



General Water Licence Application
(Application for a new Water Licence)

Document Date: November 2013

Application Submission Date:

Month/Day/Year

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DOCUMENT MANAGEMENT

Original Document Date: April 2010

DOCUMENT AMENDMENTS

	Description	Date
(1)	Updated for public distribution as separate document from NWB Guide 4	June 2010
(2)	Updated NWB logos and reformatted table to allow rows to break across page	May 2011
(3)	Update NWB logo	April 2013
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		



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GENERAL WATER LICENCE APPLICATION
(APPLICATION FOR NEW WATER LICENCE)

The applicant is referred to the NWB's Guide 4: *Guide to Completing and Submitting a Water Licence Application for a New Licence* for more information about this application form.

LICENCE NO: (for NWB use only)	
<div>1. APPLICANT (PROPOSED LICENSEE) CONTACT INFORMATION (name, address)</div> <div>Natalie Plato Director, Contaminated Sites Aboriginal Affairs and Northern Development Canada PO Box 2200 Iqaluit NU X0A 0H0 Phone: 867-975-4730 Fax: : 867-975-4736 e-mail: natalie.plato@aadnc-aadnc.gc.ca</div>	<div>2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address)</div> <div>N/A</div> <div>Phone: _____ Fax: _____ e-mail: _____ (Attach authorization letter.)</div>
<div>3. NAME OF PROJECT (including the name of the project location)</div> <div>Contwoyto Lake, Former Weather Station Remediation Project – 2014-2016 Field Program</div>	
<div>4. LOCATION OF UNDERTAKING</div> <div>Project Extents</div> <div>NW: Latitude: (65°29'21.13" N) Longitude: (110°23'1.63" W) NE: Latitude: (65°29'21.13" N) Longitude: (110°21'8.18" W) SE: Latitude: (65°28'51.84" N) Longitude: (110°21'14.60" W) SW: Latitude: (65°28'51.84" N) Longitude: (110°23'8.27" W)</div> <div>Camp Location(s)</div> <div>Latitude: (65°28'58.34" N) Longitude: (110°22'5.25" W)</div>	
<div>5. MAP - Attach a topographical map, indicating the main components of the undertaking.</div> <div>Maps of the Contwoyto Lake Project Area are in Appendix 5.</div>	

NTS Map Sheet No.: **076E08** Map Name: **Contwoyto Lake** Map Scale: **1/50,000**

6. NATURE OF INTEREST IN THE LAND - Check any of the following that are applicable to the proposed undertaking (at least one box under the 'Surface' header must be checked).

Sub-surface

- ☐ Mineral Lease from Nunavut Tunngavik Incorporated (NTI)
Date (expected date) of issuance: _____ Date of expiry: _____
- ☐ Mineral Lease from Indian and Northern Affairs Canada (INAC)
Date (expected date) of issuance: _____ Date of expiry: _____

Surface

- ☒ Crown Land Use Authorization from Indian and Northern Affairs Canada (INAC)
Date (expected date) of issuance: **March 2014** Date of expiry: **March 31, 2016**
- ☒ Inuit Owned Land (IOL) Authorization from Kitikmeot Inuit Association (KIA)
Date (expected date) of issuance: **April 2014** Date of expiry: **March 31 2016**
- ☐ IOL Authorization from Kivalliq Inuit Association (KivIA)
Date (expected date) of issuance: _____ Date of expiry: _____
- ☐ IOL Authorization from Qikiqtani Inuit Association (QIA)
Date (expected date) of issuance: _____ Date of expiry: _____
- ☐ Commissioner's Land Use Authorization
Date (expected date) of issuance: _____ Date of expiry: _____
- ☐ Other: _____
Date (expected date) of issuance: _____ Date of expiry: _____

Name of entity(s) holding authorizations:

Aboriginal Affairs and Northern Development Canada – Contaminated Sites

7. NUNAVUT PLANNING COMMISSION (NPC) DETERMINATION

Indicate the land use planning area in which the project is located.

- | | |
|---------------------------------------|--|
| <input type="checkbox"/> North Baffin | <input type="checkbox"/> Keewatin |
| <input type="checkbox"/> South Baffin | <input type="checkbox"/> Sanikiluaq |
| <input type="checkbox"/> Akunnig | <input checked="" type="checkbox"/> West Kitikmeot |

Is a land use plan conformity determination required?

- ☐ Yes ☒ No

If Yes, indicate date issued and attach copy **Applying simultaneously** .
If No, provide written confirmation from NPC confirming that a land use plan conformity review is not required.

Confirmation from the NPC confirming that a land use plan conformity review is not required,

official notice is pending.

8. NUNAVUT IMPACT REVIEW BOARD (NIRB) DETERMINATION

Is an Article 12 Part 4 screening determination required?

☐ Yes ☒ No

If Yes, indicate date issued and attach copy _____
If No, provide written confirmation from NIRB confirming that a screening determination is not required.

The Nunavut Impact Review Board (NIRB) Part 1 and Part 2 Forms are being submitted concurrently with this application. Copies of the forms can be found in Appendices 1 & 2.

9. DESCRIPTION OF UNDERTAKING – List and attach plans and drawings or project proposal.

The remediation project will begin with the mobilization of the camp, equipment and supplies to site in the winter of 2014. The site will be accessed with an ice airstrip or by winter road, which will be determined by Delta Engineering Ltd and Carter Industries Ltd in Joint Venture (Delta/Carter) according to the weather in the area in the winter of 2014. They will also apply for their own mobilization and demobilization permits. AANDC will be responsible for on-site permitting only and Delta/Carter will be responsible for all associated Mobilization and Demobilization permitting.

Remedial activities will be completed during the summer of 2014, the activities planned include:

- a. Access to site to be determined by weather conditions and submitted under separate regulatory applications by Delta/Carter Ltd.
- b. Establishment of a camp to support site operations.
- c. Existing site infrastructure will be demolished and demolition wastes will be segregated into hazardous and non-hazardous materials and disposed of properly.
- d. All hazardous materials will be disposed of, at an off-site licensed disposal facility.
- e. Non-hazardous wastes will be disposed of, at an off-site appropriately licensed disposal facility.
- f. Existing debris areas at this site will be remediated as described in the RAP.
- g. A Contaminant Treatment Area (CTA) will be constructed for the treatment of hydrocarbon contaminated soil.
- h. Metal Contaminated Soil will be disposed of at an off-site appropriately licensed disposal facility.
- i. Contaminated soils will be handled as described in the RAP
- j. Barrels with like contents will be consolidated, depending on test results the contents will either be incinerated on-site or shipped off site for disposal. Empty barrels will be transported off-site to an appropriately licensed disposal facility.
- k. Scattered surface debris and partially buried debris (non-hazardous) will be collected and disposed of off-site in an appropriately licensed disposal facility.
- l. Roads and the airstrip will be re-constructed and repaired as required
- m. Several borrow sources will be developed and the material will be used during the remediation work.

Site remediation activities will take place on both Crown Land and Inuit Owned Land (IOL).

The final site demobilization for this site is planned for March of 2015. All site closure reports and project closure will be done by March 2016. All project, supplies, and contaminated material will be shipped off-site to an appropriately licensed disposal facility.

10. **OPTIONS** – Provide a brief explanation of the alternative methods or locations that were considered to carry out the project.

The Remedial Action Plan (RAP) provided in Appendix 4 considers alternative remedial methods for handling the environmental issues at the site.

11. **CLASSIFICATION OF PRIMARY UNDERTAKING** - Indicate the primary classification of undertaking by checking one of the following boxes.

- | | |
|---|---|
| <input type="checkbox"/> Industrial | <input type="checkbox"/> Agricultural |
| <input type="checkbox"/> Mining and Milling (includes exploration/drilling/exploration camps) | |
| <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): |

Preparation for Remediation Project (scheduled to be started in 2014)

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

Information in accordance with applicable Supplemental Information Guidelines (SIG) must be submitted with a New Water Licence Application. Indicate which SIG(s) are applicable to your application.

- | |
|---|
| <input type="checkbox"/> Hydrostatic Testing |
| <input type="checkbox"/> Tannery |
| <input checked="" type="checkbox"/> Tourist / Remote Camp |
| <input checked="" type="checkbox"/> Landfarm & On-Site Storage of Hydrocarbon Contaminated Soil |
| <input type="checkbox"/> Onshore Oil and Gas Exploration Drilling |
| <input type="checkbox"/> Mineral Exploration / Remote Camp |
| <input type="checkbox"/> Advanced Exploration |
| <input type="checkbox"/> Mine Development |
| <input type="checkbox"/> Municipal |
| <input type="checkbox"/> General Water Works |
| <input type="checkbox"/> Power |

12. **WATER USE** - Check the appropriate box(s) to indicate the type(s) of water use(s) being applied for.

- | | |
|--|---|
| <input checked="" type="checkbox"/> To obtain water for camp/ municipal purposes | |
| <input checked="" type="checkbox"/> To obtain water for industrial purposes | <input type="checkbox"/> To divert a watercourse |
| <input type="checkbox"/> To cross 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"/> Flood control |
| <input type="checkbox"/> Other: _____ | |

13. **QUANTITY AND QUALITY OF WATER INVOLVED** - For each type of water use indicated in Block 12, provide the source of water, the quality of the water source and available capacity, the estimated quantity to be used in cubic meters per day, method of extraction, as well as the quantities and qualities of water to be returned to source.

Name of water source(s) (show location(s) on map):

Contwoyto Lake (See Appendix 5)

Describe the quality of the water source(s) and the available capacity: _____

Contwoyto Lake will be sampled prior to using the lake as drinking water. If the sample meets Canadian Drinking Water Quality Guidelines (CDWQG) then it will be used as a potable water source (the lake has sufficient capacity to meet water needs for the project). If it requires treatment, bottled water will be used until treatment reaches applicable guidelines.

Provide the overall estimated quantity of water to be used: ~ 15 m³/day

Provide the estimated quantity(s) of water to be used from each source:
 Contwoyto Lake: ~15 cubic metres per day

Indicate the estimated quantities to be used for each purpose (camp, drilling, etc.)
 Camp: ~15 cubic metres per day

Describe the method of extraction(s): Submersible Pump

Estimated quantity(s) of water returned to source(s) 0 m³/day

Describe the quality of water(s) returned to source(s): N/A

14. WASTE – Check the appropriate box(s) to indicate the types of waste(s) generated and deposited.

Sewage

☒ Solid Waste

☒ Hazardous

☒ Bulky Items/Scrap Metal

☐ Animal Waste

☐ Other (describe): _____

☒ Waste oil

☒ Greywater

☐ Sludges

☒ Contaminated soil and/or water

15. QUANTITY AND QUALITY OF WASTE INVOLVED – For each type of waste indicated in Block 14, describe its composition, quantity in cubic meters/day, method of treatment and method of disposal.

Type of Waste	Composition	Quantity Generated	Treatment Method	Disposal Method
Sewage	Black Water	7.5 litres of ash/day for 15 people (max)	Pacto Toilets – Dual chambered incineration	Consolidate ashes and ship to dispose of ashes off-site
Waste Oil	Oil	< 300 L	Collected in drums	Shipped south for recycling and/or disposal
Solid Waste	Camp waste (Paper, packaging, food, etc.)	15 L of ash daily	Incineration (combustibles only)	Packaged and shipped off-site for disposal
Greywater	Grey Water	1500 litres/day for 15 people (max)	Bio-Barrier membrane	Treat, Test and release
Hazardous Waste –	Items	~14 m ³	Material will	Shipped

PCBs, Heavy Metals	contaminated with PCBs and Heavy Metals		be packaged as per the requirements of the Transportation of Dangerous Goods Regulations	south for treatment and/or disposal at Licensed Hazardous Waste Facilities
Non - hazardous waste	Scrap metal	~125 m ³	Material will be collected, consolidated and transported off-site	Shipped to an appropriately licensed disposal facility
Contaminated Soil – Tier II	Soil lightly contaminated with metals	Total = ~50 m ³	Packaged and shipped south for disposal	Packaged and shipped south for disposal
Untreated Clean Wood	Untreated Clean Wood	15 m ³	Open burn clean wood	Open burn clean wood.

16. **OTHER AUTHORIZATIONS** – In addition to the sub-surface and surface land use authorizations provided in Block 6, indicate any other authorizations required in relation to the proposed undertaking. For each provide the following:

Authorization: _____

Administering Agency: _____

Project Activity: _____

Date (expected date) of issuance: _____ Date of expiry: _____

17. **PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES** - Describe direct, indirect, and cumulative impacts related to water and waste.

“Environmental Screening Assessment of the Proposed Remediation of the Contwoyto Former Weather Station Contwoyto Lake, Nunavut” Prepared by SENES in October 2013. This report can be found in Appendix 6.

18. **WATER RIGHTS OF EXISTING AND OTHER USERS OF WATER**

Provide the names, addresses and nature of use for any known persons or properties that may be adversely affected by the proposed undertaking, including those that hold licences for water use in precedent to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline holders, and holders of other rights of a similar nature.

NONE

Advise the Board if compensation has been paid and/or agreement(s) for compensation have been

N/A

Advise the Board of any substantial affect of the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL), and advise the Board if negotiations have commenced or an agreement to pay compensation for any loss or damage has been reached with one or more Designated Inuit Organization (DIO).

No concerns were raised with regards to the proposed remediation work during this meeting. Additional community meetings will be held throughout the project to keep community members up to date on project activities and employment/contracting opportunities.

N/A

N/A

Date	Title	Author	Location
------	-------	--------	----------

2008	Arctic King Operations (Fuel Bladder) Operations Manual	SEI Industries (Provided by Delta/Carter)	Available Upon Request
2009	Abandoned Military Sites Remediation Protocol (AMSRP)	INAC	Available Upon Request
2011	Integrated Phase I and Phase II Environmental Site Assessment WK117 – Contwoyto Lake	WESA	Available Upon Request
2013	Contwoyto Lake Weather Station Final Phase III ESA	SENES	Available Upon Request
2013	Delta /Carter Ltd Joint Venture Mobilization / Demobilization Options Plan & Supplemental Information	Delta/Carter	Appendix 10

Copies of some of these reports have been provided in the Appendices. Copies of the reports not included will be provided upon request.

24. **PROPOSED TIME SCHEDULE** – Indicate the proposed start and completion dates for each applicable phase of development (construction, operation, closure, and post closure).

Construction

Proposed Start Date: February 2014 Proposed Completion Date: March 31 2016
(month/year) (month/year)

Operation

Proposed Start Date: February 2014 Proposed Completion Date: March 31 2016
(month/year) (month/year)

Closure

Proposed Start Date: October 2014 Proposed Completion Date: March 31 2016
(month/year) (month/year)

Post - Closure

Proposed Start Date: October 2014 Proposed Completion Date: March 31, 2016
(month/year) (month/year)

For each applicable phase of development indicate which season(s) activities occur.

Construction

☒ Winter ☐ Spring ☒ Summer ☒ Fall ☐ All season

Operation

☐ Winter ☒ Spring ☒ Summer ☒ Fall ☐ All season

Closure

☒ Winter ☐ Spring ☐ Summer ☒ Fall ☐ All season

Post - Closure

☒ Winter ☐ Spring ☐ Summer ☒ Fall ☐ All season

25. PROPOSED TERM OF LICENCE

Number of years (maximum of 25 years): Five (5) years

Requested Date of Issuance: February 2014 Requested Expiry Date: January 2019
(month/year) (month/year)

(The requested date of issuance must be at least three (3) months from the date of application for a type B water licence and at least one (1) year from the date of application for a type A water licence, to allow for processing of the water licence application. These timeframes are approximate and do not account for the time to complete any pre-licensing land use planning or development impact requirements, time for the applicant to prepare and submit a water licence application in accordance with any project specific guidelines issued by the NWB, or the time for the applicant to respond to requests for additional information. See the NWB's *Guide 5: Processing Water Licence Applications* for more information)

26. ANNUAL REPORTING – If not using the NWB's *Standardized Form for Annual Reporting*, provide details regarding the content of annual reports and a proposed outline or template of the annual report.

Will use the NWB Standardized Form for Annual Reporting.

27. CHECKLIST – The following must be included with the application for the water licensing process to begin.

Written confirmation from the NPC confirming that NPC's requirements regarding land use plan conformity have been addressed.

☐ Yes ☒ No If no, date expected **Submitted same time as Water License (November 2013)**

Written confirmation from the NIRB confirming that NIRB's requirements regarding development impact assessment have been addressed.

☐ Yes ☒ No If no, date expected **December 2013**

Completed General Water Licence Application form.

☒ Yes ☐ No If no, date expected _____

Information addressing Supplemental Information Guideline (SIG) , where applicable (see Block 11)

☒ Yes ☐ No If no, date expected _____

English Summary of Application.

☒ Yes ☐ No If no, date expected _____

Inuktitut and/or Inuinnaqtun Summary of Application.

☒ Yes ☐ No If no, date expected _____

Application Fee of \$30.00 CDN (Payee Receiver General for Canada).

☐ Yes ☒ No If no, date expected _____

Water Use Fee Deposit of \$30.00 CDN (Payee Receiver General for Canada). The actual water use fee will be calculated by the NWB based upon the amount of water authorized for use in accordance with the Regulations at the time of issuance of the licence.

☐ Yes ☐ No If no, date expected _____

28. SIGNATURE

Natalie Plato

Name (Print)

Director, Lands and Contaminated Sites

Title (Print)

Natalie Plato

Signature

Nov 18, 2013

Date