



November 17, 2017

Mr. Karén Kharatyan  
Acting Licensing Manager  
Nunavut Water Board  
PO Box 119  
Gjoa Haven, NU X0B 1J0  
[licencing@nwb-oen.ca](mailto:licencing@nwb-oen.ca)

Dear Mr. Kharatyan:

**Re: Kiggavik Exploration Licence 2BE-KIG1318 – Renewal Application**

Please accept the attached submission as a request by AREVA Resources Canada Inc. to renew Nunavut Water Board (NWB) water licence 2BE-KIG1318 which expires June 13, 2018. Under the current NWB water licence the following amendments have been approved:

- Amendment No. 1 - issued on June 6, 2015 to allow for exploration activities to be undertaken in both Kiggavik and St. Tropez area.

Under the current and previous NWB Licenses (2BE-SIS0607 – expired May 2007, 2BE-KIG0708 – expired May 2008 and 2BE-KIG0812-expired December 2012), AREVA has maintained good communication and compliance standards with the NWB as evidenced in the annual report.

AREVA is confident that the attached company commitments will ensure protection of the environment. The following documents are enclosed.

- Project Summary – English and Inuktitut
- Amendment Application Form
- Application fee \$30.00

The following AREVA environmental Management Plans also support this amendment application. Copies of these plans are provided annually as appendices to the annual report and as revisions are completed. Additional hard copies of the following plans can be provided on request.

- Spill Contingency Plan



- Abandonment and Restoration Plan
- Waste Management Plan
- Noise Abatement Plan
- Wildlife Monitoring and Mitigation Plan
- Radiation Protection Plan
- Uranium Exploration Plan

Exploration at the Kiggavik Project received a positive conformity determination against the Keewatin Regional Land Use Plan by the Nunavut Planning Commission (NPC) on December 15, 2006. The NIRB issued a screening decision under the file No. 06AN085 on April 3, 2007 that no review would be required. NIRB subsequently determined a change in Project scope and issued additional recommendations in a letter dated August 30, 2007.

Please note that a copy of this amendment application has been forwarded to the NPC and the NIRB to confirm the proposed renewal remains within the original NPC conformity determination and the NIRB screening decision. If you have any questions or require additional information, please do not hesitate to contact Stephanie Forseille Coordinator, SHEQ Exploration at [stephanie.forseille@areva.com](mailto:stephanie.forseille@areva.com) or 306-343-4693 or me. Thank you in advance.

Best regards,

A handwritten signature in blue ink, appearing to read 'John Robbins', with a stylized flourish at the end.

John Robbins  
District Geologist Nunavut  
AREVA Resources Canada Inc.  
[john.robbsins@areva.com](mailto:john.robbsins@areva.com)  
(306) 343-4513

Enclosure

cc:

Atuat Shouldice – Indigenous and Northern Affairs Canada  
Brian Aglukark - Nunavut Planning Commission  
Sophia Granchino - Nunavut Impact Review Board  
Ryan Barry – Nunavut Impact Review Board

## **PROJECT SUMMARY**

The Kiggavik Project is a uranium surface exploration project located approximately 80 kilometres west of the community of Baker Lake. The project consists of the Kiggavik lease, which contains the Kiggavik Site to the north and Sissons site to the south, and the St. Tropez lease north of the Kiggavik Site. As the current NWB water use licence will expire June 13, 2018 AREVA is submitting this request for a licence renewal.

Planned activities for the next five years are decreased compared to those conducted during the 2013-2017 field seasons. In the near term, the Kiggavik Project is in a care and maintenance phase and no active field work is planned. If economic conditions become more favourable in the future, AREVA will evaluate increasing the exploration activity on the Kiggavik Project. Potential activities remain the same as approved in 2BE-KIG1318 and include prospecting, geological mapping, ground geophysical surveys, environmental baseline studies and diamond drilling, both exploration and geotechnical.

During the care and maintenance phase the site is inspected annually to ensure the camp and storage areas remain in good condition.

AREVA recognizes that continued economic and social growth depends on a healthy environment. AREVA is committed to carrying out its field programs in a safe, environmentally responsible and sustainable manner. AREVA's Exploration Department has developed and maintains an Integrated Management System which is ISO 14001:2015 and OHSAS 18001:2007 certified. AREVA is strongly dedicated to avoiding or reducing adverse impacts that our activities may have, and concern for the environment and our personnel is of paramount importance to AREVA.

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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  
817-45<sup>th</sup> Street West  
Saskatoon SK  
S7N 3X5

Phone: 1(306) 343-4513

Fax: 1 (306) 343-4632

e-mail: john.robins@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.

<input type="checkbox"/> North Baffin	<input checked="" type="checkbox"/> Keewatin
<input type="checkbox"/> South Baffin	<input type="checkbox"/> Sanikiluaq
<input type="checkbox"/> Akunnig	<input type="checkbox"/> 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 m<sup>3</sup>/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 m<sup>3</sup>/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 m<sup>3</sup>/day, Drills – 289 m<sup>3</sup>/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 <sup>3</sup> /day during active phase 0 m <sup>3</sup> /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 <sup>3</sup> /day during active phase 0 m <sup>3</sup> /day during care and maintenance phase	NA	Collected in pecto-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 <sup>3</sup> /day during active phase 0 m <sup>3</sup> /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 \_\_\_\_\_

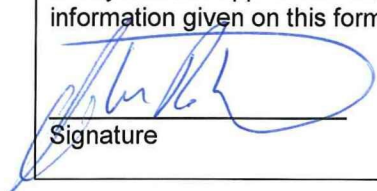
Water Use Fee Deposit of \$30.00 CDN (Payee Receiver General for Canada). The actual water use fee will be calculated by the NWB based upon the amount of water authorized for use in accordance with the Regulations at the time of issuance of the licence.

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

**28. SIGNATURE**

I, John Robbins (print name)

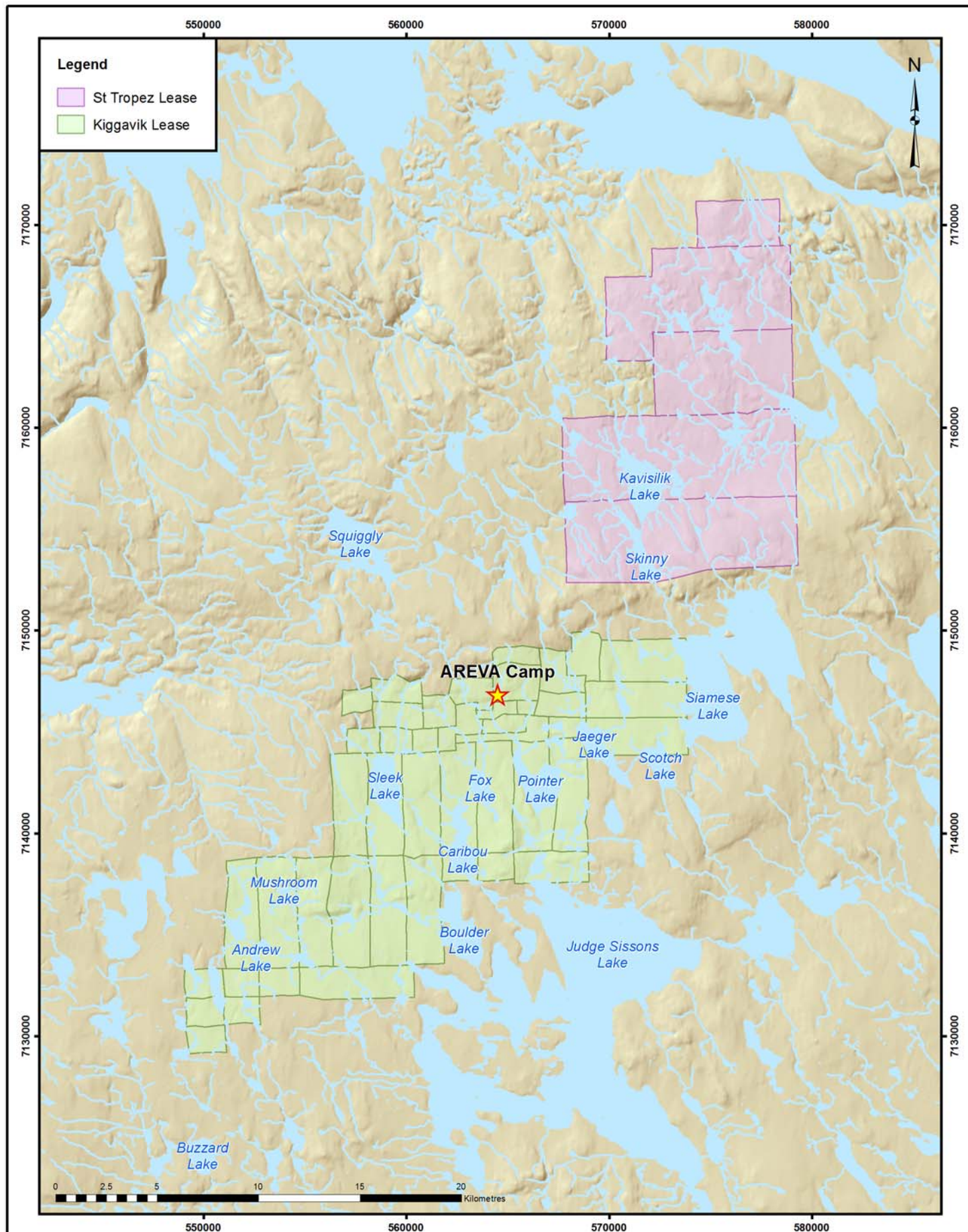
certify that the application requires no changes to water use or waste disposal as previously authorized and that the information given on this form is, to the best of my knowledge, correct and complete.

  
Signature

Nov 17/17  
Date







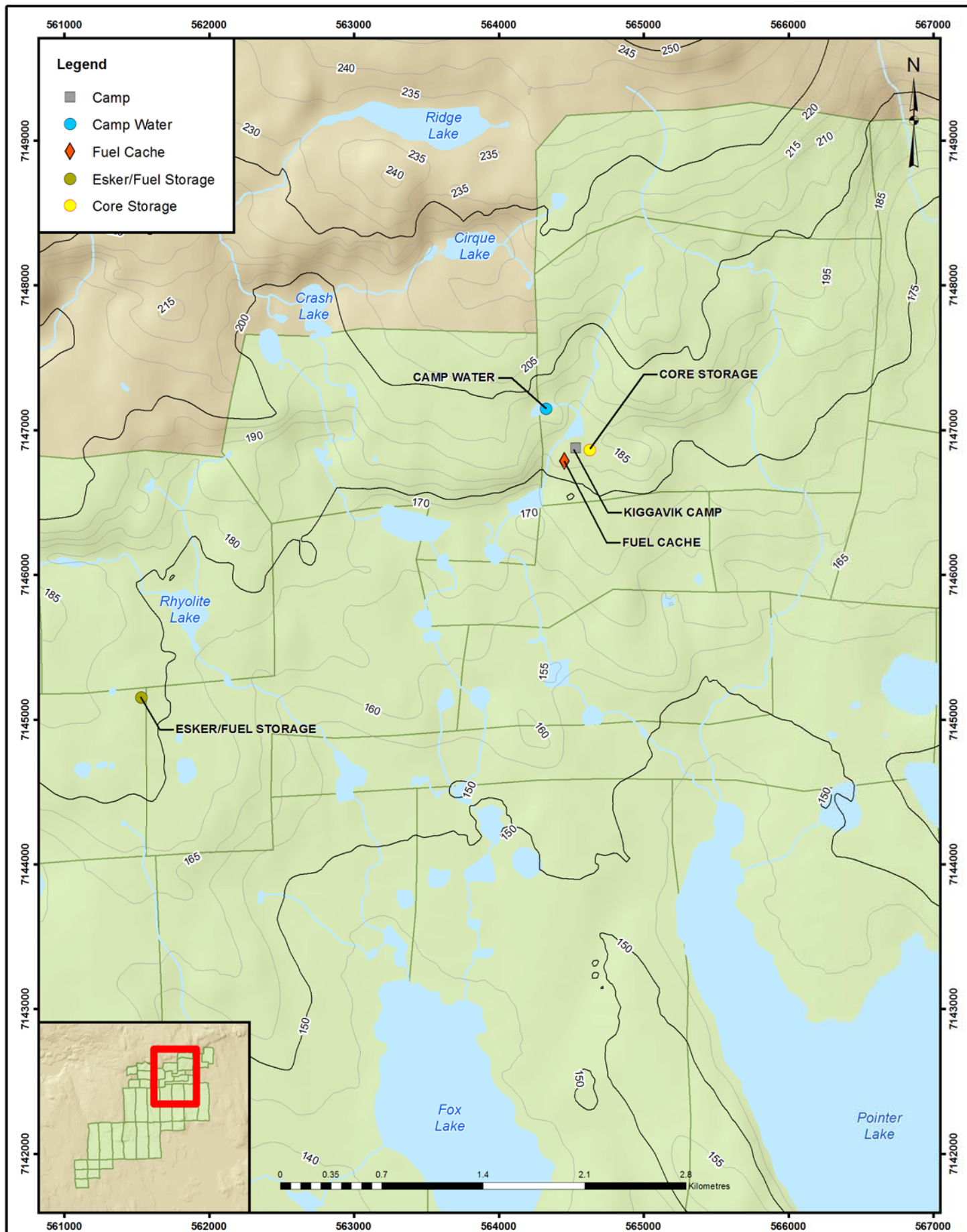
Projection: NAD 1983 UTM Zone 14N  
 Compiled: C. Carter  
 Date: 09/11/2017  
 File: K109A039  
 Data Sources: Natural Resources Canada, Geobase®, National Topographic Database, AREVA Resources Canada Inc.

# **KIGGAVIK AND ST TROPEZ LEASE BOUNDARIES**

**KIGGAVIK  
PROJECT**



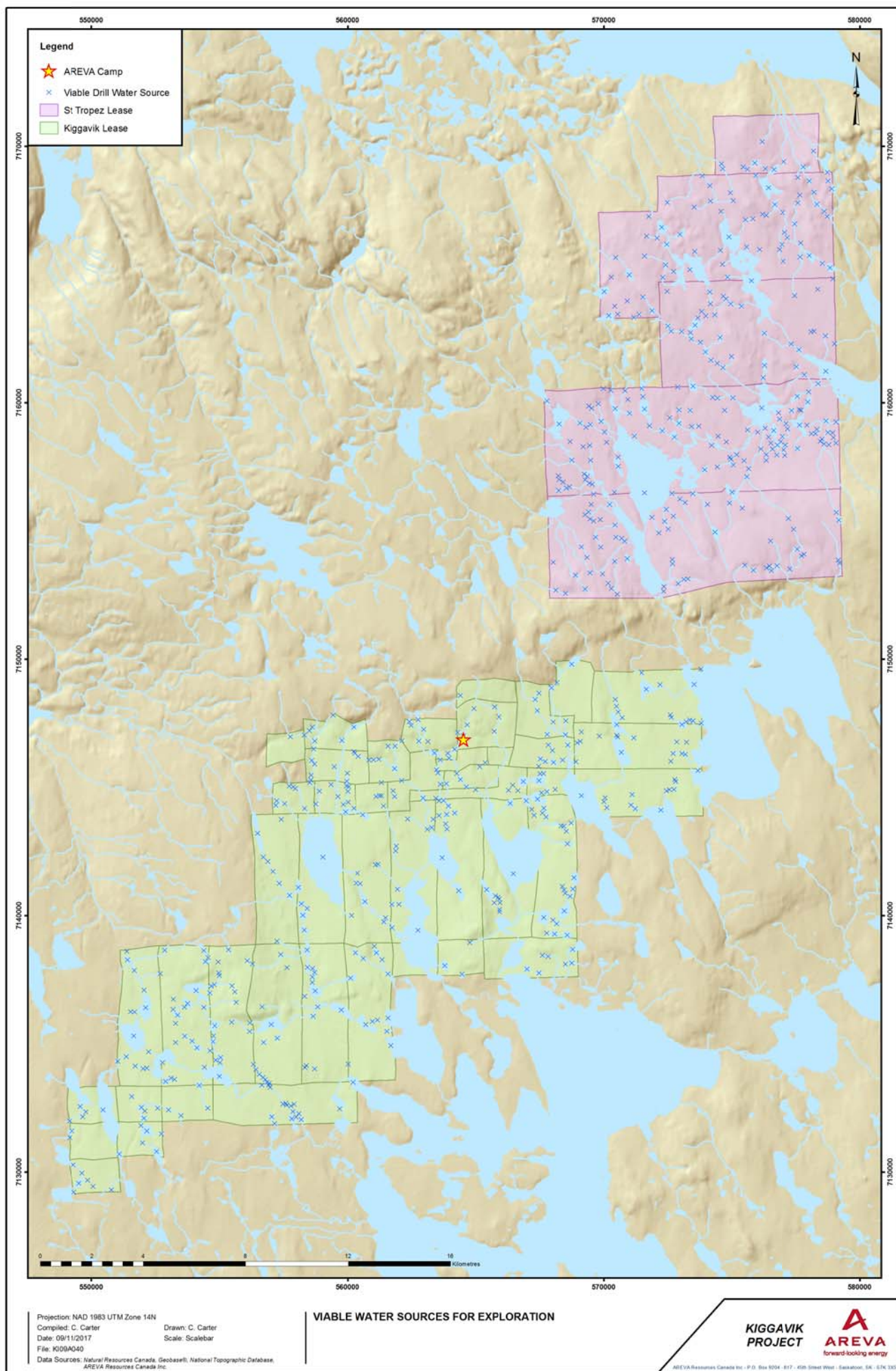




## KIGGAVIK AREA COMPONENTS

**KIGGAVIK  
PROJECT**





**AREVA Resources Canada Inc.**  
**Board of Directors**  
**2017**

<b>Name</b> (Last name, First name)	<b>Position held as Officer</b> (if any)
MARTIN, Vincent	Chairman and <input type="checkbox"/> President & CEO
VAN LAMBALGEN, Tammy	Secretary
MITTLER, Andreas	
HARDOUIN, Pierre	Vice President, Finance and CFO



**AREVA Resources Canada Inc.**  
**List of Officers**  
**2017**

Current Officers

<b>Name</b> (Last name, First name)	<b>Position held as Officer</b> (if any)
MARTIN, Vincent	President & CEO
HARDOUIN, Pierre	Vice President, Finance & CFO
VAN LAMBALGEN, Tammy	Vice President, Corporate Affairs & General Counsel
HUFFMAN, Dale	Vice President, Science, Health, Environment and Regulatory Relations
PACQUET, Eric	Vice President, Operations & Projects
WALLS, Bruce	Vice President, Human Resources and Industrial Relations
ROUX, Joseph	Vice President, Exploration
HARRIS, Laurie	Vice President, Banking



Industry Canada

Industrie Canada

**Certificate  
of Amendment**

**Canada Business  
Corporations Act**

**Certificat  
de modification**

**Loi canadienne sur  
les sociétés par actions**

**AREVA Resources Canada Inc.**

**333436-8**

Name of corporation-Dénomination de la société

Corporation number-Numéro de la société

I hereby certify that the articles of the  
above-named corporation were amended:

Je certifie que les statuts de la société  
susmentionnée ont été modifiés:

- a) under section 13 of the *Canada Business Corporations Act* in accordance with the attached notice;
- b) under section 27 of the *Canada Business Corporations Act* as set out in the attached articles of amendment designating a series of shares;
- c) under section 179 of the *Canada Business Corporations Act* as set out in the attached articles of amendment;
- d) under section 191 of the *Canada Business Corporations Act* as set out in the attached articles of reorganization;

- ☐ a) en vertu de l'article 13 de la *Loi canadienne sur les sociétés par actions*, conformément à l'avis ci-joint;
- ☐ b) en vertu de l'article 27 de la *Loi canadienne sur les sociétés par actions*, tel qu'il est indiqué dans les clauses modificatrices ci-jointes désignant une série d'actions;
- ☒ c) en vertu de l'article 179 de la *Loi canadienne sur les sociétés par actions*, tel qu'il est indiqué dans les clauses modificatrices ci-jointes;
- ☐ d) en vertu de l'article 191 de la *Loi canadienne sur les sociétés par actions*, tel qu'il est indiqué dans les clauses de réorganisation ci-jointes;

Richard G. Shaw  
Director - Directeur

May 30, 2006 / le 30 mai 2006

Date of Amendment - Date de modification



Nunavut Planning Commission  
Keewatin Regional Land Use Plan  
Conformity Determination  
**KIGGAVIK Project**



Kiggavik Sissons Advanced Exploration Project  
Mr. Barry McCallum  
Manager Nunavut Affairs  
AREVA Resources Canadian Inc. -  
P.O. Box 9204  
817 - 45th Street West  
Saskatoon Saskatchewan S7K 3X5 Canada  
Phone: (306) 343-4596  
Fax: (306) 343-4640  
Mobile: (306) 262-4636  
E-mail: barry.mccallum@areva.ca  
Camp & helicopter. Prospecting, geological mapping, geochemical and geological  
surveys, airborne geophysics & diamond drilling. Environmental baseline work incl  
surface hydrology, aquatic and terrestrial components.

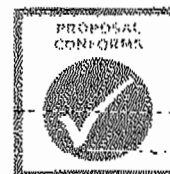
PROJECT CONFORMS TO ALL APPLICABLE TERMS OF THE ...  
KEEWATIN REGIONAL LAND USE PLAN.

Please refer to the following eleven pages for details.

Signature of NPC Conformity Determination Officer

Dec. 15/06

Date



ES



Nunavut Planning Commission  
Keewatin Regional Land Use Plan  
Conformity Determination

KIGGAVIK Project



**ARCHAEOLOGICAL SITES AND ARTIFACTS**

*Tent ring. Land users must report the discovery of suspected archaeological sites to the Department of Culture, Language, Elders and Youth (Government of Nunavut).  
Photo © Nunavut Planning Commission.*

**Conformity Requirement 2.15.8** Artifacts must be left where they are found. All land users are responsible for reporting the location of, or any removal or disturbance of, artifacts to CLEY.

**Conformity Requirement 4.3** The NPC and the CMC shall continue to hold a central registry of archaeological sites and continue to monitor land use activities to protect these sites. Information about the location and identity of archaeological sites in specific areas, and the measures necessary to protect them, shall be included in land use permits. Land users shall report the discovery of all suspected archaeological sites to CLEY.

**DETERMINATION**

The proponent will abide by conformity requirements 2.15.8 and 4.3 (conforms).



PS





Nunavut Planning Commission  
*Keewatin Regional Land Use Plan*  
Conformity Determination  
KIGGAVIK Project



#### CARIBOU PROTECTION

*Caribou at a water crossing.  
Land users shall follow the caribou protection measures.*

**Conformity Requirement 2.6** Development activities shall be prohibited on all public lands and waters within all caribou calving areas during calving season and within caribou water crossings in the Keewatin, in accordance with the terms of DIAND caribou protection measures contained in Appendix H. Development activities shall be prohibited on IOL within all caribou calving areas during calving season and within caribou water crossings in the Keewatin, in accordance with the KIA caribou protection measures (an example of which is contained in Appendix H.) These measures shall be enforced throughout the region by DIAND, KIA and DSD, to the full extent of their respective jurisdictions.

**Conformity Requirement 2.15.7** During the caribou calving, post-calving and migrating seasons, land use activities should be restricted to avoid disturbing caribou, in general, and activities will be governed more specifically by caribou protection measures such as those contained in Appendix H.

#### DETERMINATION

The proponent will abide by the Caribou Protection Measures (conferred).



RS



Nunavut Planning Commission  
Keewatin Regional Land Use Plan  
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KIGGAVIK Project



**CLEANUP AND POLLUTION**

*Fuel drums on the land. Project proponents must undertake to remove old fuel drums.  
Photo by Luke Sulak*

**Conformity Requirement 2.8**

- b) Community residents in particular, and all land users in general, shall be actively involved in planning and conducting cleanup operations, whenever possible and practicable.
- c) Refuse, such as fuel drums and scrap metal, shall be recycled where possible.
- d) Sites containing toxic materials shall be given priority for cleanup, and the location of these sites shall be widely publicized to warn residents.
- e) Sites within or near caribou calving grounds, near water and near communities shall also be given priority for cleanup.

**Conformity Requirement 2.9** New occurrences of pollution, garbage and contamination caused by anyone shall be prevented. Land users shall ensure that all drums are safely recovered.

**Conformity Requirement 2.10** The principle of "the polluter pays" shall apply to a strategy for cleaning up the environment. Where it is possible to identify the person, company or agency responsible for creating an abandoned or inactive waste site, they shall be made responsible for the cleanup and restoration of the site.

**Conformity Requirement 2.15.1** The landscape of each camp and other land use sites will be restored to its original condition to the greatest degree possible. When possible and feasible, old sites will be restored to the natural state. (Code of Good Conduct - Appendix G)

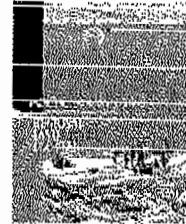
**DETERMINATION**

The proponent will abide by all conformity requirements (conforms).





Nunavut Planning Commission  
Keewatin Regional Land Use Plan  
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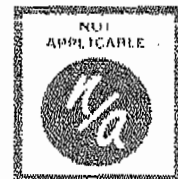
**HYDROCARBON EXPLORATION**

Hydrocarbon exploration validity vs. cost.  
Hydrocarbon exploration is restricted around Southampton and Coats Islands.  
Graphic © PetroConsult Pty Ltd. ent. ring.

**Conformity Requirement 3.8** Hydrocarbon exploration shall continue to be restricted in the area encompassing southern Southampton Island and Coats Island, as at present.

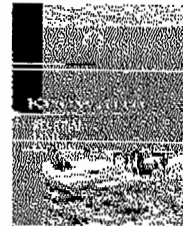
**DETERMINATION**

The project proposal is not for hydrocarbon exploration in the area encompassing southern Southampton Island and Coats Island (Conformity Requirement 3.8 is not applicable).





Nunavut Planning Commission  
Keewatin Regional Land Use Plan  
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KIGGAVIK Project



### HYDROELECTRIC DEVELOPMENT

Hydro project in Québec.  
Hydro projects in a number of provinces, as well as Nunavut, can have a cumulative effect on James Bay, Hudson Bay and Hudson Strait.

Photo by Michele Ernsting, Radio Netherlands.

**Conformity Requirement** **Conformity Requirement 2.13** The possible cumulative impacts of additional hydroelectric power development in Manitoba, Ontario and Quebec on the ecosystem of Hudson Bay, James Bay and Hudson Strait must be examined before more hydroelectric development proceeds.

### DETERMINATION

The project proposal is not for hydroelectric development (conformity requirement 2.13 is not applicable).





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**LOCAL PURCHASE OF SUPPLIES AND SERVICES**

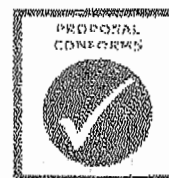
*Taxi at the West Meladine exploration camp.  
Land users shall follow the practice of local purchase of supplies and services.*

*Photo © WMC Limited.*

**Conformity Requirement 2.15.5** Whenever practicable, and consistent with sound procurement management, land users will follow the practice of local purchase of supplies and services. (Code of Good Conduct, Appendix G.)

**DETERMINATION**

The proponent will abide by conformity requirement 2.15.5 (conforms).





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 Keewatin Regional Land Use Plan  
 Conformity Determination  
 KIGGAVIK Project



LOW-LEVEL FLIGHTS

Beaver floatplane arriving at a camp.  
 Pilots shall avoid disturbance to people and wildlife wherever possible.  
 Photo © Luke Coady.

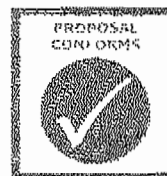
**Conformity Requirement 2.15.3** Generally, low-level flights by aircraft at less than 300 metres should not occur where they will disturb wildlife or people. If such flights are necessary, they should only take place after consultation with the appropriate communities. All land users are responsible for reporting to the land managers any illegal or questionable low-level flight.

**Conformity Requirement 5.4** Low level flights shall not take place unless absolutely necessary. Should they be necessary, pilots shall avoid disturbance to people and wildlife wherever possible.

## DETERMINATION

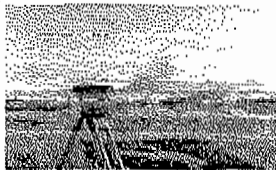
The project proposal does involve absolutely necessary low level flights, the proponent has or will consult with the communities, and pilots will avoid disturbance to wildlife and people (conforms).

**Comment:**  
 Reasonable comments on the necessity of low-level flight





Nunavut Planning Commission  
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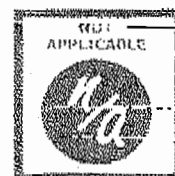
**MINE CLOSURE AND RESTORATION**

Blasting at a northern mine site.  
The Keewatin Regional Land Use Plan requires restoration plans  
for all proposed mining developments in the Region.  
Photo © Nunavut Planning Commission.

**Conformity Requirement 3.4** All proposals for mining developments shall include adequate plans for mine closure and restoration of the site.

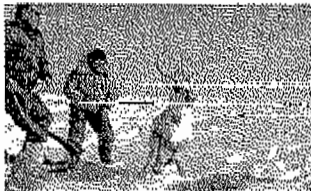
**DETERMINATION**

The project proposal is not for mining development (conformity requirement 3.4 is not applicable).





Nunavut Planning Commission  
 Keewatin Regional Land Use Plan  
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### ACADEMIC AND / OR SCIENTIFIC RESEARCH

*Successfully collaring a caribou.  
 Local services and employment shall, whenever possible, be  
 incorporated in scientific research programs in the Keewatin*

*Photo © Robert Mulders*

**Conformity Requirement 6.2** Local and traditional knowledge shall be sought and, when available and relevant, shall be integrated with the scientific knowledge.

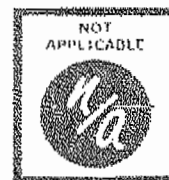
**Conformity Requirement 6.3** Research programs conducted in the Keewatin shall, where possible, rely on local services and local employment.

**Conformity Requirement 6.4** All scientific researchers shall communicate with the communities in clear, non-technical language in Inuktitut and English. Scientific researchers shall communicate the results of their research to the communities.

**Conformity Requirement 6.5** Academic and scientific researchers shall make all reasonable efforts to consult the NRI concerning research topics or fields that would be of benefit and interest to local residents.

### DETERMINATION

The project proposal does not involve academic and/or scientific research (conformity requirements are not applicable).

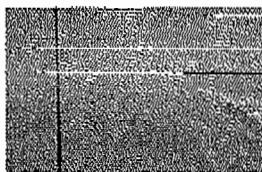
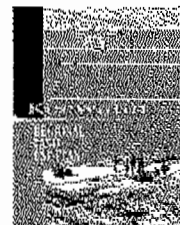






Nunavut Planning Commission  
Keewatin Regional Land Use Plan  
Conformity Determination

KIGGAVIK Project



**TRANSPORTATION AND/OR COMMUNICATIONS CORRIDORS :**

*Proposals for transportation corridors shall be publicly reviewed, and may lead to amendment of the Plan.*

*Photo © Nunavut Planning Commission.*

**Conformity Requirement 5.6** All parties wishing to develop a transportation and/or communications corridor shall submit to the NPC a detailed application for an amendment. This application must include an assessment of alternative routes, plus the cumulative effects of the preferred route. It shall provide reasonable options for other identifiable transportation and utility facilities. In particular, this application must meet the information requirements set out in Appendix J.

**Conformity Requirement 5.7** The NPC and either NRR or a panel acting under s. 12.4.7 of the NLCA shall publicly review the proposed corridor to determine whether the proposal adequately meets the requirements of Appendix J and the guidelines of Appendix J. Once it is determined that a proposal meets the guidelines, the NPC may request the Minister of DIAND to amend the plan to include the new transportation corridor.

**DETERMINATION**

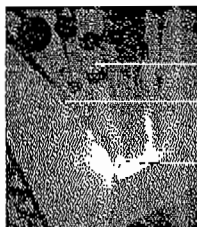
The project proposal is not for the development of a transportation and/or communications corridor (conformity requirements 5.6 and 5.7 are not applicable).





Nunavut Planning Commission  
Keewatin Regional Land Use Plan  
Conformity Determination .....

KIGGAVIK Project



**URANIUM DEVELOPMENT**

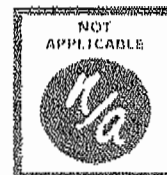
*Uranium development is currently not permitted in the Keewatin Planning Region.*

**Conformity Requirement 3.5** Uranium development shall not take place until the NPC, NTRB, the NWB and the NWMB have reviewed all of the issues relevant to uranium exploration and mining. Any review of uranium exploration and mining shall pay particular attention to questions concerning health and environmental protection.

**Conformity Requirement 3.6** Any future proposal to mine uranium must be approved by the people of the region.

**DETERMINATION**

The project proposal is not for uranium development (conformity requirements 3.5 and 3.6 are not applicable).





- c) the proposal is insufficiently developed to permit proper screening, and should be returned to the proponent for clarification; or
- d) the potential adverse impacts of the proposal are so unacceptable that it should be modified or abandoned.

### NIRB Assessment and Decision

After a thorough assessment of all material provided to the Nunavut Impact Review Board (NIRB or Board) (see Appendix D), the decision of the Board as per section 12.4.4 of the NLCA is:

**12.4.4 (a):** the proposal may be processed without a review under Part 5 or 6; NIRB may recommend specific terms and conditions to be attached to any approval, reflecting the primary objectives set out in Section 12.2.5.

### NIRB Recommendations and Recommended Conditions

Although this project proposal is not located within known calving grounds for the Beverly caribou herds, the Board recognizes that the project area may be used for spring-migration, post-calving, and late summer activities for the Beverly caribou herd. In addition, the Board also recognizes that the Thelon Heritage River is considered to be part of Canada's Heritage River System, and understands that some of the project activities, such as geophysical survey flying, will be taking place approximately 10km from the river. Therefore, the Board is recommending broader terms and conditions because of the sensitivities of the Beverly caribou herd and the importance of the Thelon Heritage River. They are the following:

1. As an overriding consideration, Indian and Northern Affairs Canada (INAC) impose strict mitigation measures, conditions and monitoring requirements pursuant to the Federal Land Use Permit, which require AREVA (the Proponent) to respect the sensitivities and importance of the area. These mitigation measures, conditions and monitoring requirements should be in regard to:
  - a. Location and Area
  - b. Time
  - c. Equipment
  - d. Methods and Techniques
  - e. Control or Prevention of Flooding, Erosion and Subsidence of Land
  - f. Use, Storage, Handling and Disposal of Chemical or Toxic Material
  - g. Wildlife and Fisheries Habitat
  - h. Objects and Places of Recreational, Scenic and Ecological Value
  - i. Petroleum Fuel Storage
  - j. Matters Not Consistent with the Regulations
2. INAC must consider the importance of conducting regular Land Use Inspections, pursuant to the authority of the Federal Land Use Permit, while the project is in operation. The Land Use Inspections should be focused on ensuring the Proponent is in compliance with the DIAND Caribou Protection Measures.
3. INAC recognize that any activity related to this application (INAC Land Use Permit application N2006C0037) outside the original scope of the project proposal **will** be considered a new project and must be submitted to NIRB for screening. In addition, NIRB recommends that any renewal requests for the project proposal should be forwarded to NIRB for re-screening.

4. The Kivalliq Inuit Association (KIA) impose strict mitigation measures and/or Environment Terms and Conditions pursuant to the Inuit Owned Lands License (KVK306C02) in regard to:
  - a. General Standards
  - b. Fuel and Chemical Storage
  - c. Campsites
  - d. Fisheries
  - e. Ground Disturbance
  - f. Wildlife
  - g. Any other conditions recommended by the appropriate Community Lands and Resource Committee (CLARC)
5. KIA recognize that any activity related to this application (KIA Inuit Owned Lands License KVL306C02) outside the original scope of the project proposal **will** be considered a new project and must be submitted to NIRB for screening. In addition, NIRB recommends that any renewal requests for the project proposal should be forwarded to NIRB for re-screening.
6. The Government of Nunavut – Department of Environment (GN-DOE) Conservation Officers should conduct random inspections of the project location during the months of May, June, July and August to ensure the Proponent is in compliance with the DIAND Caribou Protection Measures.
7. The GN-DOE should conduct on-going review of wildlife monitoring results submitted from the Proponent as required by the Wildlife Mitigation and Monitoring Plan. Following submission of the required annual report by January 31, 2008 to NIRB, INAC, the KIA and the GN-DOE, the GN-DOE should report to NIRB and INAC its findings regarding the possible impact of the project on the Beverly and Ahiak caribou herds. As noted in correspondence provided to NIRB, the GN recommended a one-year Land Use Approval to be issued, subject to the findings of the 2007 GN/GNWT Population Surveys of the Beverly and Ahiak Caribou Herds.

**In addition, the Board is recommending the following or similar project-specific terms and conditions be imposed upon the Proponent through all relevant legislation pursuant to 12.4.4(a) of the NLCA:**

1. The term of the permitted activities associated with Land Use Permit N2006C0037 and Inuit Owned Lands License KVL306C02 is subject to any findings, direction or advice received by INAC and the KIA from the GN-DOE as a result of the 2007 GN/GNWT Population Surveys of the Beverly and Ahiak Caribou Herds.
2. AREVA (the Proponent) shall maintain a copy of this Screening Decision at the site of operation at all times.
3. The Proponent shall forward copies to NIRB of all permits obtained and required for this project prior to the commencement of the project.
4. The Proponent shall operate in accordance with commitments stated in Appendix A and all Operation Plans provided to NIRB, namely:
  - a. Spill Contingency Plan
  - b. Abandonment and Restoration Plan
  - c. Noise Abatement Plan
  - d. Waste Management Plan

- e. Wildlife Mitigation and Monitoring Plan
  - f. Radiation Safety Plan
  - g. Environmental Code of Practice
5. The Proponent shall submit an annual report with copies provided to the NIRB, INAC, the KIA, and GN-DOE by January 31 each year that the project is in operation commencing January 31, 2008. The report must contain, but not be limited to, the following information:
    - a. A summary of activities undertaken for the year and a work plan for the following year;
    - b. The results of environmental studies undertaken and plans for future studies;
    - c. A discussion of the implementation of the Operational Plans, and analysis regarding the effectiveness of the Operational Plans to mitigate adverse environmental impacts;
    - d. Specific to the Wildlife Mitigation and Monitoring Plan: the results from the Caribou Monitoring Program, wildlife encounters and actions/mitigation taken, an analysis of the effectiveness of mitigation measures for wildlife and any anticipated follow-up monitoring program(s);
    - e. A discussion regarding the effects to human health from uranium exploration activities;
    - f. A summary of local hires and initiatives;
    - g. A summary of community consultations
    - h. A summary of site-visits by Land Use Inspectors with results and follow-up actions, including those approvals given by Land Use Inspectors regarding Caribou Protection Measures;
    - i. Site photos;
    - j. Progressive reclamation work undertaken;
    - k. Efforts made to achieve compliance with the *Canadian Wide Standards for Dioxins and Furans*, and the *Canadian Wide Standards for Mercury*; and
    - l. A summary of how the Proponent has complied with NIRB conditions contained within this Screening Decision, and the conditions associated with all authorizations for the project proposal.
  6. The Proponent shall abide by all DIAND Caribou Protection Measures and those mitigation measures outlined in the Wildlife Mitigation and Monitoring Plan.
  7. The Proponent shall be prohibited to allow aircraft take-offs and landings when groups of caribou are within 1km of the airstrip or helipad.
  8. The Proponent must immediately update its Wildlife Mitigation and Monitoring Plan to include the following requirement:
    - a. Section 2.1 *During June and July* – To avoid injuries to caribou and humans, if one or more caribou approach within **1km** of drilling operations, then activities will be suspended until caribou leave the area.

Any subsequent direction provided by the Government of Nunavut Department of Environment and/or the Kivalliq Inuit Association regarding the Caribou Monitoring Plan must be forwarded to NIRB.
  9. The Proponent shall ensure that there is no hunting or fishing by employees of the company or any contractors hired unless proper Nunavut authorizations have been obtained.
  10. The Proponent shall ensure that the disposal of combustible camp wastes comply with the *Canadian Wide Standards for Dioxins and Furans*, and the *Canadian Wide Standards for*

*Mercury*. Efforts made to achieve compliance shall be reported to the NIRB as part of the annual report.

11. The Proponent shall adhere to conditions stated in attached Appendix B *Archaeological and Palaeontological Resources – Terms and Conditions for Land Use Permit Holders*

12. The Proponent shall avoid the known archaeological and/or palaeontological sites listed in Appendix C.

### **Validity of Land Claims Agreement**

#### Section 2.12.2

Where there is any inconsistency or conflict between any federal, territorial and local government laws, and the Agreement, the Agreement shall prevail to the extent of the inconsistency or conflict.

Dated \_\_\_\_April 3, 2007\_\_\_\_ at Sanikiluaq, NU.



\_\_\_\_\_  
Lucassie Arragutainaq, A/Chairperson

## **Appendix A**

### **Summary of Proponent Commitments**

1. The disturbances to permafrost will be mitigated by insulating the floors of buildings, and keeping the sump area and incinerator area small, raising the incinerator above the ground.
2. Disturbance to soil and vegetation will be minimized by using walkways. After more than 20 years of camp operation at the site, there is very little sign of disturbance.
3. The impact of helicopter and airplane noise and presence on wildlife and people will be mitigated by avoiding wildlife during flights and avoiding low flying. This will require ongoing communication and diligence.
4. The presence of wildlife will be carefully monitored to ensure minimal disturbance. Daily wildlife sitting records will be maintained and these will be used to plan work so that wildlife disturbance will be minimized. The information will also be provided to management boards and regulatory authorities.
5. Water quality will be protected from spills and drilling by use of protective procedures and containments.
6. Greywater will be treated through sumps and carefully monitored to ensure containment. No garbage will remain onsite.
7. The camp will be decommissioned when no longer used.
8. No fuel, drill cuttings, chemicals, wastes or sediment will be deposited into any water body as per the *Fisheries Act*, Section 36(3).
9. Sumps, including those created for the disposal of drill cuttings will be located above the high water mark of any water body in such a manner as to prevent the contents from entering any water body frequented by fish.
10. Drilling additives or mud will not be used in connection with holes drilled through lake ice unless they are re-circulated or contained such that they do not enter the water or demonstrated to be non-toxic.
11. Land based drilling will not occur within 30 m of the high water mark of any water body.
12. Materials will not be stored on the surface ice of lakes or streams. Materials on the ice surface must be for immediate use.
13. If an artesian flow is encountered, the drill hole will be immediately plugged and permanently sealed.
14. In terms of the winter road:
  - a. Travel will not begin until the ground is sufficiently frozen to provide support and to avoid surface damage and rutting.
  - b. Stream crossings shall be located to minimize approach grades. Bank disturbance will be avoided and mechanized clearing will not be done immediately adjacent to any watercourse
  - c. Winter lake/stream crossings will be constructed entirely of ice and snow materials; stream crossings will be removed or notched prior to spring break-up



## Appendix B



### BACKGROUND

#### Archaeology

*As stated in Article 33 of the Nunavut Land Claims Agreement:*

The archaeological record of the Inuit of Nunavut is a record of Inuit use and occupancy of lands and resources through time. The evidence associated with their use and occupancy represents a cultural, historical and ethnographic heritage of Inuit society and, as such, Government recognizes that Inuit have a special relationship with such evidence, which shall be expressed in terms of special rights and responsibilities. [33.2.1]

The archaeological record of Nunavut is of spiritual, cultural, religious and educational importance to Inuit. Accordingly, the identification, protection and conservation of archaeological sites and specimens and the interpretation of the archaeological record is of primary importance to Inuit and their involvement is both desirable and necessary. [33.2.2]

In recognition of the cultural, spiritual and religious importance of certain areas in Nunavut to Inuit, Inuit have special rights and interests in these areas as defined by Article 33 of the Nunavut Land Claims Agreement. [33.2.5]

#### Palaeontology

Under the Nunavut Act<sup>1</sup>, the federal government can make regulations for the protection, care and preservation of palaeontological sites and specimens in Nunavut. Under the *Nunavut Archaeological and Palaeontological Sites Regulations*<sup>2</sup>, it is illegal to alter or disturb any palaeontological site in Nunavut unless permission is first granted through the permitting process.

#### Definitions

As defined in the *Nunavut Archaeological and Palaeontological Sites Regulations*, the following definitions apply:

“archaeological site” means a place where an archaeological artifact is found.

<sup>1</sup> s. 51(1)

<sup>2</sup> P.C. 2001-1111 14 June, 2001

“archaeological artifact” means any tangible evidence of human activity that is more than 50 years old and in respect of which an unbroken chain of possession or regular pattern of usage cannot be demonstrated, and includes a Denesuline archaeological specimen referred to in section 40.4.9 of the Nunavut Land Claims Agreement.

“palaeontological site” means a site where a fossil is found.

“fossil” includes:

- (a) natural casts
- (b) preserved tracks, coprolites and plant remains; and
- (c) the preserved shells and exoskeletons of invertebrates and the eggs, teeth and bones of vertebrates.

## Terms and Conditions

- 1) The permittee shall not operate any vehicle over a known or suspected archaeological or palaeontological site.
- 2) The permittee shall not remove, disturb, or displace any archaeological artifact or site, or any fossil or palaeontological site.
- 3) The permittee shall immediately contact the Department of Culture, Language, Elders and Youth (867) 934-2046 or (867) 975-5500 or 1 (866) 934-2035 should an archaeological site or specimen, or a palaeontological site or fossil be encountered or disturbed by any land use activity.
- 4) The permittee shall immediately cease any activity that disturbs an archaeological or palaeontological site encountered during the course of a land use operation, until permitted to proceed with the authorization of the Department of Culture, Language, Elders and Youth, Government of Nunavut.
- 5) The permittee shall follow the direction of the Department of Culture, Language, Elders and Youth and DIAND in restoring disturbed archaeological or palaeontological sites to an acceptable condition.
- 6) The permittee shall provide all information requested by the Department of Culture, Language, Elders and Youth concerning all archaeological sites or artifacts and all palaeontological sites and fossils encountered in the course of any land use activity.
- 7) The permittee shall make best efforts to ensure that all persons working under authority of the permit are aware of these conditions concerning archaeological sites and artifacts, and palaeontological sites and fossils.
- 8) The permittee shall avoid the known archaeological and/or palaeontological sites listed in Attachment 1.

9) The permittee shall have an archaeologist or palaeontologist perform the following functions, as required by the Department of Culture, Language, Elders and Youth:

- a) survey
- b) inventory and documentation of the archaeological or palaeontological resources of the land use area
- c) assessment of potential for damage to archaeological or palaeontological sites
- d) mitigation
- e) marking boundaries of archaeological or palaeontological sites
- f) site restoration

The Department of Culture, Language, Elders and Youth shall authorize by way of a Nunavut Archaeologist Permit or a Nunavut Palaeontologist Permit, all procedures subsumed under the above operations.

**Appendix C**  
**Confidential Archaeological Sites**

## **Appendix D File History**

On November 29, 2006, the Nunavut Impact Review Board (NIRB) received a project proposal from AREVA for the Kiggavik-Sissons project proposal from the Kivalliq Inuit Association. On November 30, 2006 NIRB notified AREVA that an NPC conformity determination would be required for the project proposal, and also requested additional information from the Proponent. A positive conformity determination was received on December 15, 2006.

On February 1, 2007 NIRB received the requested information from the Proponent, and on February 5, 2007 commenced the Part 4 Screening. NIRB requested interested Parties provide comments to NIRB by February 26, 2007.

The project is located approximately 80km west of Baker Lake.

The project activities include:

- Satellite remote sensing
- Aircraft remote sensing to collect airborne geophysics data
- Soil sampling supported by helicopter
- Sediment sampling
- On-land drilling supported by helicopter
- Winter overland transportation of goods
- Construction of temporary wooden camp, and expansion of existing structures
- Fuel transportation and storage
- Chemical transportation and storage
- Core storage
- Environmental baseline work consisting of field surveys conducted on foot and supported by helicopter
- Ground geophysical surveys conducted on foot and supported by helicopter
- Geological mapping and prospecting conducted on foot and supported by helicopter
- Possible landing of aircraft with tundra tires on eskers
- Consumption of water and generation of waste

This application was distributed to Baker Lake and to interested Federal and Territorial Agencies.

On February 19, 2007 the Government of Nunavut – Department of Environment requested additional time to review the project information. Subsequently, NIRB granted all Parties until March 12, 2007 to provide comments to NIRB.

By March 12, 2007 NIRB received comments from the following interested Parties:

- Mr. Orin Durey of Baker Lake
- The Government of Nunavut Department of Environment
- The Government of Nunavut Department of Culture, Language, Elders and Youth
- The Beverly and Qamanirjuaq Caribou Management Board
- Environment Canada

Concerns regarding the project proposal were expressed by all interested Parties except for the Department of Culture, Language, Elders and Youth.

The main concerns related to:

- Project activities occurring in lands used by Beverly and Ahiak caribou herds for calving and post-calving
- Potential impacts to caribou from drilling, geophysical surveys, unavoidable low-level flights, and aircraft activity in general
- The necessity of a rigorous wildlife monitoring with particular emphasis on caribou
- Potential impacts to humans and wildlife, including grizzly bears, wolverines, wolves foxes, and raptor nesting areas from noise, human-carnivore interactions and general disruption
- Omissions regarding details about the winter road, including concerns related to use of winter trail prior to completion of the NIRB Part 4 Screening process
- Omissions in the Spill Contingency Plan
- Insufficient information contained within the Abandonment and Restoration Plan, such as details pertaining to the disposal of radioactive sediment, reclamation of the helicopter landing pad, testing for contaminated soils
- Potential for cumulative effects with other projects in the area
- Potential for impacts to air quality related to incineration of wastes
- Proximity of the project proposal to the Thelon Canadian Heritage River, and recognition of the Thelon Game Sanctuary Management Plan, the Thelon Wildlife Sanctuary, and the associated Special Management Areas
- Clarification regarding use of eskers to access project locations

One of the specific comments provided by GN-DOE was to limit the time period of the permit to one-year only (2007). This is to allow for additional review in the following year (2008) after completion of the 2007 GN/GNWT Population Surveys of the Beverly and Ahiak Caribou Herds related to herd population trends and the potential impact of exploration activities.

NIRB provided AREVA with the opportunity to respond to all the comments and concerns by March 20, 2007.

On March 20, 2007 NIRB received AREVA's response to Parties' comments, which included the following:

1. Revised NIRB Part 1 Screening Form in English and Inuktitut
2. Revised NIRB Part 2 Screening Form
3. Revised Spill Contingency Plan
4. Revised Abandonment and Restoration Plan
5. Noise Abatement Plan (new)
6. Waste Management Plan (new)
7. Wildlife Mitigation and Monitoring Plan (new)
8. Radiation Protection Plan (new)
9. Revised Figure 2: Project Location
10. Figure 11: Proposed Aerial Survey Blocks for Caribou Monitoring (new)
11. Figure 12: Winter Road Options for 2007 Exploration Program (new)