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NUNAVUT IMALIRIYIN KATIMAYINGI
NUNAVUT WATER BOARD
OFFICE DES EAUX DU NUNAVUT

WATER LICENCE APPLICATION FORM

Application for: (check one)

☒ **New**
☐ **Renewal**
☐ **Amendment**
☐ **Assignment**
☐ **Cancellation**

LICENCE NO:

(for NWB use only)

1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE Natalie Plato Director, Contaminated Sites Indian and Northern Affairs Canada P.O. Box 2200 Iqaluit, NU X0A 0H0 Phone: <u>867-975-4730</u> Fax: <u>876-975-4736</u> e-mail: <u>platon@inac.gc.ca</u>	2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable) <u>Same</u> Phone: <u>n/a</u> Fax: <u>n/a</u> e-mail: <u>n/a</u>
3. LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of the Undertaking) Two abandoned Mid-Canada Line Radar Stations (Sites 412 & 413) located on Bear Island in the central northern portion of James Bay, Nunavut. See Bear Island Site Maps (Appendix C) Latitude: (54°20'0" N) Longitude: (81°5'0" W) NTS Map Sheet No. <u>043I 01</u> Scale: <u>1/250,000</u>	
4. DESCRIPTION OF UNDERTAKING (attach plans and drawings) See Remedial Action Plan (Appendix 5) and Bear Island Site Maps & Drawings (Appendix 6). Principle activities of this project include: <ul style="list-style-type: none"> • <input type="checkbox"/> <input type="checkbox"/> Access site via sealift; • Establish a camp to support site operations; • Existing site infrastructure will be demolished and demolition wastes will be segregated into hazardous and non-hazardous materials and disposed of appropriately; • All hazardous materials and soil will be disposed of at an off-site licensed disposal facility; • A non-hazardous waste landfill will be constructed to contain the non hazardous contaminated soil, miscellaneous non-hazardous site debris and demolition waste generated during the clean up; • Existing landfills/dumps on this site will be remediated, as required; • Metal/PCB/hydrocarbon contaminated soil areas, identified during the previous field investigations, will be disposed of at an off-site licensed disposal facility; • Hydrocarbon impacted soil areas will be excavated, containerized and shipped off-site to a licensed disposal facility; • Barrel consolidation will be carried out, depending on test results, the contents will either be 	

incinerated on site or shipped off site for disposal. Empty barrels will be crushed and disposed in on-site landfills;

- Scattered surface debris and partially buried debris (non hazardous) is to be collected and disposed of in the on-site non hazardous waste landfill;
- Roads and airstrip will be re-constructed and repaired as required; and
- Several borrow sources will be developed and the material used to assist in the remediation work.

5. **TYPE OF PRIMARY UNDERTAKING** (A supplementary questionnaire **must** be submitted with the application for undertakings listed in “**bold**”)

- | | |
|--|--|
| <input type="checkbox"/> Industrial | <input type="checkbox"/> Agricultural |
| <input type="checkbox"/> Mining and Milling (includes exploration/drilling) | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Municipal (includes camps/lodges) | <input type="checkbox"/> Recreational |
| <input type="checkbox"/> Power | <input checked="" type="checkbox"/> Miscellaneous (describe below): |

Description: Site Remediation (completed Remote Camp Supplementary Questionnaire attached)

See Schedule II of *Northwest Territories Waters Regulations* for Description of Undertakings

6. WATER USE

- | | |
|---|---|
| <input checked="" type="checkbox"/> To obtain water | <input type="checkbox"/> Flood control |
| <input type="checkbox"/> To cross a watercourse | <input type="checkbox"/> To divert a watercourse |
| <input type="checkbox"/> To modify the bed or bank of a watercourse | <input type="checkbox"/> To alter the flow of , or store, water |
| <input type="checkbox"/> Other (describe): | |

7. QUANTITY OF WATER INVOLVED (cubic metres per day including both quantity to be used and quality to be returned to source)

- Water use** ☒ 100m³/day or less
☐ Greater than 100m³/day; if greater, indicate quantities to be used for each purpose (camp, drilling, etc.)

115 litres /day/person x 50 individuals x 90 days/year = 517,500 litres = 517.5 cubic metres per year of non-potable water from the water reservoir located on the Island.

This calculation is conservatively based on the highest number of people and days expected on site each year. Potable water for drinking and cooking will initially be transported to site. At a later date in the project schedule, site water may be made potable by treatment in accordance with the Health Canada Guidelines for Canadian Drinking Water Quality. INAC anticipates a maximum usage of 20 m³/day.

Water returned to source

0 m³/day

8. WASTE (for each type of waste describe: composition, quantity (cubic metres per day), methods of treatment and disposal, etc.)

- | | |
|---|---|
| <input checked="" type="checkbox"/> Sewage | <input checked="" type="checkbox"/> Waste oil |
| <input checked="" type="checkbox"/> Solid Waste | <input checked="" type="checkbox"/> Greywater |
| <input checked="" type="checkbox"/> Hazardous | <input type="checkbox"/> Sludges |
| <input checked="" type="checkbox"/> Bulky Items/Scrap Metal | <input type="checkbox"/> Other describe): |

See Remote Camp Supplementary Questionnaire (Appendix 1).

Sewage - Two independently operated temporary lagoons located 100 m from camp.

Solid Waste - Non-hazardous combustible solid waste will be incinerated and non-combustible waste will be placed in the on-site non hazardous waste landfill

Hazardous Waste - Removed from the site and disposed of off-site at an appropriate disposal facility.

Bulky Items/Scrap Metal - On-site non-hazardous waste landfill

Waste Oil - Removed from the site and disposed of off-site, or incinerated onsite.

Greywater - Two independently operated temporary lagoons located 100 m from camp.

9. OTHER PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING (give name, mailing address and location; attach if necessary)**Land Use Permit**

DIAND ☒ Yes ☐ No If no, date expected _____

Regional Inuit Association ☐ Yes ☒ No If no, date expected _____

Commissioner ☐ Yes ☒ No If no, date expected _____

10. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES (direct, indirect, cumulative impacts, etc.)

Limited environmental impacts are expected as a result of the activities planned under this application. Every effort will be made to ensure no impact to nesting migratory birds. See attached Environmental Screening for the Bear Island Mid-Canada Line Remediation Project (Appendix 7).

NIRB Screening ☒ Yes ☐ No If no, date expected _____

11. INUIT WATER RIGHTS

Will the project or activity substantially affect the quality, quantity, or flow of water flowing through Inuit Owned Lands and the rights of Inuit under Article 20 of the Nunavut Land Claims Agreement?

No.

If yes, has the applicant entered into an agreement with the Designated Inuit organization to pay compensation for any loss or damage that may be caused by the alteration. If no compensation agreement has been made, how will compensation be determined? _____

12. CONTRACTORS AND SUB-CONTRACTORS (name, address and functions)

No contract has been tendered to date. This information will be forwarded after contract award and prior to mobilization (see Appendix 12)

13. STUDIES UNDERTAKEN TO DATE (list and attach copies of studies, reports, research, etc.)

Please see the List of Additional Documents provided in Appendix 11.

14. THE FOLLOWING DOCUMENTS MUST BE INCLUDED WITH THE APPLICATION FOR THE REGULATORY PROCESS TO BEGIN

Supplementary Questionnaire (where applicable: see section 5) ☒ Yes ☐ No If no, date expected _____

Inuktitut and/or Inuinnaqtun/English Summary of Project ☒ Yes ☐ No If no, date expected _____

Application fee of \$30.00 (Payee Receiver General for Canada) ☐ Yes ☒ No If no, date expected n/a

Water Use fee of \$30.00 (unless otherwise indicated in Section 9 of the *NWT Waters Regulations*; Payee Receiver General for Canada)

☐ Yes ☒ No If no, date expected n/a

15. PROPOSED TIME SCHEDULE (unless otherwise indicated, the NWB will consider the application for a five (5) year term)

☐ one year or less (or) ☒ Multi Year

Start Date: May 1, 2009 Completion Date: May 1, 2014

Natalie Plato

Director, Contaminated
Sites

Name (Print)

Title (Print)

Signature

Date

For Nunavut Water Board office use only

APPLICATION FEE Amount: \$ _____ Pay ID No.: _____

WATER USE DEPOSIT Amount: \$ _____ Pay ID No.: _____