitrite</b>                         |          |            |          |           |           |           |          |
| Nitrate and Nitrite as N                       | 0.167    |            | 0.070    | mg/L      |           | 03-JUL-15 |          |
| <b>Nitrite in Water by IC</b>                  |          |            |          |           |           |           |          |
| Nitrite (as N)                                 | 0.030    |            | 0.010    | mg/L      |           | 29-JUN-15 | R3218873 |
| <b>Oil and Grease, Total</b>                   |          |            |          |           |           |           |          |
| Oil and Grease, Total                          | <2.0     |            | 2.0      | mg/L      | 04-JUL-15 | 04-JUL-15 | R3220636 |
| <b>Phenol (4AAP)</b>                           |          |            |          |           |           |           |          |
| Phenols (4AAP)                                 | 0.0052   |            | 0.0010   | mg/L      |           | 09-JUL-15 | R3222718 |
| <b>Phosphorus, Total</b>                       |          |            |          |           |           |           |          |
| Phosphorus (P)-Total                           | 0.203    |            | 0.010    | mg/L      |           | 06-JUL-15 | R3220337 |
| <b>Sulfate in Water by IC</b>                  |          |            |          |           |           |           |          |
| Sulfate (SO4)                                  | 122      |            | 0.30     | mg/L      |           | 29-JUN-15 | R3218873 |
| <b>Total Alkalinity as CaCO3</b>               |          |            |          |           |           |           |          |
| Alkalinity, Total (as CaCO3)                   | 123      |            | 1.0      | mg/L      |           | 10-JUL-15 | R3224269 |
| <b>Total Metals by ICP-MS</b>                  |          |            |          |           |           |           |          |
| Aluminum (Al)-Total                            | 0.0196   |            | 0.0050   | mg/L      | 07-JUL-15 | 07-JUL-15 | R3221453 |
| Arsenic (As)-Total                             | 0.00238  |            | 0.00020  | mg/L      | 07-JUL-15 | 07-JUL-15 | R3221453 |
| Cadmium (Cd)-Total                             | 0.000136 |            | 0.000010 | mg/L      | 07-JUL-15 | 07-JUL-15 | R3221453 |
| Calcium (Ca)-Total                             | 77.2     |            | 0.10     | mg/L      | 07-JUL-15 | 07-JUL-15 | R3221453 |
| Chromium (Cr)-Total                            | <0.0010  |            | 0.0010   | mg/L      | 07-JUL-15 | 07-JUL-15 | R3221453 |
| Cobalt (Co)-Total                              | 0.00400  |            | 0.00020  | mg/L      | 07-JUL-15 | 07-JUL-15 | R3221453 |
| Copper (Cu)-Total                              | 0.0109   |            | 0.00020  | mg/L      | 07-JUL-15 | 07-JUL-15 | R3221453 |
| Iron (Fe)-Total                                | 4.76     |            | 0.10     | mg/L      | 07-JUL-15 | 07-JUL-15 | R3221453 |
| Lead (Pb)-Total                                | 0.00242  |            | 0.000090 | mg/L      | 07-JUL-15 | 07-JUL-15 | R3221453 |
| Magnesium (Mg)-Total                           | 9.93     |            | 0.010    | mg/L      | 07-JUL-15 | 07-JUL-15 | R3221453 |
| Manganese (Mn)-Total                           | 0.527    |            | 0.00030  | mg/L      | 07-JUL-15 | 07-JUL-15 | R3221453 |
| Nickel (Ni)-Total                              | 0.0106   |            | 0.0020   | mg/L      | 07-JUL-15 | 07-JUL-15 | R3221453 |
| Potassium (K)-Total                            | 12.2     |            | 0.020    | mg/L      | 07-JUL-15 | 07-JUL-15 | R3221453 |
| Sodium (Na)-Total                              | 37.3     |            | 0.030    | mg/L      | 07-JUL-15 | 07-JUL-15 | R3221453 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                                                                                                                                                                                                                                                                    | Result                                           | Qualifier*                       | D.L.                                     | Units                                        | Extracted                                 | Analyzed                                                     | Batch                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------|------------------------------------------|----------------------------------------------|-------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------|
| L1634058-1    RAN #2<br>Sampled By:    J KALUDJAK on 25-JUN-15 @ 09:40<br>Matrix:        Wastewater<br><b>Total Metals by ICP-MS</b><br>Zinc (Zn)-Total<br><b>Total Organic Carbon</b><br>Total Organic Carbon<br><b>Total Suspended Solids</b><br>Total Suspended Solids<br><b>pH</b><br>pH | 0.114<br><br><br><br>14.1<br><br>8.0<br><br>7.53 | <br><br><br><br><br><br><br><br> | 0.0020<br><br>1.0<br><br>5.0<br><br>0.10 | mg/L<br><br>mg/L<br><br>mg/L<br><br>pH units | 07-JUL-15<br><br><br><br><br><br><br><br> | 07-JUL-15<br><br>24-JUL-15<br><br>02-JUL-15<br><br>10-JUL-15 | R3221453<br><br>R3232635<br><br>R3219144<br><br>R3224269 |
|                                                                                                                                                                                                                                                                                              |                                                  |                                  |                                          |                                              |                                           |                                                              |                                                          |

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

## Reference Information

## Qualifiers for Sample Submission Listed:

| Qualifier | Description                                                                      |
|-----------|----------------------------------------------------------------------------------|
| EHR       | Exceeded Recommended Holding Time On Receipt: Proceed With Analysis As Requested |

## Sample Parameter Qualifier Key:

| Qualifier | Description                                                                                        |
|-----------|----------------------------------------------------------------------------------------------------|
| DLA       | Detection Limit adjusted for required dilution                                                     |
| DLM       | Detection Limit Adjusted due to sample matrix effects.                                             |
| MS-B      | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| PEHR      | Parameter Exceeded Recommended Holding Time On Receipt: Proceed With Analysis As Requested.        |

## Test Method References:

| ALS Test Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Matrix | Test Description                | Method Reference**          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------|-----------------------------|
| ALK-CO3CO3-CALC-WP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Water  | Alkalinity, Carbonate           | CALCULATION                 |
| The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by carbonate is calculated and reported as mg CO3 2-/L.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                                 |                             |
| ALK-HCO3HCO3-CALC-WP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Water  | Alkalinity, Bicarbonate         | CALCULATION                 |
| The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by bicarbonate is calculated and reported as mg HCO3-/L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                                 |                             |
| ALK-OHOH-CALC-WP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Water  | Alkalinity, Hydroxide           | CALCULATION                 |
| The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by hydroxide is calculated and reported as mg OH-/L.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                                 |                             |
| ALK-TITR-WP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Water  | Total Alkalinity as CaCO3       | APHA 2320B                  |
| The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. Total alkalinity is determined by titration with a strong standard mineral acid to the successive HCO3- and H2CO3 endpoints indicated electrometrically.                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |                                 |                             |
| BOD-WP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Water  | Biochemical Oxygen Demand (BOD) | APHA 5210 B                 |
| Samples are diluted and seeded and then incubated in airtight bottles at 20°C for 5 days. Dissolved oxygen is measured initially and after incubation, and results are computed from the difference between initial and final DO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                 |                             |
| C-TOT-ORG-WP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Water  | Total Organic Carbon            | APHA 5310 B-INSTRUMENTAL-WP |
| This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide. |        |                                 |                             |
| The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC.<br>TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |                                 |                             |
| CL-IC-N-WP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Water  | Chloride in Water by IC         | EPA 300.1 (mod)             |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                                 |                             |
| EC-WP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Water  | Conductivity                    | APHA 2510B                  |
| Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                                 |                             |
| ETL-HARDNESS-TOT-WP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Water  | Hardness Calculated             | HARDNESS CALCULATED         |
| FC-MPN-WP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Water  | Fecal Coliform                  | APHA 9221E                  |
| The Most Probable Number (MPN) method is based on the Multiple Tube Fermentation technique. The results of examination of replicate tubes and dilutions of a sample are reported after confirmations specific to total coliform, fecal coliform and E. coli are performed. Results are reported in MPN/100 mL for water and MPN/gram for food and solid samples.                                                                                                                                                                                                                                                                                                                                                                                     |        |                                 |                             |

## Reference Information

## Test Method References:

| ALS Test Code                                                                                                                                                                                            | Matrix | Test Description       | Method Reference**      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------|-------------------------|
| HG-T-CVAF-WP                                                                                                                                                                                             | Water  | Mercury Total          | EPA245.7 V2.0           |
| Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.                                                            |        |                        |                         |
| MET-T-L-MS-WP                                                                                                                                                                                            | Water  | Total Metals by ICP-MS | APHA 3030E/EPA 6020A-TL |
| This analysis involves preliminary sample treatment by hotblock acid digestion (APHA 3030E). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).              |        |                        |                         |
| NH3-COL-WP                                                                                                                                                                                               | Water  | Ammonia by colour      | APHA 4500 NH3 F         |
| Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.                   |        |                        |                         |
| NO2+NO3-CALC-WP                                                                                                                                                                                          | Water  | Nitrate+Nitrite        | CALCULATION             |
| NO2-IC-N-WP                                                                                                                                                                                              | Water  | Nitrite in Water by IC | EPA 300.1 (mod)         |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.                                                                                                               |        |                        |                         |
| NO3-IC-N-WP                                                                                                                                                                                              | Water  | Nitrate in Water by IC | EPA 300.1 (mod)         |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.                                                                                                               |        |                        |                         |
| OGG-TOT-WT                                                                                                                                                                                               | Water  | Oil and Grease, Total  | APHA 5520 B             |
| Sample is extracted with hexane, extract is then evaporated and the residue is weighed to determine total oil and grease.                                                                                |        |                        |                         |
| P-T-COL-WP                                                                                                                                                                                               | Water  | Phosphorus, Total      | APHA 4500 P PHOSPHORUS  |
| This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorus is determined colourimetrically after persulphate digestion of the sample.                  |        |                        |                         |
| PH-WP                                                                                                                                                                                                    | Water  | pH                     | APHA 4500H              |
| The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.                                |        |                        |                         |
| PHENOLS-4AAP-WT                                                                                                                                                                                          | Water  | Phenol (4AAP)          | EPA 9066                |
| An automated method is used to distill the sample. The distillate is then buffered to pH 9.4 which reacts with 4AAP and potassium ferricyanide to form a red complex which is measured colorimetrically. |        |                        |                         |
| SO4-IC-N-WP                                                                                                                                                                                              | Water  | Sulfate in Water by IC | EPA 300.1 (mod)         |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.                                                                                                               |        |                        |                         |
| SOLIDS-TOTSUS-WP                                                                                                                                                                                         | Water  | Total Suspended Solids | APHA 2540 D (modified)  |
| Total suspended solids in aqueous matrices is determined gravimetrically after drying the residue at 103 105°C.                                                                                          |        |                        |                         |

\*\* 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                            |
|----------------------------|------------------------------------------------|
| WT                         | ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA  |
| WP                         | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

## Chain of Custody Numbers:

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|------------------|--------------------|
|---------------|--------|------------------|--------------------|

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 wwwt - 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.



L1634058-COFC

L1634058-COFC

**10- 313188**

Page of

| Report To                                                                                                                                                                                                                                               |                                                                       |       |              |                                   |       | Service Request:(Rush subject to availability - Contact ALS to confirm TAT) |                 |                                      |         |                                               |                   |                      |               |            |               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------|--------------|-----------------------------------|-------|-----------------------------------------------------------------------------|-----------------|--------------------------------------|---------|-----------------------------------------------|-------------------|----------------------|---------------|------------|---------------|
| Company: Hymlet & Rankin Toilet                                                                                                                                                                                                                         |                                                                       |       |              |                                   |       | Standard: Other (specify):                                                  |                 |                                      |         |                                               |                   |                      |               |            |               |
| Contact: Tom NG.                                                                                                                                                                                                                                        |                                                                       |       |              |                                   |       | Select: PDF [X] Excel Digital Fax                                           |                 |                                      |         |                                               |                   |                      |               |            |               |
| Address: P.O. Box 310<br>Rankin Toilet                                                                                                                                                                                                                  |                                                                       |       |              |                                   |       | Email 1: works @ RankinToilet.ca                                            |                 |                                      |         |                                               |                   |                      |               |            |               |
| Phone: 867 645 2895 Fax:                                                                                                                                                                                                                                |                                                                       |       |              |                                   |       | Email 2: SAO @ RankinToilet.ca                                              |                 |                                      |         |                                               |                   |                      |               |            |               |
|                                                                                                                                                                                                                                                         |                                                                       |       |              |                                   |       | Analysis Request                                                            |                 |                                      |         |                                               |                   |                      |               |            |               |
| Invoice To Same as Report ? (circle) Yes or No (if No, provide details)                                                                                                                                                                                 |                                                                       |       |              |                                   |       | ( Indicate Filtered or Preserved, F/P )                                     |                 |                                      |         |                                               |                   |                      |               |            |               |
| Copy of Invoice with Report? (circle) Yes or No                                                                                                                                                                                                         |                                                                       |       |              |                                   |       |                                                                             |                 |                                      |         |                                               |                   |                      |               |            |               |
| Company: Acet                                                                                                                                                                                                                                           |                                                                       |       |              |                                   |       |                                                                             |                 |                                      |         |                                               |                   |                      |               |            |               |
| Contact: Job# Rankin Toilet Monthly Pay                                                                                                                                                                                                                 |                                                                       |       |              |                                   |       |                                                                             |                 |                                      |         |                                               |                   |                      |               |            |               |
| Address:                                                                                                                                                                                                                                                |                                                                       |       |              |                                   |       |                                                                             |                 |                                      |         |                                               |                   |                      |               |            |               |
| Phone: Fax:                                                                                                                                                                                                                                             |                                                                       |       |              |                                   |       |                                                                             |                 |                                      |         |                                               |                   |                      |               |            |               |
| Lab Work Order # (lab use only)                                                                                                                                                                                                                         |                                                                       |       |              |                                   |       | ALS Contact: Sampler: J. Haludjick                                          |                 |                                      |         |                                               |                   |                      |               |            |               |
| Sample #                                                                                                                                                                                                                                                | Sample Identification<br>(This description will appear on the report) |       |              |                                   |       | Date<br>(dd-mm-yy)                                                          | Time<br>(hh:mm) | Sample Type                          |         |                                               |                   | Number of Containers |               |            |               |
| RAN # 2                                                                                                                                                                                                                                                 |                                                                       |       |              |                                   |       | 23/06/2015                                                                  | 16.00           | [X] Routine                          | [X] Bad | P Total Metals                                | P Total Nutrients |                      | P pH + Grease | P Bacteria | P Total Metal |
|                                                                                                                                                                                                                                                         |                                                                       |       |              |                                   |       |                                                                             |                 | [X]                                  | [X]     | P                                             | P                 |                      | P             | P          |               |
|                                                                                                                                                                                                                                                         |                                                                       |       |              |                                   |       |                                                                             |                 |                                      |         |                                               |                   |                      |               |            |               |
|                                                                                                                                                                                                                                                         |                                                                       |       |              |                                   |       |                                                                             |                 |                                      |         |                                               |                   |                      |               |            |               |
|                                                                                                                                                                                                                                                         |                                                                       |       |              |                                   |       |                                                                             |                 |                                      |         |                                               |                   |                      |               |            |               |
|                                                                                                                                                                                                                                                         |                                                                       |       |              |                                   |       |                                                                             |                 |                                      |         |                                               |                   |                      |               |            |               |
|                                                                                                                                                                                                                                                         |                                                                       |       |              |                                   |       |                                                                             |                 |                                      |         |                                               |                   |                      |               |            |               |
|                                                                                                                                                                                                                                                         |                                                                       |       |              |                                   |       |                                                                             |                 |                                      |         |                                               |                   |                      |               |            |               |
|                                                                                                                                                                                                                                                         |                                                                       |       |              |                                   |       |                                                                             |                 |                                      |         |                                               |                   |                      |               |            |               |
| Special Instructions / Regulation with water or land use (CCME- Freshwater Aquatic Life/BC CSR-Commercial/AB Tier 1-Natural/etc) / Hazardous Details                                                                                                    |                                                                       |       |              |                                   |       |                                                                             |                 |                                      |         |                                               |                   |                      |               |            |               |
| Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.<br>By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy. |                                                                       |       |              |                                   |       |                                                                             |                 |                                      |         |                                               |                   |                      |               |            |               |
| SHIPMENT RELEASE (client use)                                                                                                                                                                                                                           |                                                                       |       |              | SHIPMENT RECEPTION (lab use only) |       |                                                                             |                 | SHIPMENT VERIFICATION (lab use only) |         |                                               |                   |                      |               |            |               |
| Released by:                                                                                                                                                                                                                                            | Date:                                                                 | Time: | Received by: | Date:                             | Time: | Temperature:                                                                | Verified by:    | Date:                                | Time:   | Observations:<br>Yes / No ?<br>If Yes add SIF |                   |                      |               |            |               |
|                                                                                                                                                                                                                                                         |                                                                       |       | DTS          | 27JUN15                           | 11:25 | 7.6 °C                                                                      |                 |                                      |         |                                               |                   |                      |               |            |               |

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY

YELLOW - CLIENT COPY

GENF 18.01 Front

# Field Log



L1634058-COFC

Name of Sampler(s): Kennedy Nipigusk

Date of Sampling: Thurs 25, 2015

Time of Sampling: 9:40 am

Monitoring Station Number: RAN-2

GPS Coordinates: N       °       '       " W       °       '       "

Weather Conditions: Overcast

## Samples:

- ☒ 500 mL BOD
- ☒ 1 L Routine
- ☒ 250 mL Metals + Pres
- ☒ 40 mL Glass Mercury Vial + Pres
- ☒ 250 mL Amber Nutrients + Pres
- ☒ 250 mL Amber Phenols + Pres
- ☒ 125 mL Sterile Bacteria Bottle
- ☒ 2 x 500 mL Glass Oil & Grease + Pres

- ☐ 1 L Amber PAH + Pres
- ☐ 3 x 40 mL BTEX, F1 Vials + Pres
- ☐ 2 x 60 mL Amber F2-F4 Vials + Pres

## Other:

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Other Notes: (any unusual conditions, any deviation from standard procedures, etc.)

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