INAC, Nunavut District Office
P.O. Box 100
Iqaluit, NU
X0A 0H0

tel.: (867) 975-4275
fax.: (867) 979-6445

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September 19, 2001.

David Qamamiq
Senior Administrative Officer
Hamlet of Pond Inlet
P.O. Box 180
Pond Inlet, NU X0A 0S0

June 26, 2001 Water Licence Inspection - Report

Firstly, I wish to thank Joanasie Naqitarvik for the much appreciated time and assistance provided during the tour of the Municipality's water use and waste disposal facilities. Attached for your records is the Municipal Water Use Inspection Report pertaining to the June 26, 2001 inspection; several matters, some of which are outstanding since the previous inspection, were noted. Consequently, the following considerations will need to be addressed:

- **Water supply:** Due to the recurring failure of the generator at the water supply facility, direct truck intake has been relocated to the shoreline of Salmon reservoir (figure 1). Although absorbing pads and booms have been deployed at the temporary intake station, patches of oil sheen were nonetheless observed on the surface of the water supply. It was therefore mentioned at the time of the inspection that the Licensee ought to take measures to prevent further deposit of waste into the reservoir. Accordingly, the Licensee has since approached the Nunavut Water Board (NWB) to use Salmon Creek as a water source, likely until the expected new generator arrives on the summer's sealift. This being said, the attached analytical results indicate that the water at the temporary truckfill station meets the *Guidelines for Canadian Drinking Water Quality*, save for a slight exception: a turbidity value of 1.9 Nephelometric Turbidity Unit (NTU), which rests above the 1 NTU maximum acceptable concentration but below the 5 NTU aesthetic objective.

- **Sewage disposal:** Discharge from the area around the sewage lagoon's decant structure was ongoing at the time of the inspection (figure 2). While a berm had been erected in the vicinity, it did not appear to extend to where remained patches of frozen effluent along the hillside downslope of the decant. The attached analytical results relating to a sample taken thirty metres below the lagoon decant reveal that the level of ammonia (6.6 mg/L vs 2.2 mg/L) exceeds the *Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic Life*. However, due to scheduling delays, bacteriological parameters could not be analysed.

Also noticeable was trickling seepage from the saturated material at the base of the sewage lagoon's NE corner (figure 3). In addition to the slumping and cracking of the sewage lagoon berm in the NE corner, the presence of pooled water adjacent to the sewage lagoon's berms alongside the waste oil cell and the toe of the dump poses some concerns. In fact, this might lead to the migration of fluids through the berms, and/or the weakening of the sewage lagoon's containment structures. In related matters, the old sewage disposal facility was discharging through the decant notch in the northern berm (figure 4), and flowing overland towards the ocean (figure 5). The attached analytical results relating to a sample taken at the point of discharge reveal that the level of ammonia (2.95 mg/L) faintly exceeds the *Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic Life*. However, as was the case for the new sewage lagoon, the microtox sample did not attribute toxicity to the effluent.

- **Waste oil disposal:** The state of the waste oil storage cell has deteriorated since the previous inspection. Indeed, waste oil drums, some of which have toppled and are now leaking into nearby waters (figure 6), are still being stockpiled in and around the cell (figure 7). Further, in addition to the oil obviously contained within the cell, several sheen patches were also noted on the water pooled along the toe of the solid waste disposal facility (figure 8). During the inspection, it was related that a waste oil furnace is available in the community, but remains unused for unknown reasons. In light of this, disposing of the accumulated waste oil in such a manner would prevent more leakage to compound to the problem before the waste oil storage cell is properly reclaimed.

- **Solid waste disposal:** The solid waste disposal facility seems well managed, as waste is segregated and appropriately handled (figure 9). However, the pooled water along the toe of the wastepile may imply leachate considerations. In parallel, the attached analytical results relating to a sample of runoff flowing through the bulky metal wastes disposal facility reveals the following: levels of chromium (65 μg/L vs 8.9 μg/L), copper (57 μg/L vs 4.0 μg/L), iron (3.51 mg/L vs 0.3 mg/L), lead (69 μg/L vs 7.0 μg/L), and zinc (375 μg/L vs 30 μg/L) exceed the *Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic Life*.

- **Spills:** The following represents a summary of the five (5) Spill Report files on record for 2001, and outlines either recommended closure or planned/expected additional follow-up measures to be undertaken.
  - 01-183: unknown volume of hydraulic/transmission oil and/or antifreeze leaking from water trucks into the water supply. The ice on which the spill occurred has since melted, and corrective measures have been undertaken to ensure that no additional waste be deposited into the municipal water supply; expected to revert to the truckfill station once new generator received on summer's sealift. Recommend file closure.
  - 01-184: unknown volume of raw sewage leaking from berm around the lagoon's decant structure and freezing downslope. Cannot recommend file closure before repairs on the decant structure have been completed, or the lagoon has been decommissioned.

- 01-213: unknown volume of waste oil spilled from the waste oil storage cell. Cannot recommend file closure until the waste oil storage cell and associated waste oil drums, the likely source of the spill, have been adequately decommissioned. The Hamlet has requested assistance concerning possible reclamation options for the site.
- 01-214: unknown volume of waste oil leaking from drums improperly disposed of at the metal dump. A sample of the spillage was collected during the inspection, and the attached analytical result (Oil/Greases at 1 730 mg/L) is rather unequivocal. At the time of the inspection, the Licensee ensured that an excavator would immediately construct a ditch or berm ro contain the spill. Cannot recommend file closure before the cleanup is assessed.
- 01-233: an estimated 500 L of raw sewage seeping through the lagoon's berms. Corrective measures have been undertaken, as well as a geotechnical inspection of the facility. However, cannot recommend file closure before the issue of recurring seepage at the sewage lagoon is definitely addressed.

- **Non-compliance of Act or Licence:** Although assistance has been provided and the Licensee assured that documents would shortly be submitted, the NWB has yet to receive the 1999 and 2000 Annual Reports, an Operation and Maintenance (O&M) plan for the waste disposal facilities, and a report relating the Abandonment and Restoration (A&R) of municipal water use and waste disposal facilities. Further, concerning the structural integrity matters at the sewage lagoon, the Licensee has of late been handling the issue adequately and has initiated corrective measures; as the approved Water licence amendment seems to testify.

Please feel free to contact me at (867) 975-4298 or lavalleep@inac.gc.ca should any questions/comments arise.

Sincerely,

Philippe Lavallée
Water Resources Officer
INAC, Nunavut District

c.c. - Nunavut Water Board, Gjoa Haven
- CG&T, Iqaluit (Doug Sitland)
- Baffin Health & Social Services, Iqaluit (Shaun Mackie)
- EC Environmental Protection, Yellowknife (Anne Wilson)
- DFO Habitat Management, Iqaluit (Jordan DeGroot)

Indian and Northern Affairs Canada | Affaires Indiennes et du Nord Canada

MUNICIPAL WATER USE INSPECTION FORM

Date: 2001/06/26 **Licensee Rep.** (Name/Title): Joanasie Naqitarvik / acting-Foreman

Licensee: Hamlet of Pond Inlet **Licence No.:** NWB3PON9904

WATER SUPPLY

Source(s): Salmon River/Reservoir **Quantity used:** meter @ 284 332 800 L

Owner:/Operator: Hamlet

Indicate: **A** - Acceptable **U** - Unacceptable **NA** - Not Applicable **NI** - Not Inspected

Intake Facilities: U **Storage Structure:** NA **Treatment Systems:** A **Chemical Storage:** A

Flow Meas. Device: A **Convey. Lines:** NA **Pumping Stations:** U

Comments: The generator at the water supply facility has been in disrepair since springtime. Direct truck intake has been relocated to the shoreline of the reservoir; absorbing pads and booms are deployed, but some oil sheen was nonethcless noted on the surface of the water. A mixture of rusty water and oil has accumulated in the secondary containment of the fuel tank by the generator shed.

WASTE DISPOSAL

Sewage: **Sewage Treatment System** (Prim./Sec/Ter.): primary, overland to ocean

Natural Water Body: modified **Continuous Discharge** (land or water):

Seasonal Discharge: x **Wetlands Treatment:** limited **Trench:** NA

Solid Waste: **Owner/Operator:** Hamlet

Landfill: **Burn & Landfill:** x **Other:**

Indicate: **A** - Acceptable **U** - Unacceptable **NA** - Not Applicable **NI** - Not Inspected

Discharge Quality: sampled **Decant Structure:** NI **Erosion:** A

Discharge Meas. Device: none **Dyke Inspection:** A **Seepages:** U

Dams, Dykes: U **Freeboard:** A **Spills:** 01-183/184/213/214/233

Construction: NA **O&M Plan:** U **A&R Plan:** U

Periods of Discharge: A **Effluent Discharge Rate:** not measured

Comments: The sewage lagoon's decant structure could not be inspected due to snow cover, although sewage effluent was discharging in the area and was still frozen in patches along the hillside. A berm has been erected in the vicinity. Slumping/cracking of the sewage lagoon's NE berm observed; trickling seepage through the saturated material at the base of the NE corner. Berm built in the vicinity. Old sewage lagoon discharging through decant notch. Pooled water adjacent to the sewage lagoon's berms, along the waste oil cell and the toe of the dump. Waste oil drums leaking/uncovered/toppled; sheen in waste oil cell and nearby waters. Household waste is burnt daily, wastepile is compacted/covered periodically. Runoff flows through the bulky metal wastes disposal site. Oil spill noted along the eastern flank of the metal dump. O&M and A&R plans not submitted.

FUEL STORAGE

Owner/Operator:

Indicate: **A** - Acceptable **U** - Unacceptable **NA** - Not Applicable **NI** - Not Inspected

Berms & Liners: **Water within Berms:** **Evidence of Leaks:**

Drainage Pipes: **Pump Station & Catchment Berm:**

Pipeline Condition: **Not Applicable:** x **Condition of Tanks:**

SURVEILLANCE NETWORK PROGRAM (SNP)

Samples Collected **Hamlet:** None

INAC: raw water, old sewage lagoon, sewage lagoon, metal dump, oil spill

Signs Posted **SNP:** **Warning:**

Records & Reporting: no Annual Report, no O&M Plan, no A&R Plan

Geotechnical Inspection: Undertaken since the inspection

Non-Compliance of Act or Licence: 1999 and 2000 Annual Reports, Operation and Maintenance (O&M) Plan, and Abandonment and Restoration (A&R) Plan not submitted.

Philippe Lavallée

Inspector's Name **Inspector's Signature**

figure 1. Temporary truckfill station on shoreline of Salmon reservoir; 2001/06/26.

figure 2. Path of discharge from the sewage lagoon's decant area; 2001/06/26.

figure 3. Seepage from the NE corner of the sewage lagoon; 2001/06/26.

figure 4. Old sewage disposal facility; 2001/06/26.

figure 5. Path of discharge from the old sewage disposal facility; 2001/06/26.

figure 6. Pooled water alongside the waste oil cell and the sewage lagoon; 2001/06/26.

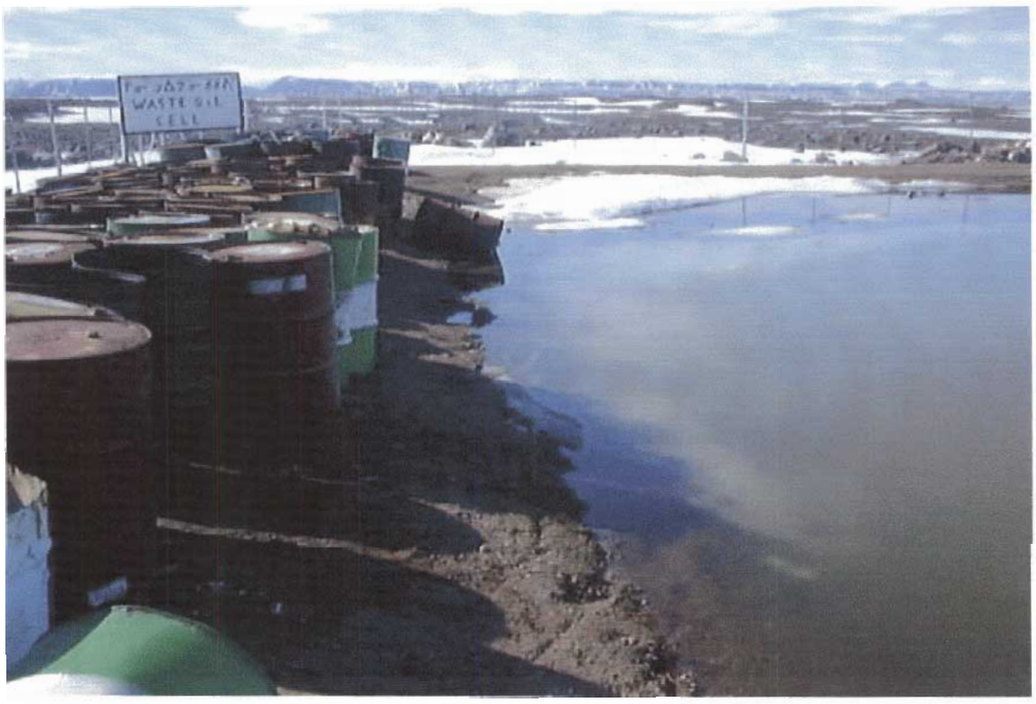

figure 7. Waste oil storage cell; 2001/06/26.

figure 8. Pooled water between the waste oil cell and the dump; 2001/06/26.

figure 9. Solid waste disposal facility; 2001/06/26.

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

- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND District Office : Nunavut DIAND Operations *Attn:* Philippe Lavalllee

Sample ID: Raw Water Pon-1 **Taiga Sample ID:** 211411

Client Project: **Sample Type:** water **Received Date:** 29-Jun-01

Location: Raw Water Pon-1 **Sampling Date:** 26-Jun-01

Report Status: **Final** *Approved by:*

RECEIVED
AUG 16 2001

Lab Section	Test Parameter	Result	Units	Detection Limit	Analysis Date
Major Ions	Chloride	1.9	mg/L	0.2	03-Jul-01
	Sodium	0.98	mg/L	0.02	11-Jul-01
	Sulphate	3	mg/L	3	13-Jul-01
Nutrients	Ammonia as N	< 0.005	mg/L	0.005	16-Jul-01
	Nitrate+Nitrite as N	< 0.008	mg/L	0.008	04-Jul-01
Physicals	Colour	10		5	05-Jul-01
	Solids, Total Dissolved	77	mg/L	10	26-Jul-01
	Turbidity	1.9	NTU	0.1	05-Jul-01
Total Metals	Arsenic	< 1.0	µg/L	1.0	13-Jul-01
	Cadmium	< 0.3	µg/L	0.3	04-Jul-01
	Chromium	< 3	µg/L	3	04-Jul-01
	Cobalt	< 1	µg/L	1	04-Jul-01
	Copper	< 2	µg/L	2	04-Jul-01
	Iron	181	µg/L	30	06-Jul-01

Report Date: Tuesday, July 31, 2001

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- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND District Office : Nunavut DIAND Operations *Attn:* Philippe Lavalllee

Sample ID: Raw Water Pon-1 **Taiga Sample ID: 211411**

Total Metals	Lead	4	µg/L	1	04-Jul-01
	Manganese	8	µg/L	1	04-Jul-01
	Mercury	< 0.01	µg/L	0.01	10-Jul-01
	Nickel	1	µg/L	1	04-Jul-01
	Zinc	18	µg/L	10	04-Jul-01

Field Data (01/06/26) **raw water**
Temperature: 4.5 °C
Conductivity: 20 µS/cm
pH: 7.4 Time: 11:25

Report Date: Tuesday, July 31, 2001

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Tel: (867)-669-2788
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- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND District Office : Nunavut DIAND Operations *Attn:* Philippe Lavalllee

Sample ID: PON-3 Lagoon Discharge **Taiga Sample ID:** 211389

Client Project: **Sample Type:** water **Received Date:** 29-Jun-01

Location: ~~159-12 blank~~ **Sampling Date:** 27-Jun-01

Report Status: Final *Approved by:*

Lab Section	Test Parameter	Result	Units	Detection Limit	Analysis Date	Data Qualifier
Major Ions	Calcium	2.03	mg/L	0.05	05-Jul-01	
	Magnesium	1.82	mg/L	0.02	05-Jul-01	
	Potassium	8.77	mg/L	0.03	05-Jul-01	
	Sodium	32.0	mg/L	0.02	05-Jul-01	
	Sulphate	17	mg/L	3	13-Jul-01	
Nutrients	Ammonia as N	6.60	mg/L	0.005	29-Jul-01	
	Nitrate+Nitrite as N	3.71	mg/L	0.008	04-Jul-01	
Organic	Phenols	< 2	µg/L	2	19-Jul-01	
Physicals	Conductivity, Specific	229	µS/cm	0.3	10-Jul-01	11
	pH	6.89	pH units	0.05	10-Jul-01	11
	Solids, Total Suspended	15	mg/L	3	25-Jul-01	

Report Date: August 8, 2001

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

- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND District Office : Nunavut DIAND Operations *Attn:* Philippe Lavalllee

Sample ID: PON-3 Lagoon Discharge **Taiga Sample ID:** 211389

Data Qualifier Descriptions:

11 Holding time exceeded before sample analysis

Field Data (01/06/26) **PON-3**
Temperature: 4.0 °C
Conductivity: 231 µS/cm
pH: 8.3 **Time:** 09:35

Report Date: August 8, 2001

REPORT OF TOXICITY USING MICROTOX

COMPANY/LOCATION: **Pond Inlet Lagoon Discharge**

Sample Collected By: Philippe Lavallee

Date/Time Sampled: June 27, 2001

Date/Time Received: June 29, 2000

Date/Time Test Start: July 04, 2001

Sample Type: Elutriate
Sampling Method: Grab

Method: ***Environment Canada Laboratories SOP#830.0 Revision 1, for Microtox Testing in Compliance with November 1992: Biological Test Method: Toxicity Test Using Luminescent Bacteria Photobacterium phosphoreum), November 1992, EPS 1/RM/24.***

RESULTS: **NON TOXIC at 45% concentration**

TEST ORGANISMS:
Species: Vibrio fisheri (Photobacterium phosphoreum)
Test Apparatus: Model 500 Analyzer

TEST SUBSTANCE/CONDITIONS

pH of Sample: _N/A_ (No pH adjustment)

Sample Appearance: Clear, no colour adjustment

Lot # of OAS: OSA007
(Osmotic Adjusting Solution)

Lot # of Reconstitution Solution: RSN099Y

Lot # of Diluent: DIL034L

TEST METHODS AND CONDITIONS

Test Start Date/Time: July 04, 2001 / 02:52 PM

Test Method: Basic 45% Test, 15 minute incubation.

QUALITY CONTROL

Reference Toxicant: Zinc Sulfate Standard

Analyst: Wade Romanko

Date of Test: July 04, 2001

Reagent Lot #: ACV022-2

IC_{50} - 15 minutes mg/L: 2.9 mg/L

IC_{50} Confidence Range: 1.4 to 6.2 mg/L

TEST ANALYST: Wade Romanko

INITIAL: WR

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

- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND District Office : Nunavut DIAND Operations *Attn:* Philippe Lavalllee

Sample ID: OLD LAGOON **Taiga Sample ID:** 211413

Client Project: **Sample Type:** **Received Date:** 29-Jun-01

Location: Pond Inlet Lagoon **Sampling Date:** 26-Jun-01

Report Status: **Final** ***Approved by:***

Lab Section	Test Parameter	Result	Units	Detection Limit	Analysis Date
Nutrients	Ammonia as N	2.95	mg/L	0.005	16-Jul-01
	Nitrate+Nitrite as N	0.106	mg/L	0.008	04-Jul-01
	Phosphorous, Total	0.353	mg/L	0.004	06-Jul-01
Organic	Phenols	<2	µg/L	2	19-Jul-01
Physicals	Solids, Total Suspended	19	mg/L	3	26-Jul-01

Field Data (01/06/26) old lagoon
Temperature: 7.5 °C
Conductivity: 97 µS/cm
pH: 7.3 Time: 11:06

Report Date: Tuesday, July 31, 2001

REPORT OF TOXICITY USING MICROTOX

COMPANY/LOCATION: **Pond Inlet Old Lagoon**

Sample Collected By: Philippe Lavallee

Date/Time Sampled: June 26, 2001

Date/Time Received: N/A

Date/Time Test Start: July 17, 2001

Sample Type: Elutriate
Sampling Method: Grab

Method: ***Environment Canada Laboratories SOP#830.0 Revision 1, for Microtox Testing in Compliance with November 1992: Biological Test Method: Toxicity Test Using Luminescent Bacteria Photobacterium phosphoreum), November 1992, EPS 1/RM/24.***

RESULTS: **NON TOXIC at 45% Concentration**

TEST ORGANISMS:
Species: Vibrio fisheri (Photobacterium phosphoreum)
Test Apparatus: Model 500 Analyzer

TEST SUBSTANCE/CONDITIONS

pH of Sample: 7.3 (No pH adjustment)

Sample Appearance: Clear, no colour adjustment

Lot # of OAS: OSA007
(Osmotic Adjusting Solution)

Lot # of Reconstitution Solution: RSN099Y

Lot # of Diluent: DIL034L

TEST METHODS AND CONDITIONS

Test Start Date/Time: July 17, 2001 / 03:38 PM

Test Method: Basic 45% Test, 15 minute incubation.

QUALITY CONTROL

Reference Toxicant: Zinc Sulfate Standard

Analyst: RB

Date of Test: July 17, 2001

Reagent Lot #: ACV022-2

IC_{50} - 15 minutes mg/L: 3.1 mg/L

IC_{50} Confidence Range: 2.4 to 4.0 mg/L

TEST ANALYST: Ron Bujold

INITIAL: RB

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

- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND District Office : Nunavut DIAND Operations *Attn:* Philippe Lavalllee

Sample ID: Metal Dump **Taiga Sample ID:** 211412

Client Project: **Sample Type:** water **Received Date:** 29-Jun-01

Location: Metal Dump **Sampling Date:** 26-Jun-01

Report Status: **Final** ***Approved by:***

Lab Section	Test Parameter	Result	Units	Detection Limit	Analysis Date
Major Ions	Chloride	9.6	mg/L	0.2	03-Jul-01
	Sodium	2.96	mg/L	0.02	11-Jul-01
	Sulphate	25	mg/L	3	13-Jul-01
Nutrients	Ammonia as N	0.320	mg/L	0.005	16-Jul-01
	Nitrate+Nitrite as N	0.107	mg/L	0.008	04-Jul-01
Physicals	Solids, Total Dissolved	139	mg/L	10	26-Jul-01
Total Metals	Arsenic	3.1	µg/L	1.0	13-Jul-01
	Cadmium	1.3	µg/L	0.3	04-Jul-01
	Chromium	65	µg/L	3	04-Jul-01
	Cobalt	16	µg/L	1	04-Jul-01
	Copper	57	µg/L	2	04-Jul-01
	Iron	3510	µg/L	30	06-Jul-01
	Lead	69	µg/L	1	04-Jul-01
	Manganese	382	µg/L	1	04-Jul-01

Report Date: Tuesday, July 31, 2001

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Tel: (867)-669-2788
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- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND District Office : Nunavut DIAND Operations *Attn:* Philippe Lavalllee

Sample ID: Metal Dump **Taiga Sample ID: 211412**

Total Metals	Mercury	< 0.01	µg/L	0.01	10-Jul-01
	Nickel	56	µg/L	1	04-Jul-01
	Zinc	375	µg/L	10	04-Jul-01

Field Data (01/06/26) **metal dump**
Temperature: 11.0 °C
Conductivity: 93 µS/cm
pH: 7.7 **Time:** 10:42

Report Date: Tuesday, July 31, 2001

REPORT OF TOXICITY USING MICROTOX

COMPANY/LOCATION: **Pond Inlet - PON-2 ~~Lagoon~~ Discharge**

Sample Collected By: Philippe Lavallee

Date/Time Sampled: June 26, 2001

Date/Time Received: N/A

Date/Time Test Start: July 24, 2001

Sample Type: Elutriate
Sampling Method: Grab

Method: ***Environment Canada Laboratories SOP#830.0 Revision 1, for Microtox Testing in Compliance with November 1992: Biological Test Method: Toxicity Test Using Luminescent Bacteria Photobacterium phosphoreum), November 1992, EPS 1/RM/24.***

RESULTS: **NON TOXIC at 45% Concentration**

TEST ORGANISMS:
Species: Vibrio fisheri (Photobacterium phosphoreum)
Test Apparatus: Model 500 Analyzer

TEST SUBSTANCE/CONDITIONS

pH of Sample: 7.0 (No pH adjustment)

Sample Appearance: Clear, no colour adjustment

Lot # of OAS: OSA007
(Osmotic Adjusting Solution)

Lot # of Reconstitution Solution: RSN099Y

Lot # of Diluent: DIL034L

TEST METHODS AND CONDITIONS

Test Start Date/Time: July 24, 2001 / 12:56 PM

Test Method: Basic 45% Test, 15 minute incubation.

QUALITY CONTROL

Reference Toxicant: Zinc Sulfate Standard

Analyst: RB

Date of Test: July 24, 2001

Reagent Lot #: ACV023-3

IC_{50} - 15 minutes mg/L: 2.7 mg/L

IC_{50} Confidence Range: 1.8 to 3.9 mg/L

TEST ANALYST: Ron Bujold

INITIAL: RB

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Fax: (867)-669-2718

- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND District Office : Nunavut DIAND Operations *Attn:* Philippe Lavalllee

Sample ID: Pond Inlet Dump Leachate **Taiga Sample ID:** 211390

Client Project: **Sample Type:** water **Received Date:** 29-Jun-01

Location: Pond Inlet Dump Leachate **Sampling Date:** 29-Jun-01

Report Status: **Final** *Approved by:*

Lab Section	Test Parameter	Result	Units	Detection Limit	Analysis Date
Organic	Oil and Grease	1730	mg/L	0.2	09-Jul-01

Report Date: July 17, 2001