

Roberta Judas

From: Taiga [Taiga@aandc-aadnc.gc.ca]
Sent: September-11-12 1:10 PM
To: Grace Angel
Subject: Emailing: 120771 - 1213 - FINAL REPORT, 120771 - 1213 - FINAL REPORT
Attachments: 120771 - 1213 - FINAL REPORT.pdf; 120771 - 1213 - FINAL REPORT.xls

Hi Grace,

Please see attached Final Report.

The message is ready to be sent with the following file or link attachments:

120771 - 1213 - FINAL REPORT
120771 - 1213 - FINAL REPORT

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Taiga Environmental Laboratory / Laboratoire Environnemental Taiga
Renewable Resources and Environment / Ressources renouvelables et environnement
Indian and Northern Affairs Canada / Affaires indiennes et du Nord Canada
4601 - 52 Avenue
Box 1500, Yellowknife, NT, X1A 2R3
e-mail: taiga@inac-ainc.gc.ca
phone: 867.669.2788
fax: 867.669.2718

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www.taiga.gc.ca

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*SUP*



**Taiga Environmental Laboratory**  
4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3  
Tel: (867)-669-2788 Fax: (867)-669-2718

**Taiga Batch No.:**  
120771

**- FINAL REPORT -**

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**Prepared For:** Community Government of Wekweeti

**Address:** P.O. Box 69  
Wekweeti, NT  
X1A 1W0

**Attn:** Grace Angel

**Facsimile:** (867) 713-2030

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**Final report has been reviewed and approved by:**

  
**Helene Harper**  
Manager

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**NOTES:**

- Test methods and data are validated by the laboratory's Quality Assurance Program. Taiga Environmental Laboratory is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) as a testing laboratory for specific tests registered with CALA.
- Routine methods are based on recognized procedures from sources such as
  - Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
  - Environment Canada
  - USEPA
- Samples shall be kept for thirty (30) days after the final report is issued. All microbiological samples shall be disposed of immediately upon completion of analysis to minimize biohazardous risks to laboratory personnel. Please contact the laboratory if you have any special requirements.
- Final results are based on the specific tests at the time of analysis and do not represent the conditions during sampling.

**ReportDate:** Tuesday, September 11, 2012  
**Print Date:** Tuesday, September 11, 2012

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Taiga Environmental Laboratory  
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Taiga Batch No.:  
120771

- CERTIFICATE OF ANALYSIS -

Client Sample ID: SNP001-2

Taiga Sample ID: 001

Client Project: W2007L3-0001  
Sample Type: Sewage Lagoon  
Received Date: 31-Aug-12  
Sampling Date: 30-Aug-12  
Sampling Time:  
Location: Snare Lake  
Report Status: Final

| Test Parameter                       | Result | Detection Limit | Units     | Analysis Date | Analytical Method * | Qualifier |
|--------------------------------------|--------|-----------------|-----------|---------------|---------------------|-----------|
| <b><u>Inorganics - Physicals</u></b> |        |                 |           |               |                     |           |
| pH                                   | 7.21   |                 | pH units  | 04-Sep-12     | SM4500-H:B          |           |
| Solids, Total Suspended              | 10     | 3               | mg/L      | 05-Sep-12     | SM2540:D            |           |
| <b><u>Inorganics - Nutrients</u></b> |        |                 |           |               |                     |           |
| Ammonia as Nitrogen                  | 4.93   | 0.005           | mg/L      | 04-Sep-12     | SM4500-NH3:         |           |
| Biochemical Oxygen Demand            | 13     | 2               | mg/L      | 31-Aug-12     | SM5210:B            |           |
| <b><u>Microbiology</u></b>           |        |                 |           |               |                     |           |
| Coliforms, Fecal                     | tntc   |                 | CFU/100mL | 31-Aug-12     | SM9222:D            | 74        |
| <b><u>Organics</u></b>               |        |                 |           |               |                     |           |
| Hexane Extractable Material          | 3.5    | 2.0             | mg/L      | 07-Sep-12     | EPA1664A            |           |
| <b><u>Trace Metals, Total</u></b>    |        |                 |           |               |                     |           |
| Mercury                              | < 0.01 | 0.01            | µg/L      | 01-Sep-12     | EPA200.8            |           |

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Taiga Batch No.:  
120771

- CERTIFICATE OF ANALYSIS -

Client Sample ID: SNP001-3

Taiga Sample ID: 002

Client Project: W2007L3-0001  
Sample Type: Snare Lake  
Received Date: 31-Aug-12  
Sampling Date: 30-Aug-12  
Sampling Time:  
Location: Snare Lake  
Report Status: Final

| Test Parameter                | Result  | Detection Limit | Units     | Analysis Date | Analytical Method * | Qualifer |
|-------------------------------|---------|-----------------|-----------|---------------|---------------------|----------|
| <u>Inorganics - Physicals</u> |         |                 |           |               |                     |          |
| pH                            | 7.12    |                 | pH units  | 04-Sep-12     | SM4500-H:B          |          |
| Solids, Total Suspended       | 4       | 3               | mg/L      | 05-Sep-12     | SM2540:D            |          |
| <u>Inorganics - Nutrients</u> |         |                 |           |               |                     |          |
| Ammonia as Nitrogen           | < 0.005 | 0.005           | mg/L      | 04-Sep-12     | SM4500-NH3:         |          |
| Biochemical Oxygen Demand     | < 2     | 2               | mg/L      | 31-Aug-12     | SM5210:B            |          |
| <u>Microbiology</u>           |         |                 |           |               |                     |          |
| Coliforms, Fecal              | < 1     | 1               | CFU/100mL | 31-Aug-12     | SM9222:D            |          |
| <u>Organics</u>               |         |                 |           |               |                     |          |
| Hexane Extractable Material   | < 2.0   | 2.0             | mg/L      | 07-Sep-12     | EPA1664A            |          |
| <u>Trace Metals, Total</u>    |         |                 |           |               |                     |          |
| Mercury                       | < 0.01  | 0.01            | µg/L      | 01-Sep-12     | EPA200.8            |          |

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Taiga Batch No.:  
120771

- CERTIFICATE OF ANALYSIS -

Client Sample ID: SNP001-4

Taiga Sample ID: 003

Client Project: W2007L3-0001  
Sample Type: Wetland/Dump  
Received Date: 31-Aug-12  
Sampling Date: 30-Aug-12  
Sampling Time:  
Location: Snare Lake  
Report Status: Final

| Test Parameter                       | Result | Detection Limit | Units    | Analysis Date | Analytical Method * | Qualifier |
|--------------------------------------|--------|-----------------|----------|---------------|---------------------|-----------|
| <b><u>Inorganics - Physicals</u></b> |        |                 |          |               |                     |           |
| pH                                   | 7.06   |                 | pH units | 04-Sep-12     | SM4500-H:B          |           |
| Solids, Total Suspended              | 34     | 3               | mg/L     | 05-Sep-12     | SM2540:D            |           |
| <b><u>Trace Metals, Total</u></b>    |        |                 |          |               |                     |           |
| Aluminum                             | 64.7   | 0.6             | µg/L     | 01-Sep-12     | EPA200.8            |           |
| Antimony                             | < 0.1  | 0.1             | µg/L     | 01-Sep-12     | EPA200.8            |           |
| Arsenic                              | 0.2    | 0.2             | µg/L     | 01-Sep-12     | EPA200.8            |           |
| Barium                               | 20.4   | 0.1             | µg/L     | 01-Sep-12     | EPA200.8            |           |
| Beryllium                            | < 0.1  | 0.1             | µg/L     | 01-Sep-12     | EPA200.8            |           |
| Cadmium                              | < 0.05 | 0.05            | µg/L     | 01-Sep-12     | EPA200.8            |           |
| Cesium                               | < 0.1  | 0.1             | µg/L     | 01-Sep-12     | EPA200.8            |           |
| Chromium                             | 0.5    | 0.1             | µg/L     | 01-Sep-12     | EPA200.8            |           |
| Cobalt                               | 0.4    | 0.1             | µg/L     | 01-Sep-12     | EPA200.8            |           |
| Copper                               | 1.3    | 0.2             | µg/L     | 01-Sep-12     | EPA200.8            |           |
| Iron                                 | 317    | 5               | µg/L     | 01-Sep-12     | EPA200.8            |           |
| Lead                                 | < 0.1  | 0.1             | µg/L     | 01-Sep-12     | EPA200.8            |           |

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120771

- CERTIFICATE OF ANALYSIS -

Client Sample ID: SNP001-4

Taiga Sample ID: 003

|            |        |      |      |           |          |
|------------|--------|------|------|-----------|----------|
| Lithium    | 1.1    | 0.2  | µg/L | 01-Sep-12 | EPA200.8 |
| Manganese  | 40.8   | 0.1  | µg/L | 01-Sep-12 | EPA200.8 |
| Mercury    | < 0.01 | 0.01 | µg/L | 01-Sep-12 | EPA200.8 |
| Molybdenum | 0.1    | 0.1  | µg/L | 01-Sep-12 | EPA200.8 |
| Nickel     | 1.1    | 0.1  | µg/L | 01-Sep-12 | EPA200.8 |
| Rubidium   | 3.9    | 0.1  | µg/L | 01-Sep-12 | EPA200.8 |
| Selenium   | < 0.3  | 0.3  | µg/L | 01-Sep-12 | EPA200.8 |
| Silver     | < 0.1  | 0.1  | µg/L | 01-Sep-12 | EPA200.8 |
| Strontium  | 71.3   | 0.1  | µg/L | 01-Sep-12 | EPA200.8 |
| Thallium   | < 0.1  | 0.1  | µg/L | 01-Sep-12 | EPA200.8 |
| Titanium   | 2.1    | 0.1  | µg/L | 01-Sep-12 | EPA200.8 |
| Uranium    | 0.1    | 0.1  | µg/L | 01-Sep-12 | EPA200.8 |
| Vanadium   | 0.6    | 0.1  | µg/L | 01-Sep-12 | EPA200.8 |
| Zinc       | 3.1    | 0.4  | µg/L | 01-Sep-12 | EPA200.8 |

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Taiga Batch No.:  
120771

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- CERTIFICATE OF ANALYSIS -

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Client Sample ID: SNP001-4

Taiga Sample ID: 003

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- DATA QUALIFIERS -

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*Data Qualifier Descriptions:*

74 *Unable to repeat analysis at higher dilution. Holding time exceeded.*

\* Taiga analytical methods are based on the following standard analytical methods

SM - Standard Methods for the Examination of Water and Wastewater

EPA - United States Environmental Protection Agency

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| Client Name   | Taiga Sample ID | Client Sample ID | Sample Type   | Sampling Location | Sample Collect Date | Sample Received Date | Test Group Name | Lab Section  | Parameter Name   | Result Flag | Reported Result | UNITS     | Calc MDL | Sample Result Quality | Analysis Result Quality | Analysis Date | Prep Method     | Test Method  | Report Status |
|---------------|-----------------|------------------|---------------|-------------------|---------------------|----------------------|-----------------|--------------|------------------|-------------|-----------------|-----------|----------|-----------------------|-------------------------|---------------|-----------------|--------------|---------------|
| Government of | 120771-001      | SNP001-2         | Sewage Lagoon | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Ammonia as N    | Nutrients    | Nitrogen         |             | 4.93            | mg/L      | 0.005    |                       |                         | 04-Sep-12     | Split/Preserved | SM4500-NH3-G | Final         |
| Government of | 120771-001      | SNP001-2         | Sewage Lagoon | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Oxygen          | Nutrients    | Oxygen           |             | 13              | mg/L      | 2        |                       |                         | 31-Aug-12     | None            | SM5210-B     | Final         |
| Government of | 120771-001      | SNP001-2         | Sewage Lagoon | Snare Lake        | 30-Aug-12           | 31-Aug-12            | pH              | Physicals    | pH               |             | 7.21            | pH units  |          |                       |                         | 04-Sep-12     | None            | SM4500-H-B   | Final         |
| Government of | 120771-001      | SNP001-2         | Sewage Lagoon | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Suspended       | Physicals    | Suspended        |             | 10              | mg/L      | 3        |                       |                         | 05-Sep-12     | None            | SM2540-D     | Final         |
| Government of | 120771-001      | SNP001-2         | Sewage Lagoon | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Fecal Coliform  | Microbiology | Coliforms, Fecal |             | tntc            | CFU/100mL |          | 74                    |                         | 31-Aug-12     | None            | SM9222-D     | Final         |
| Government of | 120771-001      | SNP001-2         | Sewage Lagoon | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Extractable     | Organics     | Extractable      |             | 3.5             | mg/L      | 2.0      |                       |                         | 07-Sep-12     | None            | EPA1664A     | Final         |
| Government of | 120771-001      | SNP001-2         | Sewage Lagoon | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Mercury          | <           | 0.01            | µg/L      | 0.01     |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-002      | SNP001-3         | Snare Lake    | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Ammonia as N    | Nutrients    | Nitrogen         | <           | 0.005           | mg/L      | 0.005    |                       |                         | 04-Sep-12     | Split/Preserved | SM4500-NH3-G | Final         |
| Government of | 120771-002      | SNP001-3         | Snare Lake    | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Oxygen          | Nutrients    | Oxygen           | <           | 2               | mg/L      | 2        |                       |                         | 31-Aug-12     | None            | SM5210-B     | Final         |
| Government of | 120771-002      | SNP001-3         | Snare Lake    | Snare Lake        | 30-Aug-12           | 31-Aug-12            | pH              | Physicals    | pH               |             | 7.12            | pH units  |          |                       |                         | 04-Sep-12     | None            | SM4500-H-B   | Final         |
| Government of | 120771-002      | SNP001-3         | Snare Lake    | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Suspended       | Physicals    | Suspended        |             | 4               | mg/L      | 3        |                       |                         | 05-Sep-12     | None            | SM2540-D     | Final         |
| Government of | 120771-002      | SNP001-3         | Snare Lake    | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Fecal Coliform  | Microbiology | Coliforms, Fecal | <           | 1               | CFU/100mL | 1        |                       |                         | 31-Aug-12     | None            | SM9222-D     | Final         |
| Government of | 120771-002      | SNP001-3         | Snare Lake    | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Extractable     | Organics     | Extractable      | <           | 2.0             | mg/L      | 2.0      |                       |                         | 07-Sep-12     | None            | EPA1664A     | Final         |
| Government of | 120771-002      | SNP001-3         | Snare Lake    | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Mercury          | <           | 0.01            | µg/L      | 0.01     |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | pH              | Physicals    | pH               |             | 7.06            | pH units  |          |                       |                         | 04-Sep-12     | None            | SM4500-H-B   | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Suspended       | Physicals    | Suspended        |             | 34              | mg/L      | 3        |                       |                         | 05-Sep-12     | None            | SM2540-D     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Aluminum         |             | 64.7            | µg/L      | 0.6      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Antimony         | <           | 0.1             | µg/L      | 0.1      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Arsenic          |             | 0.2             | µg/L      | 0.2      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Barium           |             | 20.4            | µg/L      | 0.1      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Beryllium        | <           | 0.1             | µg/L      | 0.1      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Cadmium          | <           | 0.05            | µg/L      | 0.05     |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Cesium           | <           | 0.1             | µg/L      | 0.1      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Chromium         |             | 0.5             | µg/L      | 0.1      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Cobalt           |             | 0.4             | µg/L      | 0.1      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Copper           |             | 1.3             | µg/L      | 0.2      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Iron             |             | 317             | µg/L      | 5        |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Lead             | <           | 0.1             | µg/L      | 0.1      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Lithium          |             | 1.1             | µg/L      | 0.2      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Manganese        |             | 40.8            | µg/L      | 0.1      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Mercury          | <           | 0.01            | µg/L      | 0.01     |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Molybdenum       |             | 0.1             | µg/L      | 0.1      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Nickel           |             | 1.1             | µg/L      | 0.1      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Rubidium         |             | 3.9             | µg/L      | 0.1      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Selenium         | <           | 0.3             | µg/L      | 0.3      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Silver           | <           | 0.1             | µg/L      | 0.1      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Strontium        |             | 71.3            | µg/L      | 0.1      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Thallium         | <           | 0.1             | µg/L      | 0.1      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Titanium         |             | 2.1             | µg/L      | 0.1      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Uranium          |             | 0.1             | µg/L      | 0.1      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Vanadium         |             | 0.6             | µg/L      | 0.1      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |
| Government of | 120771-003      | SNP001-4         | Wetland/Dump  | Snare Lake        | 30-Aug-12           | 31-Aug-12            | Total           | Total        | Zinc             |             | 3.1             | µg/L      | 0.4      |                       |                         | 01-Sep-12     | Acid Digest     | EPA200.8     | Final         |