

11/17/2017
Month/Day/Year

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NUNAVUT IMALIRIYIN KATIMAYIT
NUNAVUT WATER BOARD
OFFICE DES EAUX DU NUNAVUT

DOCUMENT MANAGEMENT

Original Document Date: April 2010

DOCUMENT AMENDMENTS

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



1. LICENSEE CONTACT INFORMATION

Is the licensee the same as that referred to on the existing licence?

☒ Yes ☐ No

If No, a licence assignment must be completed and approved by the NWB. **A renewal will only be issued in the name of the current licensee in the absence of assignment of the licence.**

If the licensee is the same, but the name of the licensee has changed, attach a certificate of name change.

Name: AREVA Resources Canada Inc.

Address: P.O. Box 9204
817-45th Street West
Saskatoon SK
S7N 3X5

Phone: 1(306) 343-4513

Fax: 1 (306) 343-4632

e-mail: john.robbsins@areva.com

2. LICENSEE REPRESENTATIVE CONTACT INFORMATION – If different from Block 1.

Name:

Address:

Phone:

Fax:

e-mail:

(Attach authorization letter.)

3. NAME OF PROJECT

Is the name of the project the same as that considered in the existing water licence?

☒ Yes ☐ No

Indicate the name of the project including the name of the location: Name of the project - Kiggavik Project, location – Kiggavik Lease and St. Tropez Lease.

4. LOCATION OF UNDERTAKING

Is the location of the undertaking the same as that considered in the existing water licence?

☒ Yes ☐ No

Project Extents

NW:	Latitude: 64° 39' 26.46" N	Longitude: 97° 59' 8.26" W
NE:	Latitude: 64° 39' 26.46" N	Longitude: 97° 20' 52.44" W
SE:	Latitude: 64° 17' 5.9"N	Longitude: 97° 20' 52.44" W
SW:	Latitude: 64° 17' 5.9"N	Longitude: 97° 59' 8.26" W

Camp Location(s)

Latitude: 64°26'29" N Longitude: 97°39'34" W

5. MAP

Are the locations of the main components of the undertaking the same as those considered in the existing licence?

☒ Yes ☐ No

The location of the Kiggavik camp, and fuel cache remain the same.

Attach a topographical map, indicating the main components of the undertaking.

NTS Map Sheet No.: 66A/05 Map Name: Figure 1.0-2 Kiggavik Main Area Components Map Scale: 1:35,000

6. NATURE OF INTEREST IN THE LAND

Is the nature of the interest in the land the same as that considered in the existing water licence?

☒ Yes ☐ No

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: **May 30, 2014** Date of expiry: **May 29, 2018**

☐ Inuit Owned Land (IOL) Authorization from Kitikmeot Inuit Association (KIA)

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

☒ IOL Authorization from Kivalliq Inuit Association (KivIA)

Date (expected date) of issuance: **April 3, 2007** Date of expiry: **Jan 3, 2018**

☐ 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: _____

Is the name of the entity(s) holding authorizations the same as that considered in the existing water licence?

☒ Yes ☐ No

If No, a licence assignment must be completed and approved by the NWB.

Name of entity(s) holding authorizations:

7. NUNAVUT PLANNING COMMISSION (NPC) DETERMINATION

Is the undertaking located in the same land use planning area as that considered in the existing licence?

☒ Yes ☐ No

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

☐ North Baffin ☒ Keewatin
☐ South Baffin ☐ Sanikiluaq
☐ Akunnig ☐ West Kitikmeot

Was a land use plan conformity determination required from NPC prior to the issuance of the existing water licence?

☒ Yes ☐ No

If Yes, indicate date issued and attach copy. [December 15, 2006](#)

Does the proposed renewal change the original NPC conformity determination or the need to obtain one?

☐ Yes ☒ No

If Yes, indicate date issued (or expected) and attach a copy. _____
If No, provide written confirmation from NPC confirming that a land use plan conformity review is not required.

8. NUNAVUT IMPACT REVIEW BOARD (NIRB) DETERMINATION

Was a screening determination required from NIRB prior to the issuance of the existing water licence?

☒ Yes ☐ No

If Yes, indicate date issued and attach copy. [April 3, 2007](#)

Does the proposed renewal change the original NIRB screening determination or the need to obtain one?

☐ Yes ☒ No

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

9. DESCRIPTION OF UNDERTAKING

Is the description of the undertaking the same as that considered in the existing water licence?

☒ Yes ☐ No

List and attach plans and drawings or project proposal.

The Kiggavik project is currently in a care and maintenance phase. The project will remain in care and maintenance for the majority of the term of the requested licence. When the project enters an active exploration phase the work will include the same activities as approved in the current licence, including prospecting, geological mapping, geochemical and geophysical surveys, environmental baseline studies, diamond drilling, drill core logging and sampling.

The Kiggavik project is inspected annually to ensure the camp and storage areas remain in good condition. Future inspections will assess reclamation progress.

10. OPTIONS

Are the alternative methods and locations that were considered to carry out the project the same as those considered in the existing water licence?

☒ Yes ☐ No

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

11. CLASSIFICATION OF PRIMARY UNDERTAKING

Is the primary undertaking the same as that considered in the existing water licence?

☒ Yes ☐ No

Indicate the primary classification of undertaking by checking one of the following boxes.

☐ Industrial

☐ Agricultural

☒ Mining and Milling (includes exploration/drilling/exploration camps)

☐ Conservation

☐ Municipal (includes camps/lodges)

☐ Recreational

☐ Power

☐ Miscellaneous (describe below):

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

12. WATER USE

Is the type(s) of water use(s) the same as that considered in the existing water licence?

☒ Yes ☐ No

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 OF WATER INVOLVED

Is the source of water the same as that considered in the existing licence?

☒ Yes

☐ No

Name of water source(s): During the active exploration phase water for the Kiggavik Camp is obtained from a small unnamed lake located to the north of camp. Early in the field season this lake may be completely frozen in which case a small unnamed lake to the east of camp will be used until the lake in the north becomes unfrozen. Water for drilling will be obtained from the numerous lakes in the vicinity of the drilling sites.

(show location(s) on map)

Figure 1.0-3 Exploration Viable Water Sources shows possible water sources areas. When the project returns to the active phase the NWB will be notified as to which areas drilling will take place prior to each field season. The coordinates for all water sources used will continue to be reported in the Annual Report.

Is the quality of the water source and its available capacity the same as that considered in the existing licence?

☒ Yes ☐ No

Describe the quality of the water source(s) and the available capacity(s): All water sources are freshwater lakes which will have sufficient quantity of water to support drilling activities without damaging fish habitat.

Is the overall estimated quantity of water to be used the same as that considered in the existing licence?

☒ Yes ☐ No

Provide the overall estimated quantity of water to be used: 299 m³/day

Are the quantity(s) of water to be used from each source the same as those considered in the existing licence?

☒ Yes ☐ No

Provide the estimated quantity(s) of water to be used from each source: The water proximal to drill sites will be drawn from unnamed ponds or lakes with the appropriate screen as per DFO Guidelines at a maximum rate of 81.76 m³/day for each drill.

Are the quantity(s) of water to be used for each purpose the same as those considered in the existing licence?

☒ Yes ☐ No

Provide the estimated quantities to be used for each purpose (camp, drilling, etc.):

Camp – 10 m³/day, Drills – 289 m³/day

Are the method(s) of extraction the same as those considered in the existing licence?

☒ Yes ☐ No

Describe the method(s) of extraction: The water intake will consist of a submersible pump and a filtered intake that complies with DFO guidelines for screens to prevent the entrainment of fish.

Are the quantity(s) of water returned to source(s) the same as those considered in the existing licence?

☒ Yes ☐ No

Estimated quantity(s) of water returned to source(s): Amount fluctuates daily and is unknown at this time.

Are the quality(s) of water(s) returned to source(s) the same as those considered in the existing licence?

☒ Yes ☐ No

Describe the quality(s) of water(s) returned to source(s): Water which is returned to the source is simply excess water that has been extracted from the source and redirected back into the source. If and when this occurs the water has not been altered in any way and therefore is the same quality going back into the source as it is coming out.

14. WASTE

Are the type(s) of waste(s) to be generated and/ or deposited the same as those considered in the existing licence?

☒ Yes ☐ No

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

- | | |
|--|---|
| <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"/> Contaminated soil and/or water |
| <input type="checkbox"/> Animal Waste | |
| <input checked="" type="checkbox"/> Other (describe): Mineralized and Non-mineralized Drill Cuttings | |

15. QUANTITY AND QUALITY OF WASTE INVOLVED

Are the quantity(s) of the types of wastes involved the same as those considered in the existing licence?

☒ Yes ☐ No

Are the composition(s) of the types of wastes involved the same as those considered in the existing licence?

☒ Yes ☐ No

Are the method(s) of treatment for the types of waste involved the same as those considered in the existing licence?

☒ Yes ☐ No

Are the method(s) of disposal for the types of waste involved the same as those considered in the existing licence?

☒ Yes ☐ No

For each type of waste indicated in Block 14, describe its composition, quantity in cubic meters/day, method of treatment and method of disposal. **This is a description of possible waste that may occur when the project returns to the active Exploration phase only. No waste will be involved during care and maintenance phase.**

Type of Waste	Composition	Quantity Generated	Treatment Method	Disposal Method
Sewage	Liquid	~6 m ³ /day during active phase 0 m ³ /day during care and maintenance phase	NA	Mixed with greywater for disposal into a designated low lying area located directly south of camp
Sewage	Solid	~0.8 m ³ /day during active phase 0 m ³ /day during care and maintenance phase	NA	Collected in pacto-toilets, Incinerated daily in on-site single chamber cyclonator incinerator.
Solid Waste	Paper, non-treated wood, food waste, domestic garbage		NA	Incinerated daily
Hazardous	Used aerosol cans, used oil filters			Properly sorted and stored for future transport to an approved facility
Bulky Items/ Scrap Metal	Old non-contaminated drill rods			Properly sorted and stored for future transport for proper disposal
Waste Oil				Properly sorted and stored for future transport to an approved facility
Greywater	Shower and kitchen water	Up to 10 m ³ /day during active phase 0 m ³ /day during care and maintenance phase	Kitchen grease and food particles removed inline	Discharged into a shallow sump containing a drum filled with different gravel sizes for filtering. Drum has holes in bottom to allow water to flow out.
Drill Cuttings (non-mineralized)	Uranium concentration <0.05%			Pumped to a natural low lying depression
Drill Cuttings (mineralized)	Uranium concentration >0.05%			Collected and stored in radioactive storage compound

16. OTHER AUTHORIZATIONS

In addition to the sub-surface and surface land use authorizations provided in Block 6, are the same authorizations required as considered in the existing licence?

☐ Yes ☐ No

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

Are predicted environmental impacts of the undertaking and proposed mitigation measures the same as those considered in the existing water licence?

☒ Yes ☐ No

Describe direct, indirect, and cumulative impacts related to water and waste. [The predicted environmental effects/impacts continue to be negligible through the application of AREVA's Environmental Management System. This system includes AREVA's Spill Contingency Plan, Radiation Protection Plan, Abandonment and Restoration Plan, Wildlife Mitigation and Monitoring Plan, Waste Management Plan, Noise Abatement Plan and Uranium Exploration Plan.](#)

18. WATER RIGHTS OF EXISTING AND OTHER WATER USERS

Are the effects of the undertaking on any known persons or property including those that hold licences for water use in precedence 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, the same as those considered in the existing water licence?

☒ Yes ☐ No

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.

Advise the Board if compensation has been paid and/or agreement(s) for compensation have been reached with any existing or other users.

19. INUIT WATER RIGHTS

Are the effects of the undertaking on the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL) the same as those considered in the existing water licence?

✓ Yes ☐ No

There are no predicted effects to the quality, quantity or flow of water flowing through Inuit Owned Lands.

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).

20. CONSULTATION - Provide a summary of any consultation meetings including when the meetings were held, where and with whom. Include a list of concerns expressed and measures to address concerns.

Consultations were completed each year during active exploration and reported in the Annual Reports. No concerns with exploration activities were expressed.

21. SECURITY INFORMATION

Is the financial security assessment the same as that considered in the existing water licence?

✓ Yes ☐ No

Is the estimate of the total financial security for final reclamation the same as that considered in the existing water licence?

✓ Yes ☐ No

An estimate for total financial security was not submitted with the original water licence application; however, AREVA is working closely with the Kivalliq Inuit Association (KIA) on the arrangements of financial security. If required for information purposes, AREVA can forward the security estimates to the NWB.

Provide an estimate of the total financial security for final reclamation equal to the total outstanding reclamation liability for land and water combined sufficient to cover the highest liability over the life of the undertaking. Estimates of reclamation costs must be based on the cost of having the necessary reclamation work done by a third party contractor if the operator defaults. The estimate must also include contingency factors appropriate to the particular work to be undertaken.

Where applicable, the financial security assessment should be prepared in a manner consistent with the principals respecting mine site reclamation and implementation found in the *Mine Site Reclamation Policy for Nunavut*, Indian and Northern Affairs Canada, 2002.

22. FINANCIAL INFORMATION

Is the statement of financial security the same as that considered in the existing water licence?

☒ Yes ☐ No

Provide an updated statement of financial security.

If the applicant is a business entity please answer the questions below:

Is the list of the officers of the company the same as those considered in the existing water licence?

☐ Yes ☒ No

Provide a list of the officers of the company.

[Attached to application](#)

Is the Certificate of Incorporation or evidence of registration of the company name the same?

☒ Yes ☐ No

Attach a copy of the Certificate of Incorporation or evidence of registration of the company name.

23. STUDIES UNDERTAKEN TO DATE

List and attach updated studies, reports, research etc.

[An extensive environmental baseline program was undertaken between 2008 and 2011 in support of the Draft Environmental Impact Statement \(DEIS\) which was submitted to the Nunavut Impact Review Board \(NIRB\) in April 2012. The DEIS can be viewed on the NIRB ftp site.](#)

Provide a compliance assessment and status report including a response to any inspector's reports. The licensee must contact the NWB for licence specific direction in completing the assessment and report.

[Responses to inspector's reports are included in the Annual Report. During the active exploration phase all licence conditions and how AREVA is in compliance is included in each Annual Report.](#)

If in non-compliance, a licence may not be issued until compliance is achieved. If in non-compliance, attach plans/reports for consideration. Application will not be processed if significant issues of non-compliance exist.

24. PROPOSED TIME SCHEDULE

Is the time schedule for all phases of development (construction, operations, closure and post closure) the same as that considered in the existing licence?

☒ Yes ☐ No

During care and maintenance phase, site inspection will occur approximately late June to late July annually.
During the active exploration phase, activities will operate as approved in the current license, approximately May through September.

Indicate the proposed start and completion dates for each applicable phase of development (construction, operation, closure, and post closure).

Construction

Proposed Start Date: _____ Proposed Completion Date: _____
(month/year) (month/year)

Operation

Proposed Start Date: _____ Proposed Completion Date: _____
(month/year) (month/year)

Closure

Proposed Start Date: _____ Proposed Completion Date: _____
(month/year) (month/year)

Post - Closure

Proposed Start Date: _____ Proposed Completion Date: _____
(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

On what date does the existing licence expire? June 13, 2018

Indicate the proposed term of the renewal (maximum of 25 years): 5 years

Requested date of renewal issuance: April/ 2018 Requested Expiry Date: April/ 2023
(month/year) (month/year)

(The requested date of renewal 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

Is the annual report template expected to be the same as that considered in the existing licence?

☒ Yes ☐ No

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.

The Kiggavik Project's annual report is intended to meet all permit and license annual reporting requirements. At minimum the Kiggavik Project's Annual Report will include the following, as applicable:

- Summary of Current Year's Field Activities
- Summary of Next Field Season's Planned Activities
- Operational Plans (Summary of how AREVA is following AREVA's Operational Plans including the Waste Management, Spill Contingency, Abandonment and Restoration, Wildlife Mitigation and Monitoring, Radiation Protection, Noise Abatement and Uranium Exploration Plans)
- Community Engagement
- Inspections
- Progressive Reclamation
- Canada Wide Standards
- Compliance With Conditions
- Water Consumption and Management
- Water Use at Camp and Drills
- Artesian Flows
- Drilling Within 30 m of the Ordinary High Water Mark at End Grid Site
- Reportable Spills
- Revised Operational Plans

27. CHECKLIST

The following must be included with the application for renewal for the water licensing process to begin.

Completed Application for Water Licence Renewal form.

✓ Yes ☐ No If no, date expected _____

Updated plans, including designs and reports (see Block 23).

✓ Yes ☐ No If no, date expected _____

Updated security assessment (see Block 21).

✓ Yes ☐ No If no, date expected _____

Updated financial statement (see Block 22).

✓ Yes ☐ No If no, date expected _____

Compliance Assessment / Status Report (see Block 23).

✓ Yes ☐ No If no, date expected _____

English Summary of Renewal Application.

✓ Yes ☐ No If no, date expected _____

Inuktitut and/or Inuinnaqtun Summary of Renewal Application.

✓ Yes ☐ No If no, date expected _____

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

✓ Yes ☐ No If no, date expected _____

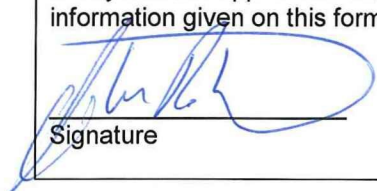
Water Use Fee Deposit of \$30.00 CDN (Payee Receiver General for Canada). The actual water use fee will be calculated by the NWB based upon the amount of water authorized for use in accordance with the Regulations at the time of issuance of the licence.

☐ Yes ☒ No If no, date expected: Water fee deposit sent November 8, 2017

28. SIGNATURE

I, John Robbins (print name)

certify that the application requires no changes to water use or waste disposal as previously authorized and that the information given on this form is, to the best of my knowledge, correct and complete.


Signature

Nov 17/17
Date

