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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

File No.: **1BR-SAR0607**

July 14, 2006

Natalie Plato
Director, Contaminated Sites
Indian and Northern Affairs Canada, Nunavut Regional Office
Building 1553, P.O. Box 2200
Iqaluit, NU X0A 0H0

RE: NWB Licence No. 1BR-SAR0607

Dear Ms. Plato:

Please find attached Licence No. **1BR-SAR0607** issued to Indian and Northern Affairs Canada by the Nunavut Water Board (**Motion #: 2006--31**) pursuant to its authority under Article 13 of the *Agreement between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in Right of Canada*. The terms and conditions of the attached Licence related to water use and waste disposal are an integral part of this approval.

Sincerely,

Philippe di Pizzo
Chief Administrative Officer

/sg

Enclosure: Licence No. **1BR-SAR0607**

cc: Jared Buchko, Public Works and Government Services Canada
Mark Yetman, Indian and Northern Affairs Canada
Lou Spanguolo, Indian and Northern Affairs Canada
Jim Rogers, INAC
Peter Kusugak DIAND Inspector
Jack Kaniak, Kitikmeot Inuit Association
Erin Calder, Nunavut Wildlife Management Board
Colette Spagnuolo, Environment Canada
Earle Baddaloo, GN-DOE
Tania Gordanier, Department of Fisheries and Oceans
Carson Gillis, NTI
Doug Sitland, CGS



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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

DECISION

LICENCE NUMBER: 1BR-SAR0607

This is the decision of the Nunavut Water Board (NWB) with respect to an application for a renewal of Licence dated April 7, 2005 made by:

INDIAN AND NORTHERN AFFAIRS CANADA

to allow for the use of water and disposal of waste during camp operations, site restoration and demolition of facilities at the CAM-F, Sarcpa Lake Project located within the Qikiqtani Region, Nunavut (located at the general latitude of 68°33' and general longitude 83°19' W).

DECISION

After having been satisfied that the application was in conformity with the applicable Land Use Plan and exempt from the requirement for screening by the Nunavut Impact Review Board in accordance with Schedule 12.1, Paragraph 5 of the *Nunavut Land Claim Agreement* (NLCA), the NWB decided that the application could proceed through the regulatory process. In accordance with S.55.1 of the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* (NWNSRTA) and Article 13 of the *NLCA*, public notice of the application was given and interested persons were invited to make representations to the NWB.

After reviewing the submission of the Applicant and representations made by interested persons, the NWB, having given due regard to the facts and circumstances, the merits of the submissions made to it and to the purpose, scope and intent of the *NLCA* and of the *NWNSRTA*, decided to waive the requirement to hold a public hearing and determined that:

Licence Number 1BR-SAR0607 be issued subject to the terms and conditions contained therein. (Motion #: 2006 - 31)

SIGNED this 14th day of July 2006 at Gjoa Haven, NU.

Philippe di Pizzo
Chief Administrative Officer

TABLE OF CONTENTS

I.	INTRODUCTION	1
II.	GENERAL CONSIDERATIONS.....	1
A.	TERM OF THE LICENCE	1
B.	ANNUAL REPORT.....	1
C.	SPILL CONTINGENCY PLANNING	1
D.	ABANDONMENT AND RESTORATION (A&R)	2
III.	LICENCE 1BR-SAR0607	3
PART A:	SCOPE, DEFINITIONS AND ENFORCEMENT.....	4
PART B:	GENERAL CONDITIONS.....	7
PART C:	CONDITIONS APPLYING TO WATER USE AND THE PROTECTION OF WATER.....	9
PART D:	CONDITIONS APPLYING TO WASTE DISPOSAL.....	10
PART E:	CONDITIONS FOR CAMPS, ACCESS INFRASTRUCTURES AND OPERATIONS.....	11
PART F:	CONDITIONS APPLYING TO DRILLING OPERATIONS.....	13
PART G:	CONDITIONS APPLYING TO MODIFICATIONS	13
PART H:	CONDITIONS APPLYING TO SPILL CONTINGENCY PLANNING	14
PART I:	CONDITIONS APPLYING TO ABANDONMENT AND RESTORATION	15
PART J:	CONDITIONS APPLYING TO THE MONITORING PROGRAM	16

I. INTRODUCTION

On April 7, 2005 a water licence application was filed with the Nunavut Water Board by Indian and Northern Affairs Canada for water use and waste disposal activities during camp operations, site restoration and demolition of facilities at Sarcpa Lake, CAM-F, located within the Qikiqtani Region, Nunavut (general latitude 68°33' and general longitude 83°19' W). This application was supplemented with additional information by the Licensee between January and May 2006. After having been satisfied that the application was exempt from the requirement for screening by the Nunavut Impact Review Board in accordance with Schedule 12.1, Paragraph 5 of the *Nunavut Land Claim Agreement (NLCA)*, the NWB decided that the application could proceed through the regulatory process.

In accordance with S.55.1 of the *Nunavut Waters and Nunavut Surface Rights Tribunal Act (NWNSRTA)* and Article 13 of the *NLCA*, public notice of the application was given and interested persons were invited to make representations to the NWB. No public concerns were expressed, and after reviewing the submission of the Applicant and representations made by interested persons, the NWB, having given due regard to the facts and circumstances, the merits of the submissions made to it and to the purpose, scope and intent of the *NLCA* and of the *NWNSRTA*, decided to waive the requirement to hold a public hearing.

II. GENERAL CONSIDERATIONS

A. Term of the Licence

In accordance with the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* S. 45, the NWB may issue a licence for a term not exceeding twenty-five years. The NWB believes that a term of approximately one year and a half is appropriate. The licence term will allow the Licensee to properly carry out the terms and conditions of the licence and will ensure that sufficient time is given to permit the Licensee to develop, submit and implement the plans required under the licence to the satisfaction of the NWB.

B. Annual Report

The requirements imposed on the Licensee in this licence are for the purpose of ensuring that the NWB has an accurate annual update of water use and depositions of waste during a calendar year. This information is maintained on the public registry and is available to any interested parties upon request. The requirements of this Annual Report can be found in Part B, Item 2.

C. Spill Contingency Planning

The Board generally requires that all Licensees prepare a comprehensive Spill Contingency Plan to establish a state of readiness to ensure a prompt and effective response to possible spills or system failure events. The site-specific spill contingency plan will assist the Licensee in responding to emergencies such that the impacts to water in particular and the environment and public health in general are minimized. The Licensee shall submit a site specific spill

contingency plan in accordance with Part H, Item 1 of this Licence.

D. Abandonment and Restoration (A&R)

To ensure that all facilities are reclaimed in an appropriate manner upon abandonment, the NWB encourages the Licensee to prepare an Abandonment and Restoration Plan. The Abandonment and Restoration Plan shall include at a minimum the terms and conditions in Part I.

III. LICENCE 1BR-SAR0607

Pursuant to the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* and the *Agreement Between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in Right of Canada*, the Nunavut Water Board, hereinafter referred to as the Board, hereby grants to

INDIAN AND NORTHERN AFFAIRS CANADA

(Licensee)

of

BUILDING 1553, P.O BOX 2200, IQALUIT, NU X0A 0H0

(Mailing Address)

hereinafter called the Licensee, the right to alter, divert or otherwise use water for a period subject to restrictions and conditions contained within this licence:

1BR-SAR0607

Licence Number

NUNAVUT 06

Water Management Area

SARCPA LAKE, QIKIQTANI REGION, NUNAVUT

Location

WATER USE AND WASTE DISPOSAL

Purpose

Industrial – TYPE “B”

Classification of Undertaking

1,500 CUBIC METRES ANNUALLY

Quantity of Water Not to Exceed


JULY 14, 2006

Date of Licence

DECEMBER 31, 2007

Expiry Date of Licence

Dated this 14th day of July 2006 at Gjoa Haven, NU.


Philippe di Pizzo
Chief Administrative Officer

PART A: SCOPE, DEFINITIONS AND ENFORCEMENT

1. Scope

This Licence allows for the use of water and the disposal of waste for an undertaking classified as Industrial at Sarcpa Lake, located approximately 85 km west of the Hamlet of Hall Beach and 100 km southwest of the Hamlet of Igloolik within the Qikiqtani Region, Nunavut (general latitude 68°33' and general longitude 83°19' W);

- i. This Licence is issued subject to the conditions contained herein with respect to the taking of water and the depositing of waste of any type in any waters or in any place under any conditions where such waste or any other waste that results from the deposits of such waste may enter any waters. Whenever new Regulations are made or existing Regulations are amended by the Governor in Council under the Nunavut Waters and Nunavut Surface Rights Tribunal Act, or other statutes imposing more stringent conditions relating to the quantity or type of waste that may be so deposited or under which any such waste may be so deposited, this Licence shall be deemed, upon promulgation of such Regulations, to be subject to such requirements; and;
- ii. Compliance with the terms and conditions of this Licence does not absolve the Licensee from responsibility for compliance with the requirements of all applicable Federal, Territorial and Municipal legislation.

2. Definitions

In this Licence: **1BR-SAR0607**

“Act” means the *Nunavut Waters and Nunavut Surface Rights Tribunal Act*;

“Amendment” means a change to original terms and conditions of this licence requiring correction, addition or deletion of specific terms and conditions of the licence; modifications inconsistent with the terms of the set terms and conditions of the Licence;

“Appurtenant Undertaking” means an undertaking in relation to which a use of waters or a deposit of waste is permitted by a licence issued by the Board;

“Board” means the Nunavut Water Board established under the *Nunavut Land Claims Agreement* and the *Nunavut Waters and Nunavut Surface Rights Tribunal Act*;

“CEPA Contaminated Soil” Soil containing concentrations of PCBs equal to or in excess of 50mg/kg;

“Chief Administrative Officer” means the Executive Director of the Nunavut Water Board;

“Clean-up Activities” means the site restoration and demolition of facilities at the CAM-F, Sarcpa Intermediate DEWLine Site, as indicated in the Project Drawings and Project Specifications;

“Contaminated Soil” means soil that has been characterized to contain contaminants that exceed Tier I or Tier II DEW Line Clean-up Criteria.

Tier I Contaminated Soil: Soils containing F3/F4 contaminated soil and/or concentrations of any or all contaminants as follows:

Contaminant	Criteria
Lead	200 to 500 ppm
PCBs	1 to <5 ppm

Tier II Contaminated Soil: Soils containing F1/F2 contaminated soils and/or concentrations equal or in excess of any or all of the contaminants as follows:

Contaminant	Criteria
Arsenic	30 ppm
Cadmium	5 ppm
Chromium	250 ppm
Cobalt	50 ppm
Copper	100 ppm
Lead	500 ppm
Mercury	2 ppm
Nickel	100 ppm
Zinc	500 ppm
PCBs	>5ppm to <50 ppm

“Engineer” means a professional engineer registered to practice in Nunavut in accordance with the Engineering, Geological and Geophysical Act (Nunavut) S.N.W.T. 1998, c.38, s.5;

“F1/F2 Contaminated Soils” means hydrocarbon contaminated soil in which the primary petroleum hydrocarbon product present in the soil as determined by laboratory analysis consists of fuel oil, and/or diesel, and/or gasoline;

“F3/F4 Contaminated Soils” means hydrocarbon contaminated soil in which the primary petroleum hydrocarbon product present in the soil as determined by laboratory analysis consists of lubricating oil and grease. F3/F4 contaminated soil shall be treated as Tier I Contaminated Soil containing hydrocarbon contamination;

“Greywater” means all liquid wastes from showers, baths, sinks, kitchens and domestic washing facilities, but does not include toilet wastes;

“Hazardous Materials” means any materials that are designated “hazardous” or “dangerous goods” under Nunavut Territorial or Federal legislation;

“Hydrocarbon Contaminated Soil” means soil that has been characterized to contain petroleum hydrocarbon concentrations which exceed the Canadian Council for Ministers of the Environment, *Canada Wide Standard – Petroleum Hydrocarbons in Soil*, for the Residential/Parkland land use.

“Inspector” means an Inspector designated by the Minister under Section 85 (1) of the *Act*;

“Licensee” means the holder of this Licence;

“Modification” means an alteration to a physical work that introduces a new structure or eliminates an existing structure and does not alter the purpose or function of the work, but does not include an expansion;

“Nunavut Land Claims Agreement” (NLCA) means the “*Agreement Between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in right of Canada*”, including its preamble and schedules, and any amendments to that agreement made pursuant to it;

“Project Drawings” means the drawings, stamped and qualified by an Engineer, issued for construction for the site restoration/construction activities at the CAM-F, Sarcpa Lake Intermediate DEWLine Site;

“Project Specifications” means the technical specifications, dated March 22, 2005, issued for construction for the site restoration and demolition of facilities at the CAM-F, Sarcpa Lake DEWLine Site;

“Regulations” means the *Northwest Territories Water Regulations* sor/93-303 8th June, 1993.

“Sewage” means all toilet wastes and greywater;

“Spill Contingency Plan” means a Plan developed to deal with unforeseen petroleum and chemical events that may occur during the operations conducted under the Licence;

“Sump” means an excavation in soil for the purpose of catching or storing water or waste

"Toilet Wastes" means all human excreta and associated products, but does not include greywater;

"Waste" means, as defined in S.4 of the *Act*, any substance that, by itself or in combination with other substances found in water, would have the effect of altering the quality of any water to which the substance is added to an extent that is detrimental to its use by people or by any animal, fish or plant, or any water that would have that effect because of the quantity or concentration of the substances contained in it or because it has been treated or changed, by heat or other means;

"Waste Processing Area Drawing" means the drawing number, TP5454 _001 _E6 _115 _1 stamped and qualified by an Engineer; and

"Wastewater Treatment System" means the wastewater treatment system shown in the project drawings, ZY5453 _001 _E2 _115 _4 Figures 1-3 stamped and qualified by an Engineer.

3. Enforcement

- i. Failure to comply with this Licence will be a violation of the *Act*, subjecting the Licensee to the enforcement measures and the penalties provided for in the *Act*;
- ii. All inspection and enforcement services regarding this Licence will be provided by Inspectors appointed under the *Act*; and
- iii. For the purpose of enforcing this Licence and with respect to the use of water and deposit or discharge of waste by the licensee, Inspectors appointed under the *Act*, hold all powers, privileges and protections that are conferred upon them by the *Act* or by other applicable law.

PART B: GENERAL CONDITIONS

1. Water use fees are not required for this Licence as per S. 7 of the *Act*.
2. Licensee shall file an Annual Report on the appurtenant undertaking with the Board no later than March 31st of the year following the calendar year being reported which shall contain the following information:
 - i. Daily volumes of water used from all sources in cubic meters;
 - ii. GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) of all locations where sources of water are utilized for all purposes;

- iii. GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) of all locations where wastes associated with camp operations are deposited;
 - iv. GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) of all locations where wastewater effluent meeting the Wastewater Discharge Criteria, as per Part D Item 3, were discharged;
 - v. All monitoring data and information required under Part J;
 - vi. A list of unauthorized discharges and a summary of follow-up actions taken;
 - vii. Volumes and disposal method of additional contaminated soil, debris and/or hazardous material the Licensee may encounter during the Clean-up Activities;
 - viii. Revisions to the Spill Contingency Plan;
 - ix. Clean-up Activities undertaken;
 - x. As-built drawings of the Non-Hazardous Waste Landfill and the Secure Soil Disposal Facility shall be submitted with the Annual Report for the year during which the construction and operation of the facilities is complete; and
 - xi. Any other details on water use or waste disposal requested by the Board by November 1 of the year being reported.
3. The Licensee shall notify the NWB of any changes in operating plans or conditions associated with this project at least thirty (30) days prior to any such change.
 4. The Licensee shall install flow meters or other such devices, or implement suitable methods required for the measuring of water volumes, to be operated and maintained to the satisfaction of an Inspector.
 5. If the Licensee contemplates the renewal of Licence No. 1BR-SAR0607, it is the responsibility of the Licensee to apply to the NWB for its renewal. The past performance of the Licensee, new documentation and information, and issues raised during a public hearing, if the NWB is required to hold one, will be used to determine the terms and conditions of the Licence renewal. Note that if the Licence expires before the NWB issues a new one, then water use and waste disposal must cease, or the Licensee will be in contravention of the Nunavut Land Claims Agreement. The NWB recommends that an application for the renewal of Licence No. 1BR-SAR0607 be filed at least three months before the Licence expiry date.
 6. If Licence No. 1BR-SAR0607 requires an amendment, a public hearing may be required.

The Licensee should submit applications for amendment as soon as possible to give the NWB sufficient time to go through the amendment process. The process may vary depending on the scope of the amendment requested.

7. The Licensee shall ensure a copy of this Licence is maintained at the site of operations at all times. Any communication with respect to this Licence shall be made in writing to the attention of:

(i) Manager of Licensing:

Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1J0
Telephone: (867) 360-6338
Fax: (867) 360-6369

(ii) Inspector Contact:

Water Resources Officer
Nunavut District, Nunavut Region
P.O. Box 100
Iqaluit, NU X0A 0H0
Telephone: (867) 975-4298
Fax: (867) 979-6445

8. The Licensee shall submit one paper copy and one electronic copy of all reports, studies, and plans to the Board. Reports or studies submitted to the Board by the Licensee shall include a detailed executive summary in Inuktitut.
9. This Licence is not assignable except as provided in Section 44 of the *Act*.

PART C: CONDITIONS APPLYING TO WATER USE AND THE PROTECTION OF WATER

1. The Licensee shall obtain water for all uses from Sarcpa Lake up to a maximum of 1,500 cubic meters per year.
2. The Licensee shall equip all water intake hoses with a screen of an appropriate mesh size to ensure that there is no entrainment of fish and shall withdraw water at a rate such that fish do not become impinged on the screen.
3. The Licensee shall not remove any material from below the ordinary high water mark of any water body.

4. The Licensee shall not do anything that will cause erosion to the banks of any body of water and shall provide necessary controls to prevent such erosion.
5. Sediment and erosion control measures shall be implemented prior to and maintained during the operation to prevent entry of sediment into water.
6. The Licensee shall ensure mobilization and any activities associated with Clean-up shall be undertaken in a manner that minimizes disturbance to the bed and banks of any waterbody.
7. The Licensee shall ensure the Clean-up Activities, including maintenance procedures and vehicular refueling shall be controlled to prevent the entry of petroleum products, sediment, debris, rubble or other deleterious substances into water.

PART D: CONDITIONS APPLYING TO WASTE DISPOSAL

1. The Licensee shall ensure that all discharges of camp wastewater from the approved Wastewater Treatment System comply with the following effluent quality criteria:

Parameter	Maximum Average Concentration	Maximum Concentration of Any Grab Sample
Biological Oxygen Demand (5 day) - BOD ₅	120 mg/L	180 mg/L
Total Suspended Solid (TSS)	180 mg/L	270 mg/L
Fecal Coliforms	100,000 CFU/dl	
pH	6-9	
Oil and Grease	No visible sheen	

2. The Licensee shall ensure all sewage sludge produced during the project activities shall be contained and transported off-site for disposal.
3. During camp setup and commissioning of the Wastewater Treatment System, the Licensee shall contain all camp wastewater in a sump. The sump shall be located a distance of at least thirty (30) meters above the ordinary high water mark of any water body, treated with lime and covered with native material to achieve the pre-existing natural contours of the land prior to abandonment. The location shall be included in the Annual Report, as per Part B Item 2.
4. The Licensee shall ensure all wastewater effluent from the Waste Processing Area, wash water, melt water collection, rinse water resulting from cleaning of fuel tanks and pipelines, water from dewatering contaminated soil areas and/or any other liquid effluent shall meet the following Wastewater Discharge Criteria prior to being released onto land:

Parameter	Maximum Allowable Concentration (µg/L)
pH	6 to9
Oil and Grease	5000
Arsenic (total)	100
Cadmium (dissolved)	10
Chromium (dissolved)	100
Cobalt (dissolved)	50
Copper (dissolved)	200
Lead (dissolved)	50
Mercury (total)	0.6
Nickel (dissolved)	200
PCB (total)	1000
Phenols	20
Zinc (total)	500

5. If effluent does not meet the Wastewater Discharge Criteria it shall be considered hazardous waste and the Licensee shall ensure it is disposed off-site in an approved facility, as per the Project Specifications.
6. The discharge location for all treated effluents described in Part D, Items 1 and 4 shall be to the satisfaction of an Inspector and shall at a minimum be located 30 metres from the ordinary high water mark from any water body and where direct flow into a water body is not possible and no additional impacts are created.
7. The Licensee shall incinerate all combustible solid waste associated with the camp.
8. The Licensee shall dispose of all non-combustible, non-hazardous wastes associated with the camp and ash from the camp incinerator, in the Non-Hazardous Landfill.
9. All waste oil and hazardous wastes associated with the camp, or currently located onsite, shall be collected, contained and transported off-site for disposal in an approved facility, as per the Project Specifications.

PART E: CONDITIONS FOR CAMPS, ACCESS INFRASTRUCTURES AND OPERATIONS

1. The Licensee shall not erect camps or store material on the surface of frozen streams or lakes except what is for immediate use. Camps shall be located such as to minimize impacts on surface drainage.

2. All activities shall be conducted in such a way as to minimize impacts on surface drainage and the Licensee shall immediately undertake any corrective measures in the event of any impacts on surface drainage.
3. Winter lake and stream crossings, including ice bridges, shall be constructed entirely of water, ice or snow; stream crossings shall be removed or notched prior to spring break-up.
4. With respect to access road, pad construction or other earthworks, the deposition of debris or sediment into any water body is prohibited. These materials shall be disposed of above the ordinary high water mark in such a fashion that they do not enter the water.
5. The Licensee shall ensure that all site debris, contaminated soil and hazardous materials are disposed as per the Project Drawings and Project Specifications such that at a minimum:
 - i. Tier I Contaminated Soil shall be disposed in the Non-Hazardous Landfill;
 - ii. Tier II Contaminated Soil shall be disposed in the Secure Soil Disposal Facility;
 - iii. Surface and demolition debris shall be sorted and non-hazardous waste shall be disposed in the Non-Hazardous Waste Landfill;
 - iv. Hazardous Materials shall be containerized and transported off-site for disposal; and
 - v. CEPA Contaminated Soil shall be containerized and transport off-site for disposal.
6. The Licensee shall ensure that the site debris and contaminated soil within Dump A and B are collected, excavated and disposed as per the Project Drawings and Project Specifications.
7. The Licensee shall construct and operate the Non-Hazardous Landfill and Secure Soil Disposal Facility as per the Project Drawings and Project Specifications.
8. The Licensee shall submit to the Board As-Built drawings of the Non-Hazardous Landfill and the Secure Soil Disposal Facility with the Annual Report, as per Part B, Item 2, for the year during which the construction and operation of the facilities is complete.
9. The Licensee shall construct and operate the Waste Processing Area as per the Waste Processing Area Drawings and the Project Specifications.
10. If the Licensee encounters additional contaminated soil, debris and/or hazardous materials, the Licensee shall categorize the waste and dispose of it as per the Project Drawings and Project Specifications. The Licensee shall record in the Annual Report, as per Part B,

Item 2, all volumes of additional contaminated soil, debris and/or hazardous materials.

11. If the volume of waste as described in Part E Item 10, cannot be accommodated by the infrastructure in the Project Drawings and Project Specifications the Licensee shall submit a plan for Board approval.

PART F: CONDITIONS APPLYING TO DRILLING OPERATIONS

1. The Licensee is authorized to drill and install the monitoring wells as shown in drawings 413334-CO3, C04 and C12.

PART G: CONDITIONS APPLYING TO MODIFICATIONS

1. The Licensee may, without written consent from the Board, carry out Modifications to the Water Supply Facilities and Waste Disposal Facilities provided that such Modifications are consistent with the terms of this License and the following requirements are met:
 - i. the Licensee has notified the Board in writing of such proposed Modifications at least sixty (60) days prior to beginning the Modifications;
 - ii. such Modifications do not place the Licensee in contravention of the License or the *Act*;
 - iii. the Board has not, during the sixty (60) days following notification of the proposed Modifications, informed the Licensee that review of the proposal will require more than sixty (60) days; and
 - iv. the Board has not rejected the proposed Modifications.
2. Modifications for which all of the conditions referred to in Part G, Item 1 have not been met can be carried out only with written approval from the Board.
3. The Licensee shall provide as-built plans and drawings of the Modifications referred to in this License within ninety (90) days of completion of the Modification. These plans and drawings shall be stamped by an Engineer.

PART H: CONDITIONS APPLYING TO SPILL CONTINGENCY PLANNING

1. In accordance with section 6(2)(g)(i) and (ii) of the Regulations, the Licensee shall, within thirty (30) days of issuance of this Licence, submit to the Board for approval, a site specific Spill Contingency Plan that will describe how petroleum products and hazardous materials will be handled, stored and disposed of, as well as how they will be contained and cleaned-up in the event of a spill. This Plan shall include, but not be limited to, the following:
 - i. The name, address and contact number for the person in charge, management or control of the contaminant (in this case, fuel oil and any other chemicals associated with the program);
 - ii. The name and address and telephone number of the employer;
 - iii. The name, job title and 24 hour contact number for the person or persons responsible for activating the spill plan;
 - iv. A detailed description of the facility, including its geographic location – in UTM coordinates (map sheet number, Eastings and Northings) and geographic coordinates (Lat/Long) – size and storage capacity;
 - v. A description of the type and amount of contaminants stored on site (including Material Safety Data Sheets);
 - vi. A description of the spill prevention measures to be undertaken in the handling, storage and disposal of petroleum products and hazardous materials;
 - vii. Steps taken to report, contain, clean up and dispose of a spill;
 - viii. Notification of the INAC Water Resources Inspector at (867) 975-4298 and the NWT/NU Spill Line (867) 920-8130 following the occurrence of any spill of chemicals, petroleum products or waste associated with the project;
 - ix. An emergency contact list, including the Environment Canada 24-hour Emergencies pager number (867) 920-5131;
 - x. A copy of the Government of Nunavut Spill Report Form;
 - xi. A site map of sufficiently large scale to show the location of buildings, contaminants storage areas, sensitive areas such as water bodies, probable pathways of contaminant flow and general topography;
 - xii. A description of the spill response training provided to employees who will respond to a spill;
 - xiii. An inventory and location of the response and clean up equipment available to the spill clean up team;
 - xiv. The means by which the spill plan is activated;
 - xv. The date that the spill plan was prepared; and
 - xvi. The Licensee shall annually review the Plan referred to in this Part and if needed, modify it to reflect changes in operation and/or technology. The Plan and any revisions shall be submitted with the Annual Report.
2. The Licensee shall ensure that any chemicals, petroleum products or wastes associated with the project do not enter water. All sumps and fuel caches shall be located a minimum

of thirty (30) metres above the ordinary high water mark of any adjacent water body and inspected on a regular basis. The Licensee is encouraged to use some form of secondary containment.

3. The Licensee shall ensure that any equipment maintenance and servicing be conducted only in designated areas and shall implement special procedures (such as the use of drip pans) to manage fluids, waste and contain potential spills.
4. If during the term of this Licence, an unauthorized discharge of waste occurs, or if such a discharge is foreseeable, the Licensee shall:
 - i. Employ the Spill Contingency Plan;
 - ii. Report the spill immediately to the 24-Hour Spill Line at (867) 920-8130 and to the INAC Water Resources Inspector at (867) 975-4298; and
 - iii. Submit to the INAC Water Resources Inspector on each occurrence, a detailed report including the GPS location, no later than thirty (30) days after initially reporting the event.

PART I: CONDITIONS APPLYING TO ABANDONMENT AND RESTORATION

1. The Licensee shall complete all restoration work prior to the expiry of this Licence.
2. The Licensee shall remove from the site all support infrastructures associated with the Cleanup Activities, including the camp, fuel cache, equipment and any other associated materials;
3. All roads, building pads and airstrip shall be re-graded to match natural contour to reduce erosion;
4. All culverts shall be removed and the drainage opened up to match the natural channel. Measures shall be implemented to minimize erosion and sedimentation;
5. In order to promote natural growth of vegetation and the needed microclimate for seed deposition, all disturbed surfaces shall be prepared by ripping, grading, or scarifying the surface to conform to the natural topography
6. All disturbed areas shall be contoured and stabilized upon completion of work and restored to a pre-disturbed state.

PART J: CONDITIONS APPLYING TO THE MONITORING PROGRAM

1. The Licensee shall measure and record in cubic metres the daily quantities of water utilized for all purposes.
2. The Licensee shall determine the GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) of all locations where sources of water are utilized for all purposes.
3. The Licensee shall determine the GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) of all locations where wastes associated with camp operations are deposited.
4. The Licensee shall record the GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) of all locations where wastewater effluent meeting the Wastewater Discharge Criteria are deposited.
5. The Licensee shall monitor compliance with respect to Part D Item 1, by collecting one representative composite sample:
 - i. Upon initial release; and
 - ii. Every four weeks thereafter.
6. The Licensee shall monitor compliance with respect to Part D Item 4, by collecting a representative composite sample of the total volume to be released.
7. The Licensee shall submit to the Board for approval 30 days prior to releasing any effluent a revised the Quality Assurance/Quality Control Plan that conforms to “Quality Assurance (QA) and Quality Control (QC) Guidelines For Use by Class “B” Licensees in Collecting Representative Water Samples in the Field and for Submission of a QAQC Plan” INAC (1996).
8. The Licensee shall submit a Post-Closure Monitoring Plan to the Board for approval 6 months prior to the expiry of this Licence.
9. In the event that the Plans referred to in Part J, Item 7 and 8 are not approved by the Board, the Licensee shall provide a revised version to the Board for approval within 30 days of notification by the Board.
10. The Licensee shall implement the Plans referred to in this Part as and when approved by the Board.

11. An Inspector may impose additional monitoring requirements.
12. All sampling, sample preservation and analyses shall be conducted in accordance with methods prescribed in the current edition of *Standard Methods for the Examination of Water and Wastewater*, or by such other methods approved by the Board.
13. All analyses shall be performed in a laboratory accredited according to ISO/IEC Standard 17025. The accreditation shall be current and in good standing.
14. The Licensee shall include in the Annual Report, as per Part B Item 2, all data and information required by this Part.