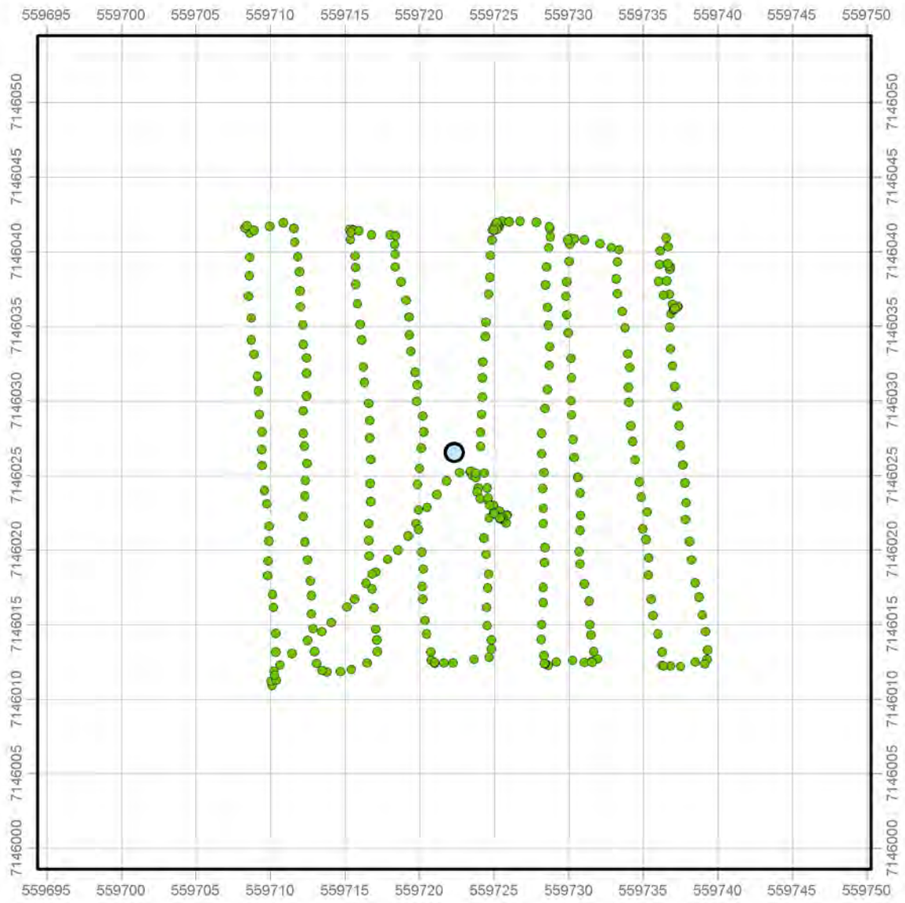
**Legend**

- Drill Hole

**Gamma Value**

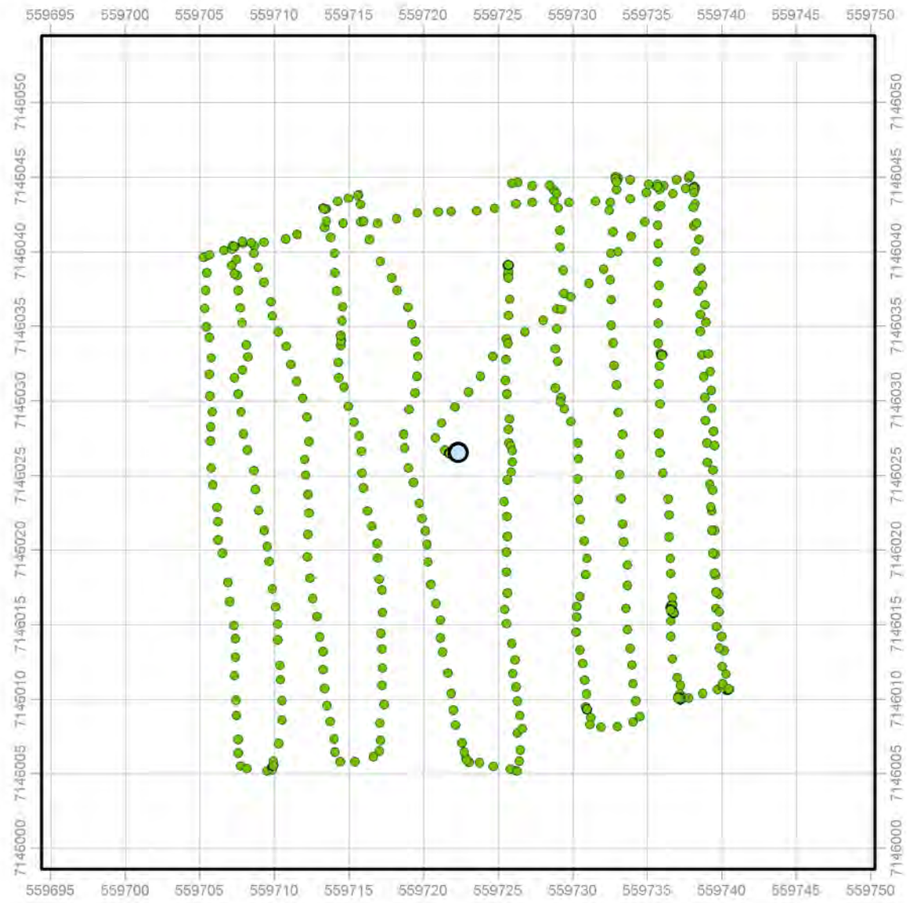
- 0.0 - 0.3 µSv
- 0.3 - 0.6 µSv
- 0.6 - 1.0 µSv
- 1.0 - 2.5 µSv
- > 2.5 µSv

N




**GG-026**
**Pre Gamma Survey**

**Min-Max: 0.040 - 0.077 µSv**




**GG-026**
**Post Gamma Survey**

**Min-Max: 0.037 - 0.078 µSv**

Projection: NAD 1983 UTM Zone 14N
Compiled: C. CARTER Drawn: C. CARTER
Date: 09/01/2012 Scale: 5m x 5m GRID
File: KI08F097
Data Sources: *AREVA Resources Canada Inc.*

**FIGURE 1.4-9**
PRE AND POST GAMMA SURVEY
DRILL HOLE GG-026

**KIGGAVIK PROJECT - 2012 ANNUAL REPORT**

***KIGGAVIK PROJECT***

AREVA

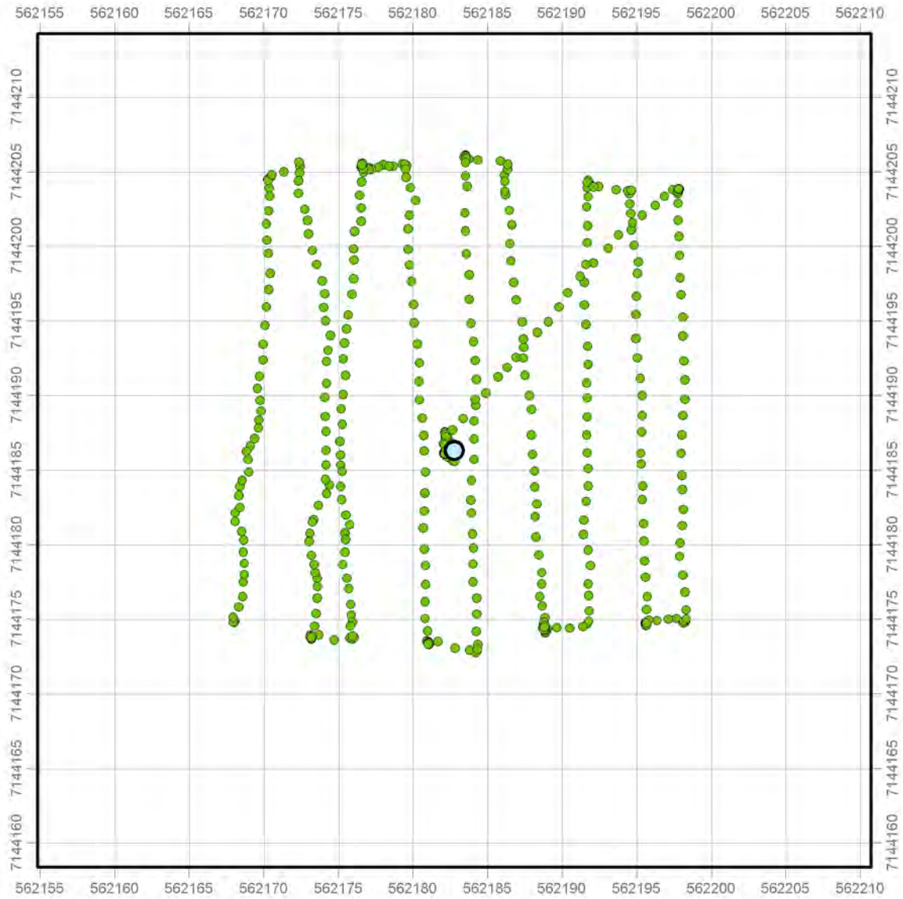
**Legend**

- Drill Hole

**Gamma Value**

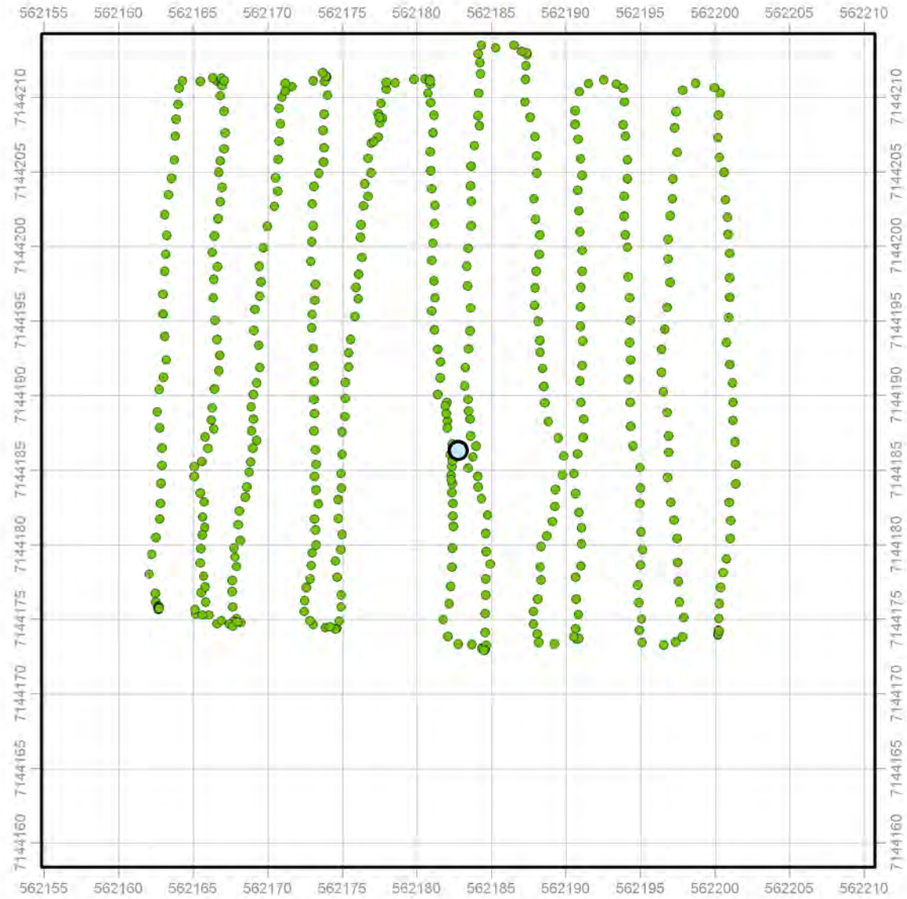
- 0.0 - 0.3 µSv
- 0.3 - 0.6 µSv
- 0.6 - 1.0 µSv
- 1.0 - 2.5 µSv
- > 2.5 µSv

N




**BONG-053/054**
**Pre Gamma Survey**

**Min-Max: 0.030 - 0.077 µSv**




**BONG-053/054**
**Post Gamma Survey**

**Min-Max: 0.040 - 0.086 µSv**

Projection: NAD 1983 UTM Zone 14N
Compiled: C. CARTER Drawn: C. CARTER
Date: 09/01/2012 Scale: 5m x 5m GRID
File: KI08F098
Data Sources: *AREVA Resources Canada Inc.*

**FIGURE 1.4-10**
PRE AND POST GAMMA SURVEY
DRILL HOLE BONG-053/054

**KIGGAVIK PROJECT - 2012 ANNUAL REPORT**

***KIGGAVIK PROJECT***

AREVA

AREVA Resources Canada Inc. - P.O. Box 9204 - 817 - 45th Street West - Saskatoon, SK - S7K 3X5

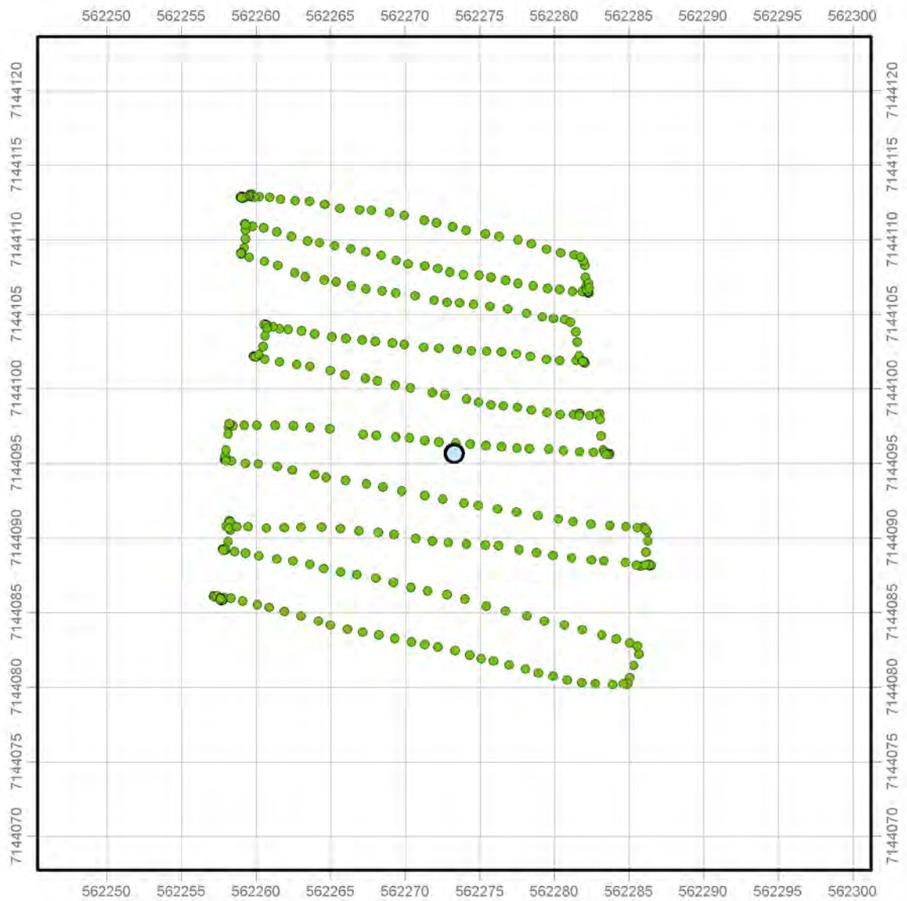
**Legend**

- Drill Hole

**Gamma Value**

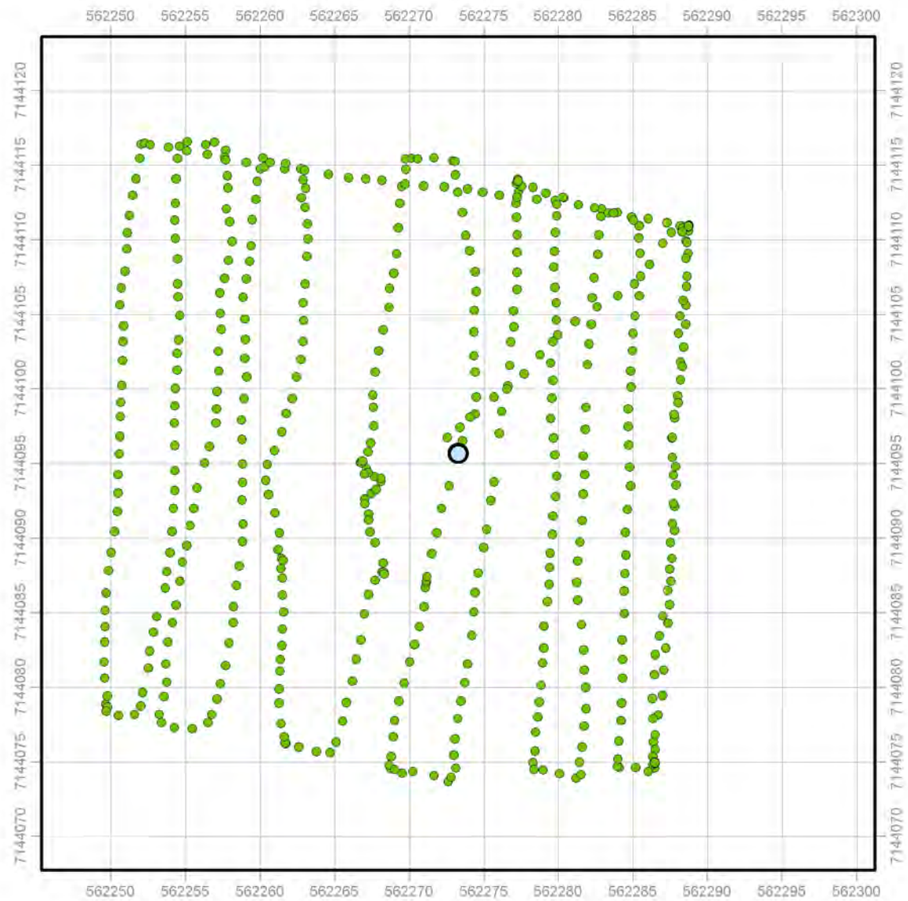
- 0.0 - 0.3 µSv
- 0.3 - 0.6 µSv
- 0.6 - 1.0 µSv
- 1.0 - 2.5 µSv
- > 2.5 µSv

N




**BONG-055**
**Pre Gamma Survey**

**Min-Max: 0.011 - 0.034 µSv**




**BONG-055**
**Post Gamma Survey**

**Min-Max: 0.046 - 0.085 µSv**

Projection: NAD 1983 UTM Zone 14N
Compiled: C. CARTER Drawn: C. CARTER
Date: 09/01/2012 Scale: 5m x 5m GRID
File: KI08F099
Data Sources: *AREVA Resources Canada Inc.*

**FIGURE 1.4-11**
PRE AND POST GAMMA SURVEY
DRILL HOLE BONG-055

**KIGGAVIK PROJECT - 2012 ANNUAL REPORT**

***KIGGAVIK PROJECT***

AREVA

AREVA Resources Canada Inc. - P.O. Box 9204 - 817 - 45th Street West - Saskatoon, SK - S7K 3X5

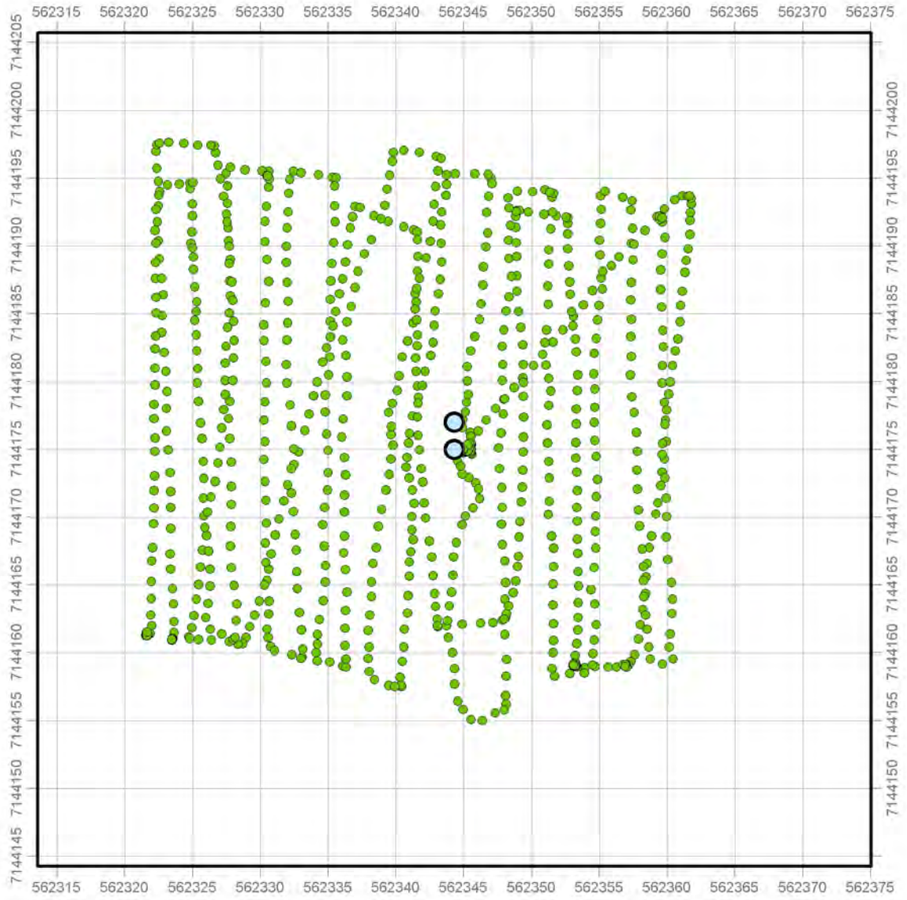
**Legend**

- Drill Hole

**Gamma Value**

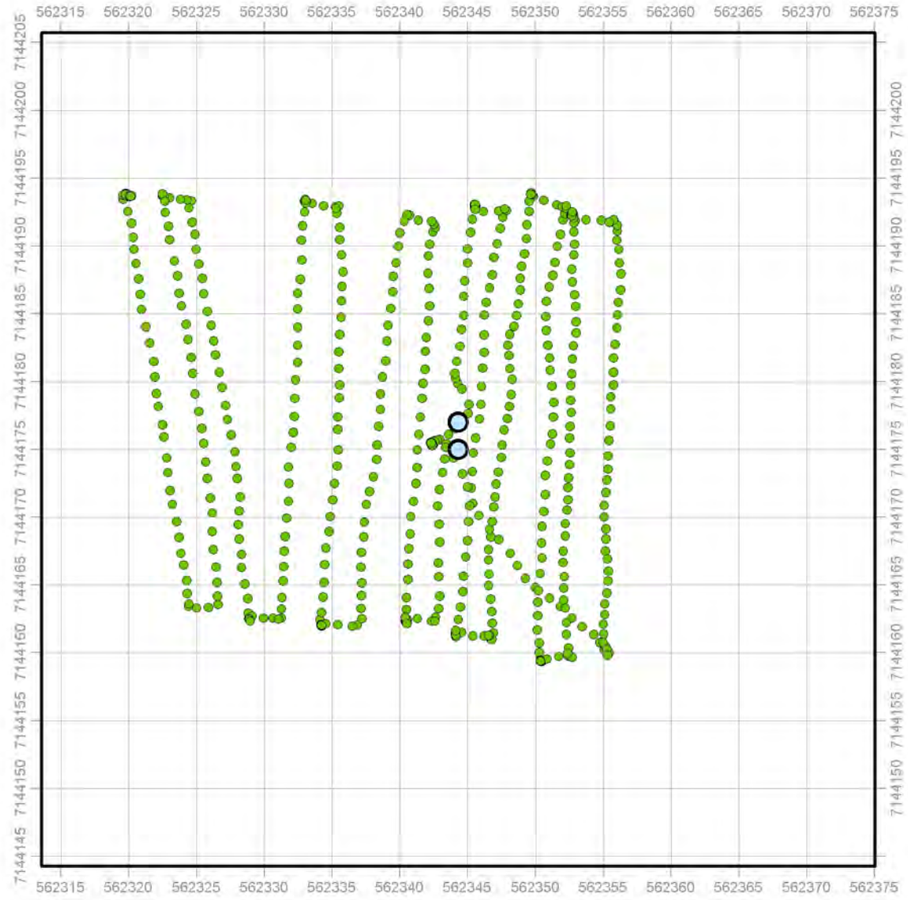
- 0.0 - 0.3 µSv
- 0.3 - 0.6 µSv
- 0.6 - 1.0 µSv
- 1.0 - 2.5 µSv
- > 2.5 µSv

N




**BONG-056/057/057A**
**Pre Gamma Survey**

**Min-Max: 0.007 - 0.091 µSv**




**BONG-056/057/057A**
**Post Gamma Survey**

**Min-Max: 0.053 - 0.093 µSv**

Projection: NAD 1983 UTM Zone 14N
Compiled: C. CARTER Drawn: C. CARTER
Date: 09/01/2012 Scale: 5m x 5m GRID
File: KI08F100
Data Sources: *AREVA Resources Canada Inc.*

**FIGURE 1.4-12**
PRE AND POST GAMMA SURVEY
DRILL HOLE BONG-056/057/057A

**KIGGAVIK PROJECT - 2012 ANNUAL REPORT**

***KIGGAVIK PROJECT***

AREVA

AREVA Resources Canada Inc. - P.O. Box 9204 - 817 - 45th Street West - Saskatoon, SK - S7K 3X5

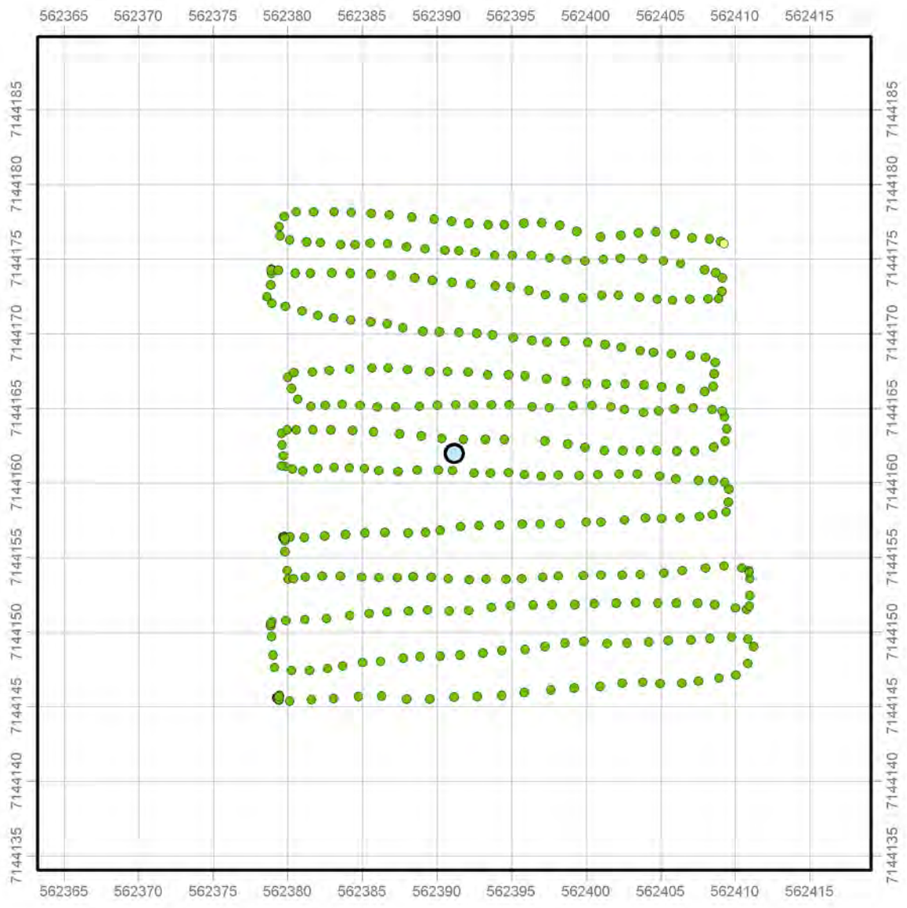
**Legend**

- Drill Hole

**Gamma Value**

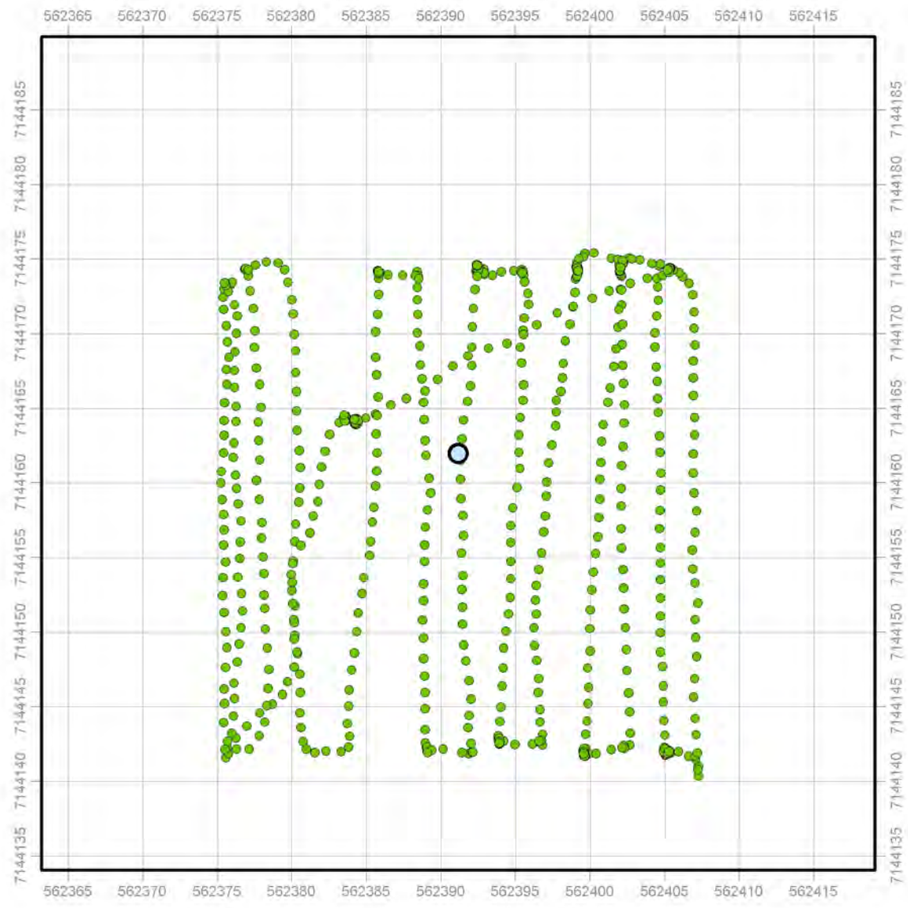
- 0.0 - 0.3 µSv
- 0.3 - 0.6 µSv
- 0.6 - 1.0 µSv
- 1.0 - 2.5 µSv
- > 2.5 µSv

N




**BONG-058**
**Pre Gamma Survey**

**Min-Max: 0.042 - 0.330 µSv**




**BONG-058**
**Post Gamma Survey**

**Min-Max: 0.049 - 0.108 µSv**

Projection: NAD 1983 UTM Zone 14N
Compiled: C. CARTER Drawn: C. CARTER
Date: 09/01/2012 Scale: 5m x 5m GRID
File: KI08F101
Data Sources: *AREVA Resources Canada Inc.*

**FIGURE 1.4-13**
PRE AND POST GAMMA SURVEY
DRILL HOLE BONG-058

**KIGGAVIK PROJECT - 2012 ANNUAL REPORT**

***KIGGAVIK PROJECT***

AREVA

AREVA Resources Canada Inc. - P.O. Box 9204 - 817 - 45th Street West - Saskatoon, SK - S7K 3X5

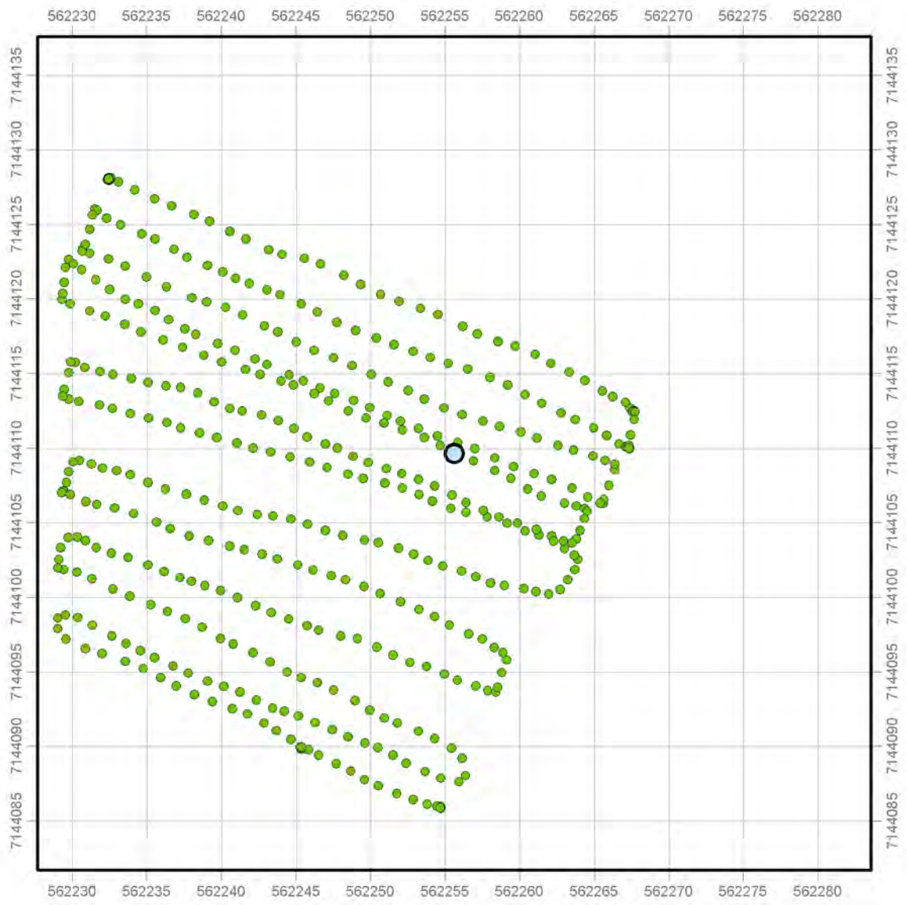
**Legend**

- Drill Hole

**Gamma Value**

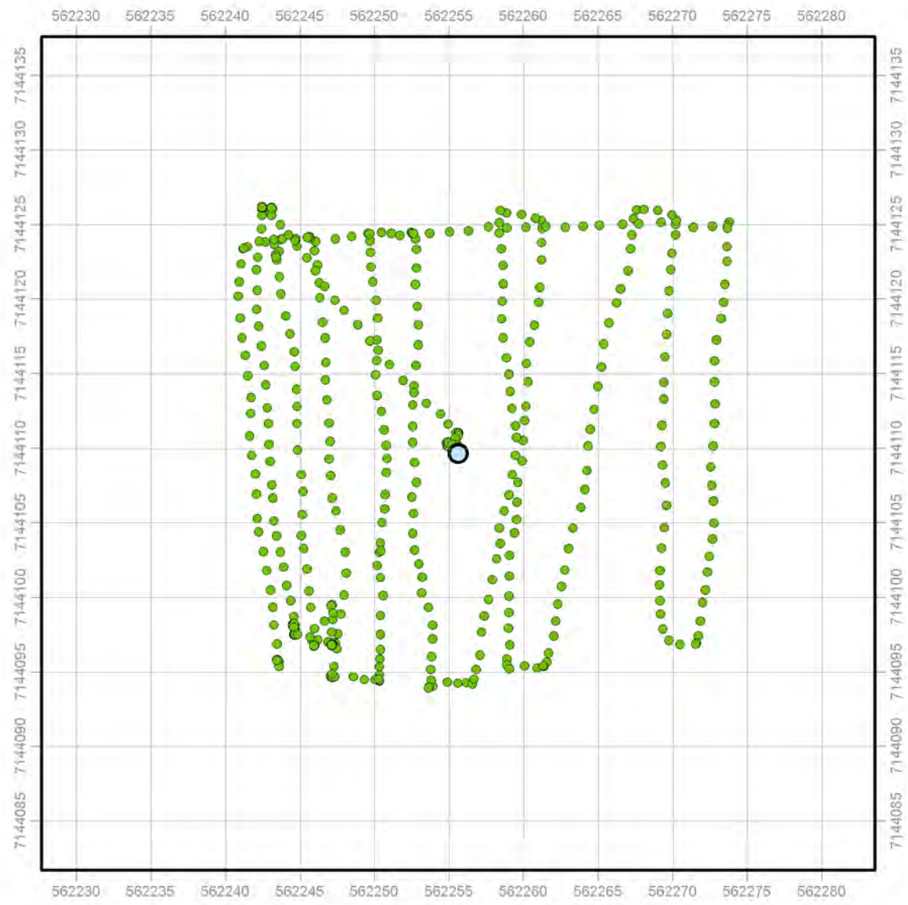
- 0.0 - 0.3 µSv
- 0.3 - 0.6 µSv
- 0.6 - 1.0 µSv
- 1.0 - 2.5 µSv
- > 2.5 µSv

N




**BONG-059**
**Pre Gamma Survey**

**Min-Max: 0.046 - 0.092 µSv**




**BONG-059**
**Post Gamma Survey**

**Min-Max: 0.050 - 0.086 µSv**

Projection: NAD 1983 UTM Zone 14N
Compiled: C. CARTER Drawn: C. CARTER
Date: 09/01/2012 Scale: 5m x 5m GRID
File: KI08F102
Data Sources: *AREVA Resources Canada Inc.*

**FIGURE 1.4-14**
PRE AND POST GAMMA SURVEY
DRILL HOLE BONG-059

**KIGGAVIK PROJECT - 2012 ANNUAL REPORT**

***KIGGAVIK PROJECT***

AREVA

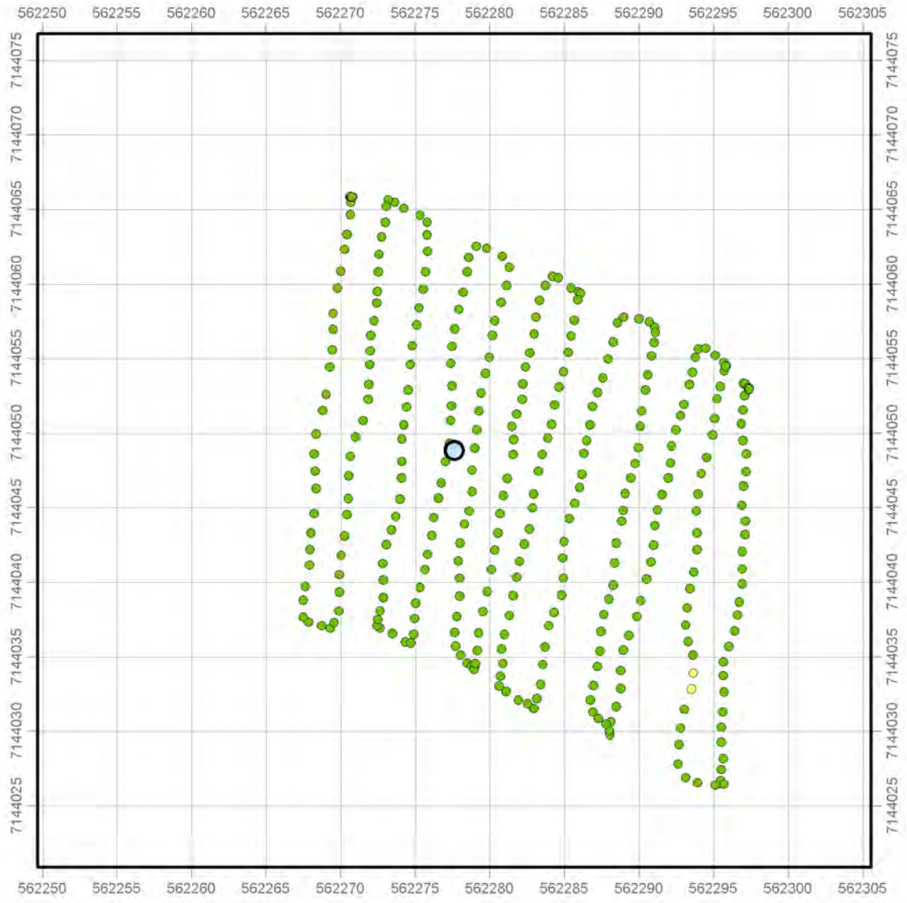
**Legend**

- Drill Hole

**Gamma Value**

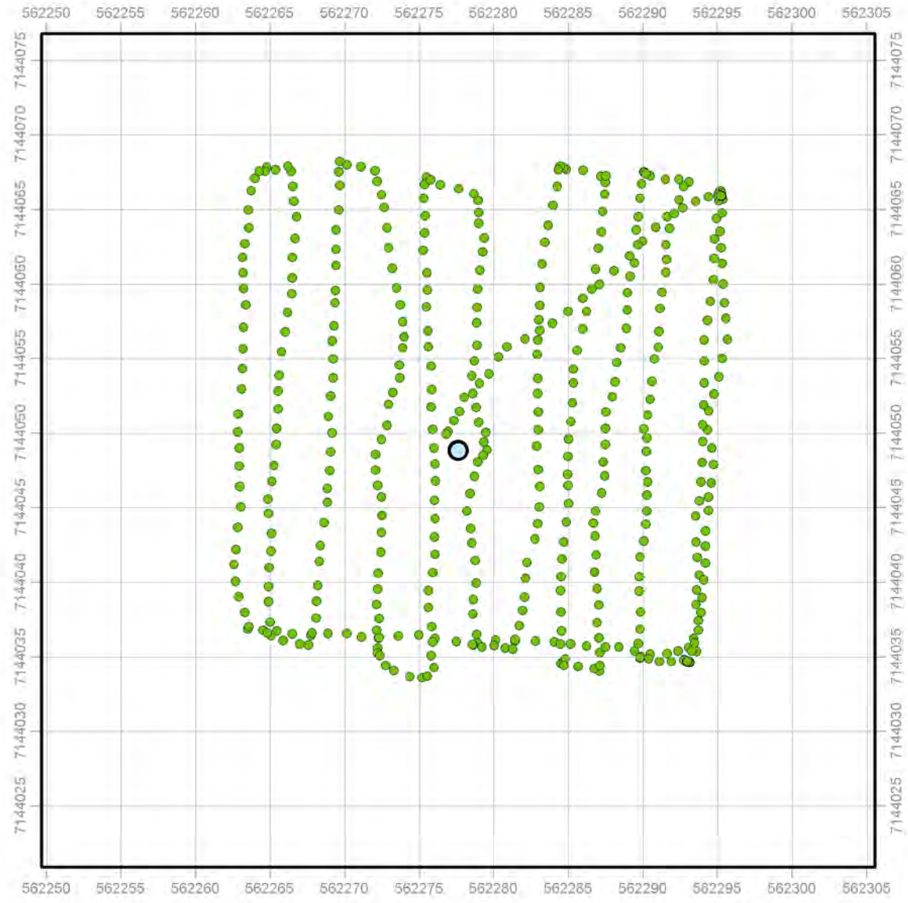
- 0.0 - 0.3 µSv
- 0.3 - 0.6 µSv
- 0.6 - 1.0 µSv
- 1.0 - 2.5 µSv
- > 2.5 µSv

N




**BONG-060**
**Pre Gamma Survey**

**Min-Max: 0.043 - 0.398 µSv**




**BONG-060**
**Post Gamma Survey**

**Min-Max: 0.043 - 0.273 µSv**

Projection: NAD 1983 UTM Zone 14N
Compiled: C. CARTER Drawn: C. CARTER
Date: 09/01/2012 Scale: 5m x 5m GRID
File: KI08F103
Data Sources: *AREVA Resources Canada Inc.*

**FIGURE 1.4-15**
PRE AND POST GAMMA SURVEY
DRILL HOLE BONG-060

**KIGGAVIK PROJECT - 2012 ANNUAL REPORT**

***KIGGAVIK PROJECT***

AREVA

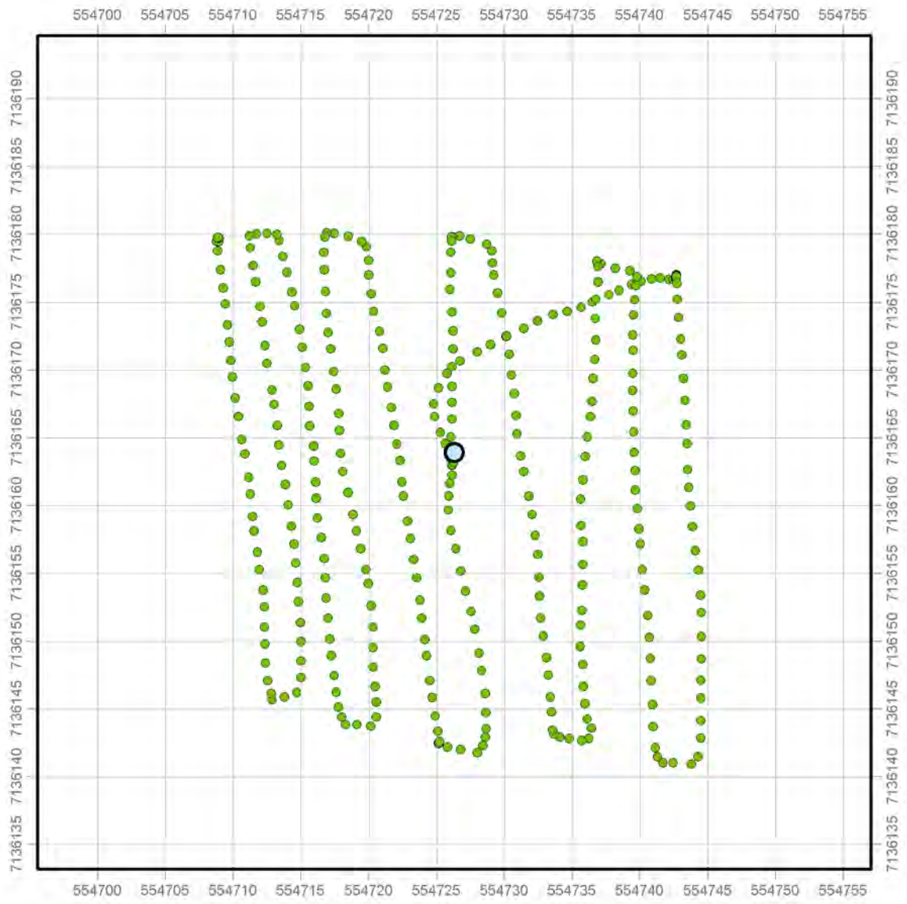
AREVA Resources Canada Inc. - P.O. Box 9204 - 817 - 45th Street West - Saskatoon, SK - S7K 3X5

**Legend**

- Drill Hole

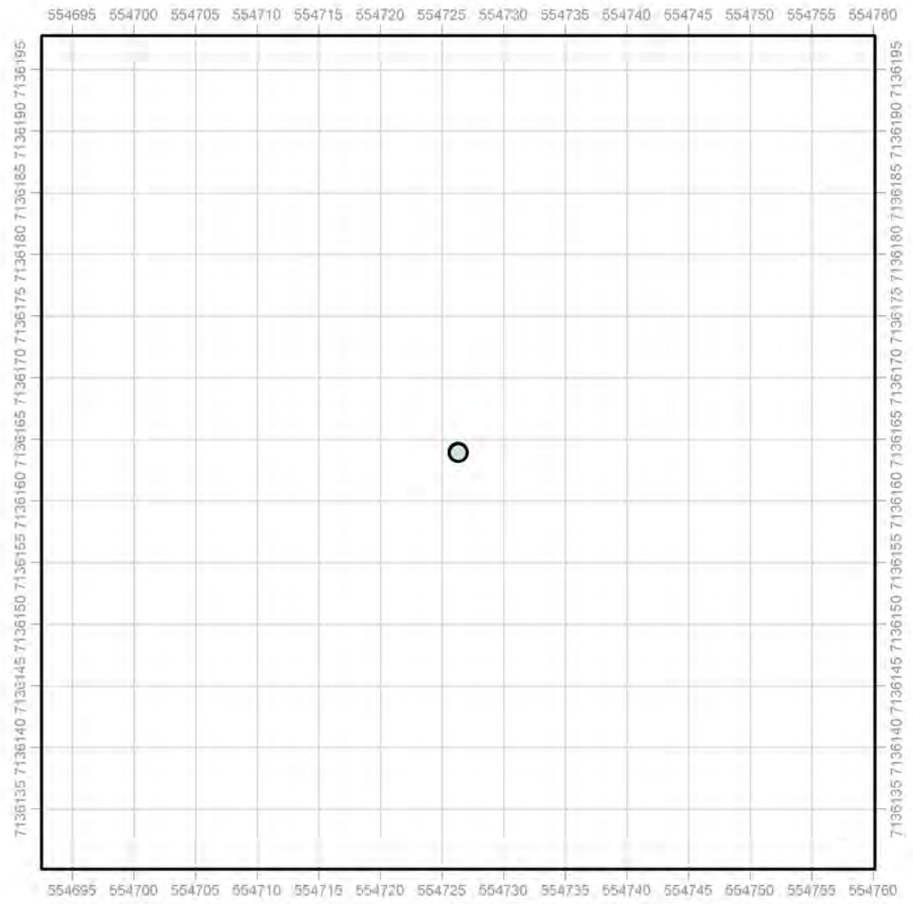
**Gamma Value**

- 0.0 - 0.3 µSv
- 0.3 - 0.6 µSv
- 0.6 - 1.0 µSv
- 1.0 - 2.5 µSv
- > 2.5 µSv




**END-12-03/04**
**Pre Gamma Survey**

**Min-Max: 0.047 - 0.127 µSv**




**END-12-03/04**
**Post Gamma Survey**

**Missing Data**
**To Be Completed 2013 Season**

N

Projection: NAD 1983 UTM Zone 14N
Compiled: C. CARTER Drawn: C. CARTER
Date: 09/01/2012 Scale: 5m x 5m GRID
File: KI08F104
Data Sources: *AREVA Resources Canada Inc.*

**FIGURE 1.4-16**
PRE AND POST GAMMA SURVEY
DRILL HOLE END-12-03/04

**KIGGAVIK PROJECT - 2012 ANNUAL REPORT**

***KIGGAVIK PROJECT***

AREVA

AREVA Resources Canada Inc. - P.O. Box 9204 - 817 - 45th Street West - Saskatoon, SK - S7K 3X5

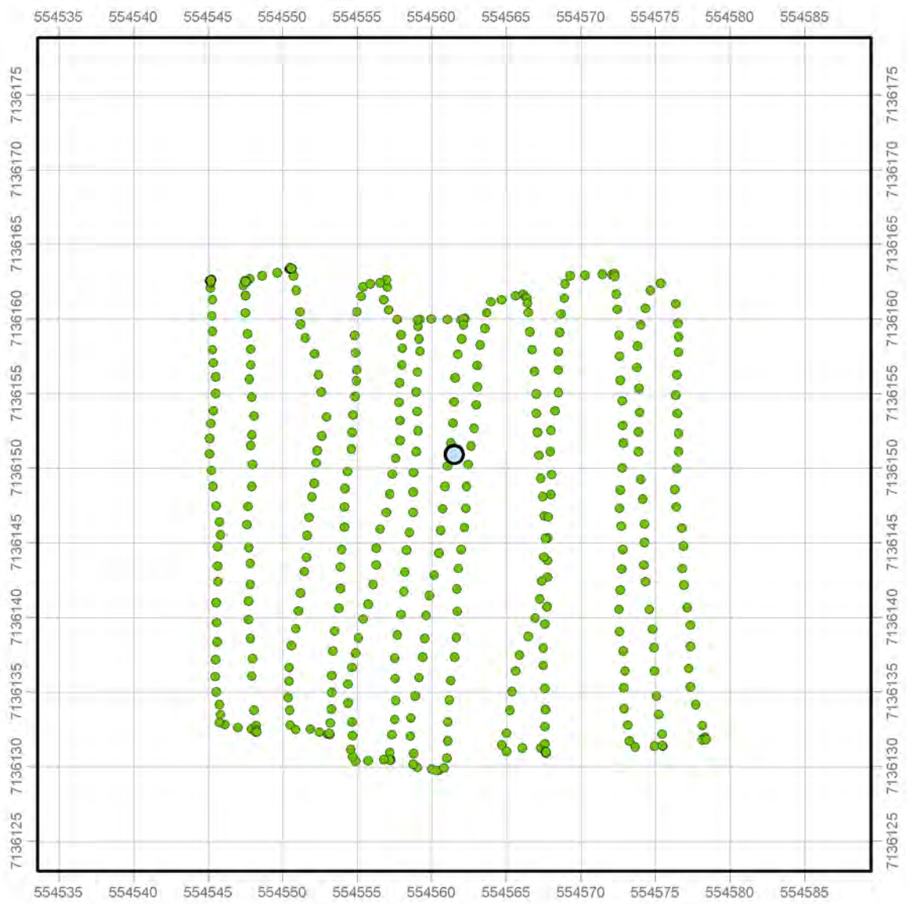
**Legend**

- Drill Hole

**Gamma Value**

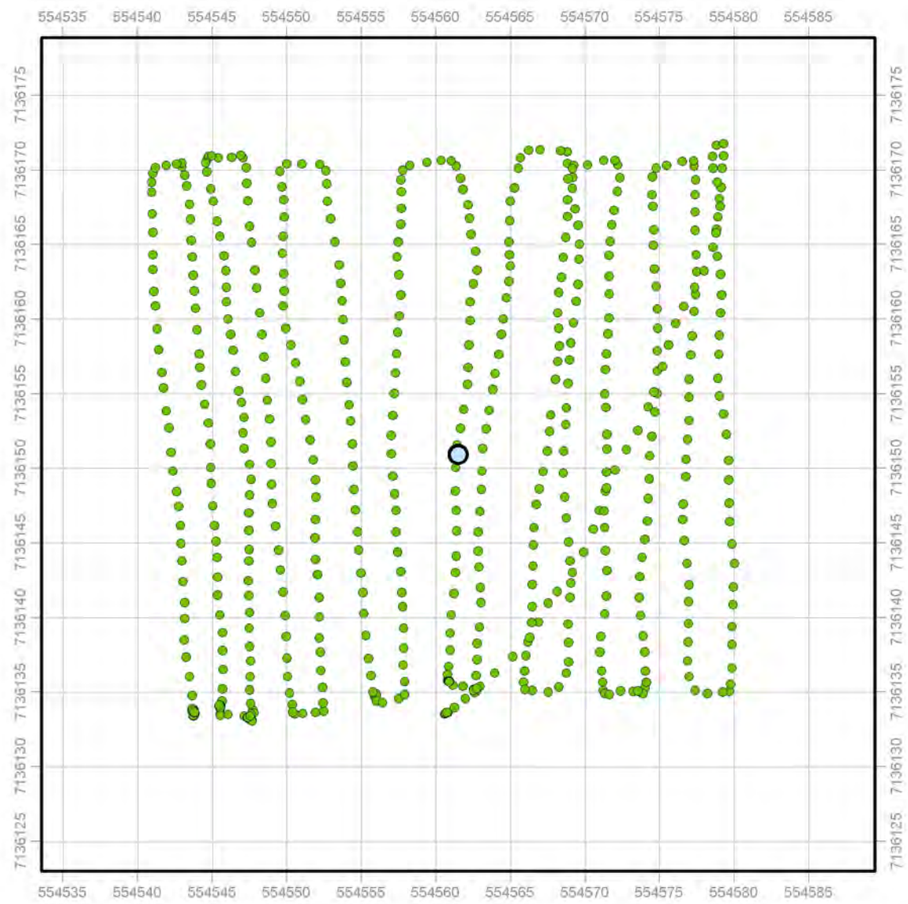
- 0.0 - 0.3 µSv
- 0.3 - 0.6 µSv
- 0.6 - 1.0 µSv
- 1.0 - 2.5 µSv
- > 2.5 µSv

N




**END-12-05**
**Pre Gamma Survey**

**Min-Max: 0.033 - 0.069 µSv**




**END-12-05**
**Post Gamma Survey**

**Min-Max: 0.031 - 0.067 µSv**

Projection: NAD 1983 UTM Zone 14N
Compiled: C. CARTER Drawn: C. CARTER
Date: 09/01/2012 Scale: 5m x 5m GRID
File: KI08F105
Data Sources: *AREVA Resources Canada Inc.*

**FIGURE 1.4-17**
PRE AND POST GAMMA SURVEY
DRILL HOLE END-12-05

**KIGGAVIK PROJECT - 2012 ANNUAL REPORT**

***KIGGAVIK PROJECT***

AREVA

AREVA Resources Canada Inc. - P.O. Box 9204 - 817 - 45th Street West - Saskatoon, SK - S7K 3X5

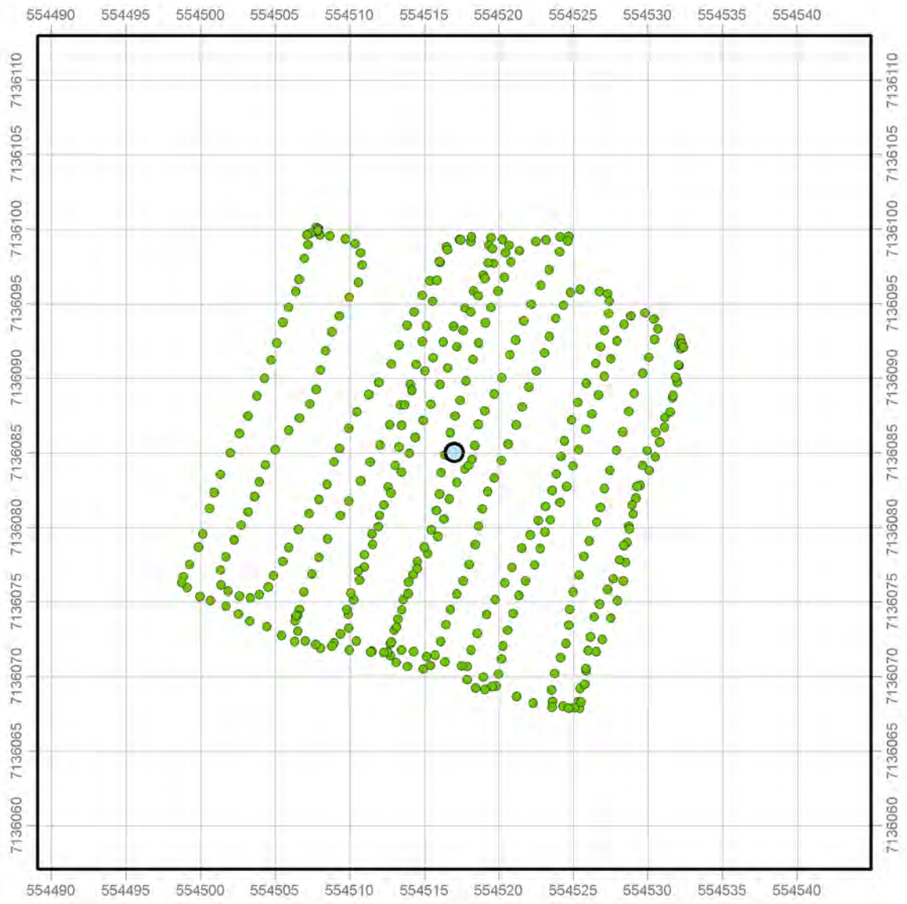
**Legend**

- Drill Hole

**Gamma Value**

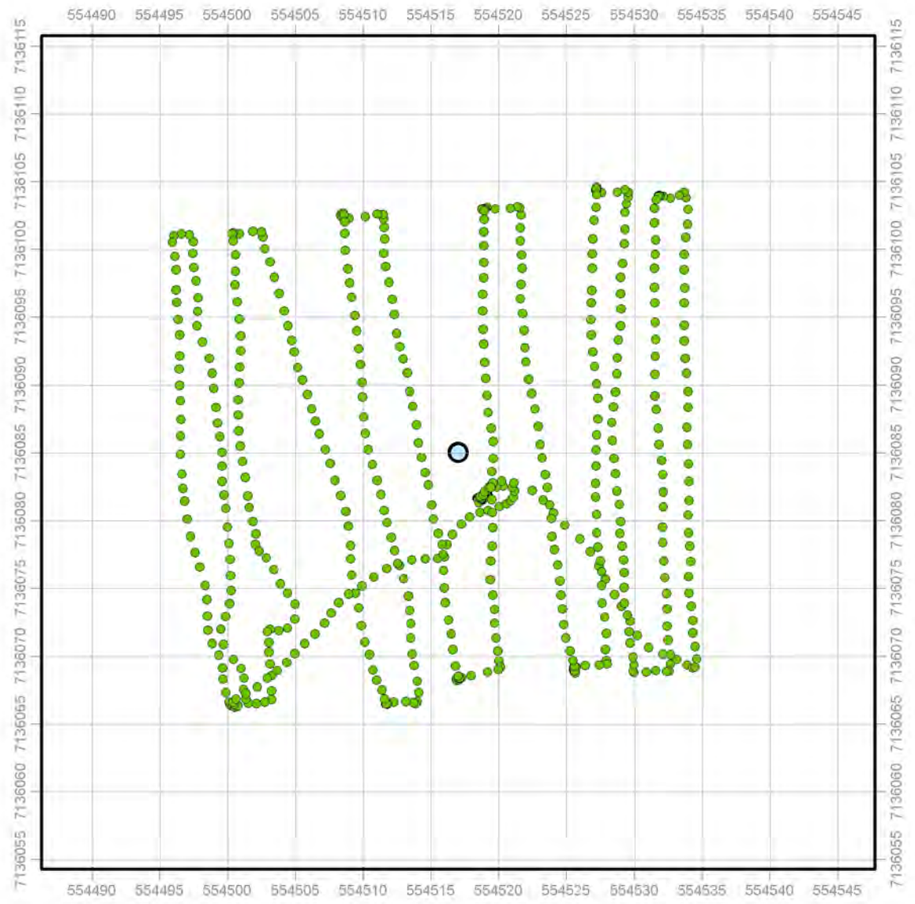
- 0.0 - 0.3 µSv
- 0.3 - 0.6 µSv
- 0.6 - 1.0 µSv
- 1.0 - 2.5 µSv
- > 2.5 µSv

N




**END-12-06**
**Pre Gamma Survey**

**Min-Max: 0.030 - 0.054 µSv**




**END-12-06**
**Post Gamma Survey**

**Min-Max: 0.030 - 0.064 µSv**

Projection: NAD 1983 UTM Zone 14N
Compiled: C. CARTER Drawn: C. CARTER
Date: 09/01/2012 Scale: 5m x 5m GRID
File: KI08F106
Data Sources: *AREVA Resources Canada Inc.*

**FIGURE 1.4-18**
PRE AND POST GAMMA SURVEY
DRILL HOLE END-12-06

**KIGGAVIK PROJECT - 2012 ANNUAL REPORT**

***KIGGAVIK PROJECT***

AREVA

AREVA Resources Canada Inc. - P.O. Box 9204 - 817 - 45th Street West - Saskatoon, SK - S7K 3X5

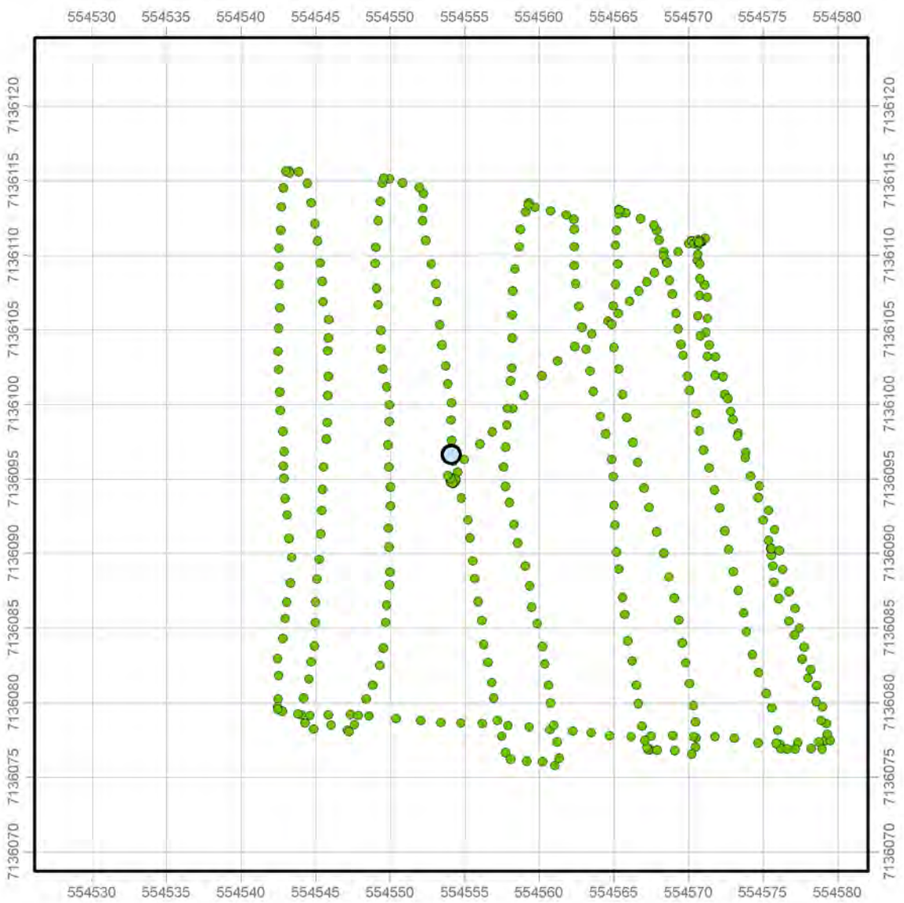
**Legend**

- Drill Hole

**Gamma Value**

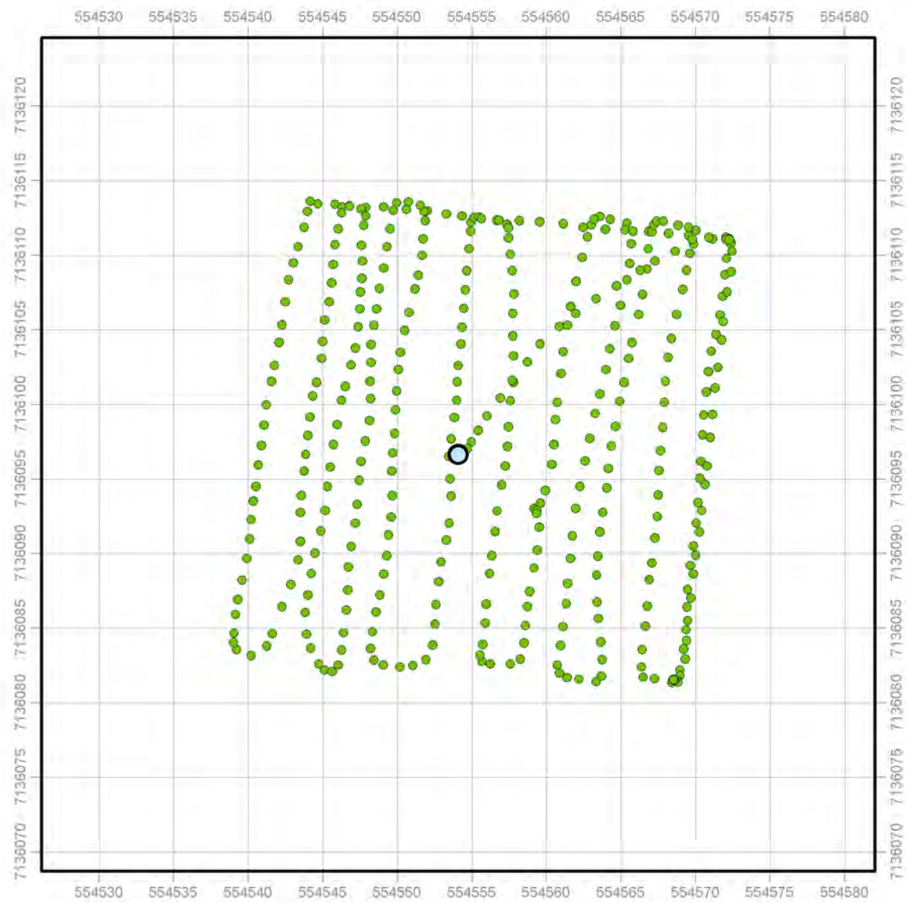
- 0.0 - 0.3 µSv
- 0.3 - 0.6 µSv
- 0.6 - 1.0 µSv
- 1.0 - 2.5 µSv
- > 2.5 µSv

N




**END-12-07**
**Pre Gamma Survey**

**Min-Max: 0.036 - 0.060 µSv**




**END-12-07**
**Post Gamma Survey**

**Min-Max: 0.037 - 0.072 µSv**

Projection: NAD 1983 UTM Zone 14N
Compiled: C. CARTER Drawn: C. CARTER
Date: 09/01/2012 Scale: 5m x 5m GRID
File: KI08F107
Data Sources: *AREVA Resources Canada Inc.*

**FIGURE 1.4-19**
PRE AND POST GAMMA SURVEY
DRILL HOLE END-12-07

**KIGGAVIK PROJECT - 2012 ANNUAL REPORT**

***KIGGAVIK PROJECT***

AREVA

AREVA Resources Canada Inc. - P.O. Box 9204 - 817 - 45th Street West - Saskatoon, SK - S7K 3X5

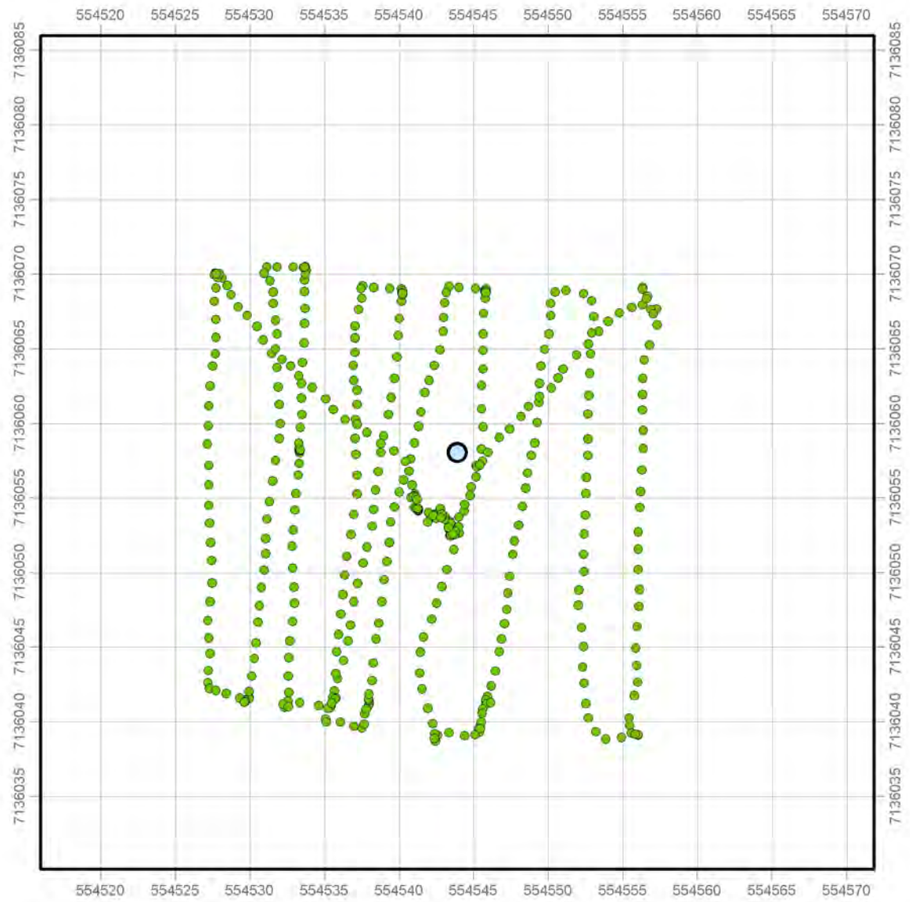
**Legend**

- Drill Hole

**Gamma Value**

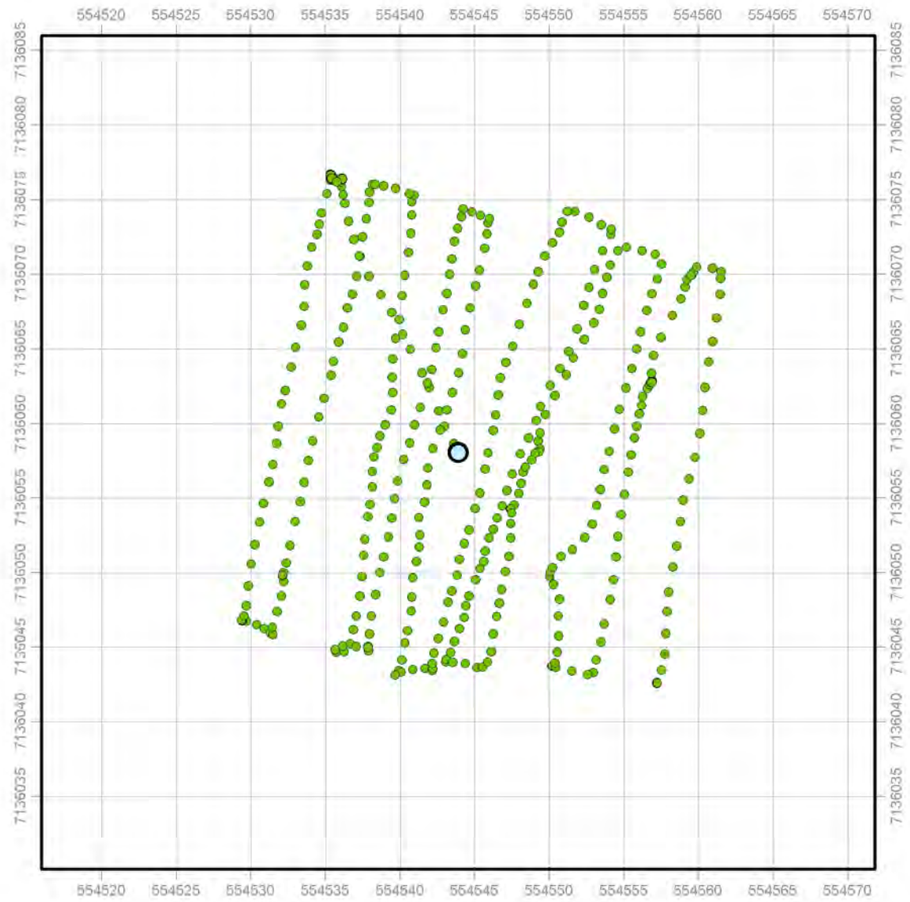
- 0.0 - 0.3 µSv
- 0.3 - 0.6 µSv
- 0.6 - 1.0 µSv
- 1.0 - 2.5 µSv
- > 2.5 µSv

N




**END-12-08**
**Pre Gamma Survey**

**Min-Max: 0.029 - 0.061 µSv**




**END-12-08**
**Post Gamma Survey**

**Min-Max: 0.029 - 0.059 µSv**

Projection: NAD 1983 UTM Zone 14N
Compiled: C. CARTER Drawn: C. CARTER
Date: 09/01/2012 Scale: 5m x 5m GRID
File: KI08F108
Data Sources: *AREVA Resources Canada Inc.*

**FIGURE 1.4-20**
PRE AND POST GAMMA SURVEY
DRILL HOLE END-12-08

**KIGGAVIK PROJECT - 2012 ANNUAL REPORT**

***KIGGAVIK PROJECT***

AREVA

AREVA Resources Canada Inc. - P.O. Box 9204 - 817 - 45th Street West - Saskatoon, SK - S7K 3X5

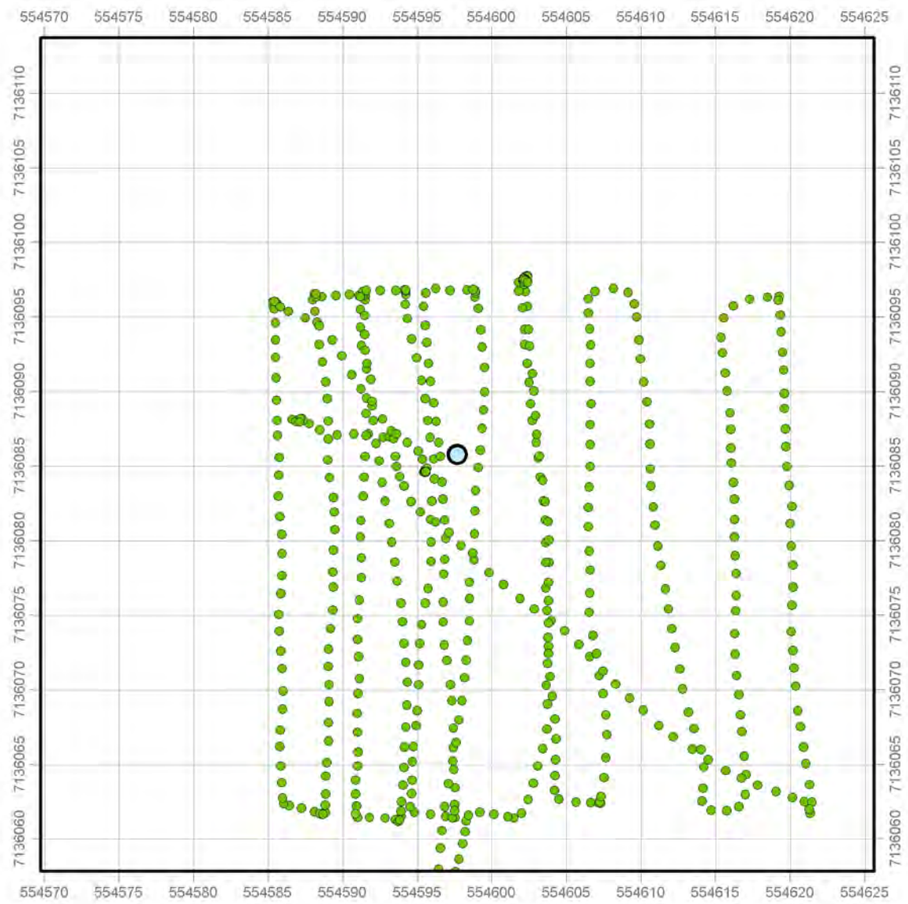
**Legend**

- Drill Hole

**Gamma Value**

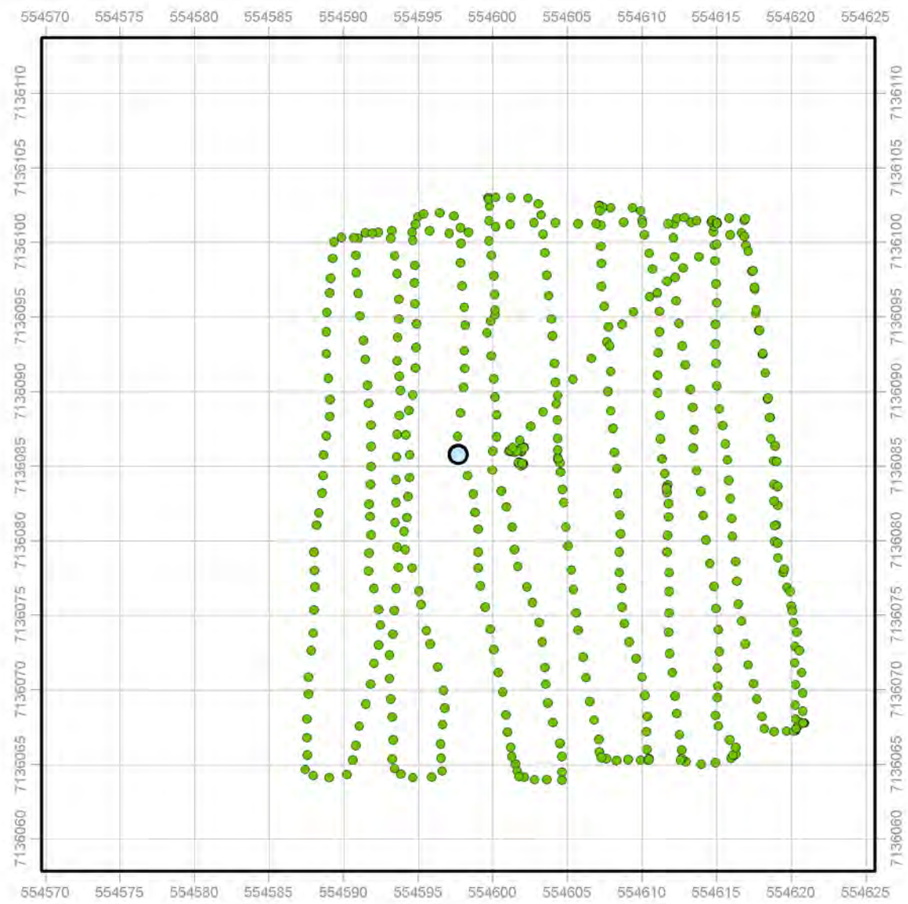
- 0.0 - 0.3 µSv
- 0.3 - 0.6 µSv
- 0.6 - 1.0 µSv
- 1.0 - 2.5 µSv
- > 2.5 µSv

N




**END-12-09**
**Pre Gamma Survey**

**Min-Max: 0.038 - 0.081 µSv**




**END-12-09**
**Post Gamma Survey**

**Min-Max: 0.035 - 0.073 µSv**

Projection: NAD 1983 UTM Zone 14N
Compiled: C. CARTER Drawn: C. CARTER
Date: 09/01/2012 Scale: 5m x 5m GRID
File: KI08F109
Data Sources: *AREVA Resources Canada Inc.*

**FIGURE 1.4-21**
PRE AND POST GAMMA SURVEY
DRILL HOLE END-12-09

**KIGGAVIK PROJECT - 2012 ANNUAL REPORT**

***KIGGAVIK PROJECT***

AREVA

AREVA Resources Canada Inc. - P.O. Box 9204 - 817 - 45th Street West - Saskatoon, SK - S7K 3X5

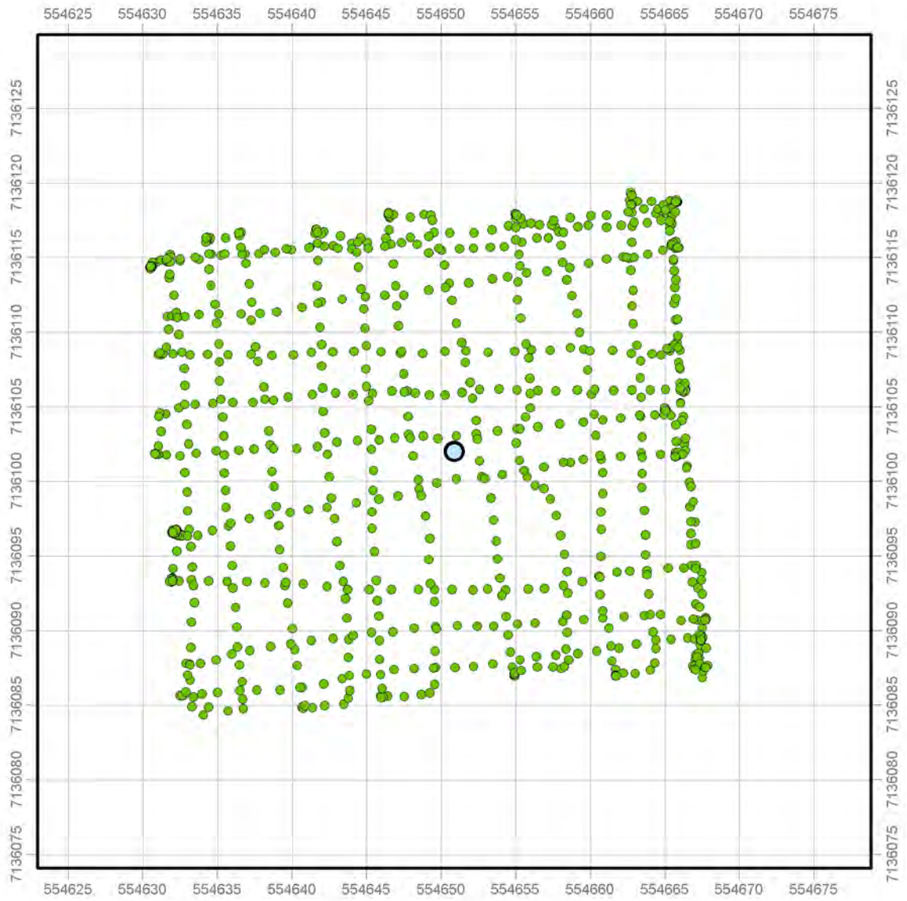
**Legend**

- Drill Hole

**Gamma Value**

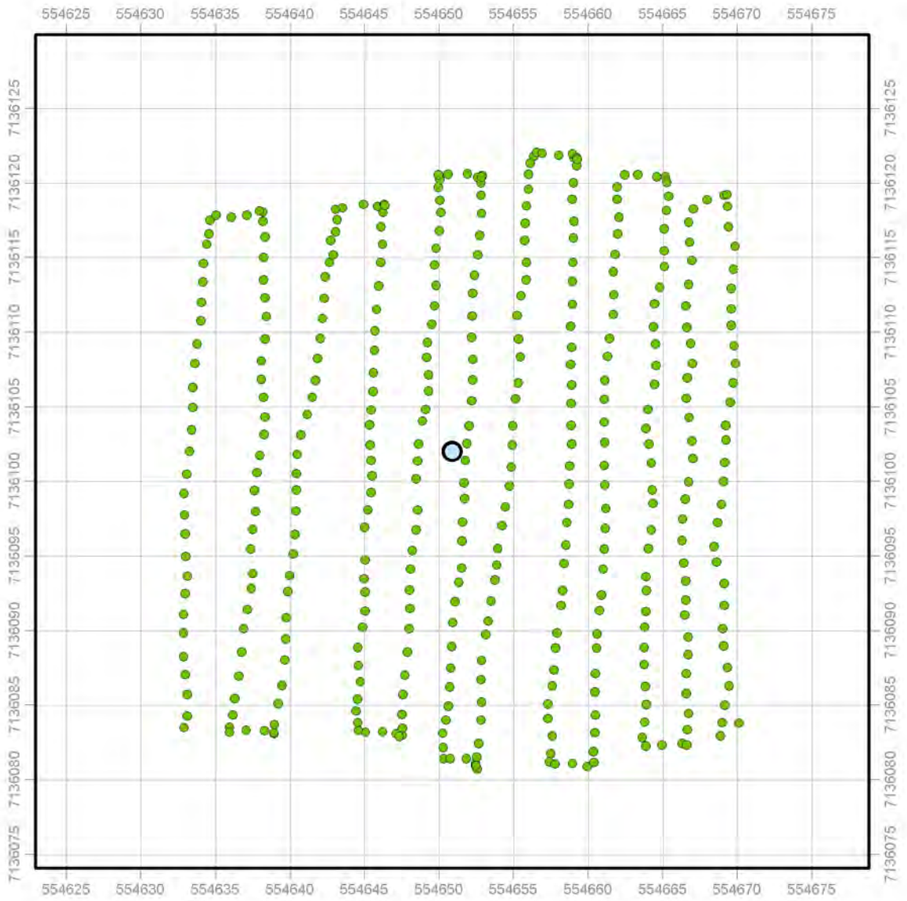
- 0.0 - 0.3 µSv
- 0.3 - 0.6 µSv
- 0.6 - 1.0 µSv
- 1.0 - 2.5 µSv
- > 2.5 µSv

N




**END-12-01/02/02A/02B**
**Pre Gamma Survey**

**Min-Max: 0.035 - 0.067 µSv**




**END-12-01/02/02A/02B**
**Post Gamma Survey**

**Min-Max: 0.043 - 0.099 µSv**

Projection: NAD 1983 UTM Zone 14N
Compiled: C. CARTER Drawn: C. CARTER
Date: 09/01/2012 Scale: 5m x 5m GRID
File: KI08F110
Data Sources: *AREVA Resources Canada Inc.*

**FIGURE 1.4-22**
PRE AND POST GAMMA SURVEY
DRILL HOLE END-12-01/02/02A/02B

**KIGGAVIK PROJECT - 2012 ANNUAL REPORT**

***KIGGAVIK PROJECT***

AREVA

## 1.4.5 Wildlife Mitigation and Monitoring Plan

The Wildlife Mitigation and Monitoring Plan (WMMP) was developed to monitor and reduce disturbance to wildlife, particularly caribou. The Plan incorporated recommendations from the Government of Nunavut – Department of Environment (GN-DoE), Environment Canada (EC) and the Beverly and Qamanirjuaq Caribou Management Board (BQCMB); as well as permit and lease conditions from the NIRB, Kivalliq Inuit Association (KIA), Aboriginal Affairs and Northern Development Canada (AANDC) and the Nunavut Water Board (NWB). The Plan is designed to protect wildlife from Project activities, increase the current understanding of wildlife interactions with human development and aid in determining the effectiveness of mitigation measures. Following the 2010 field season, the Plan underwent contractor, biologist, and AREVA review to further detail caribou mitigating actions and the responsibilities of the Independent Wildlife Monitor (Wildlife Monitor).

The WMMP was implemented during the 2012 field program to prevent or reduce any potential adverse effects from exploration activities on wildlife and was implemented by Wildlife Monitors from the Baker Lake community, as well as AREVA staff. Wildlife Monitors kept records of wildlife observations from survey stations located around the Kiggavik camp.

Wildlife observations and mitigation measures were summarized in monthly reports, and distributed to the Baker Lake Hunter and Trapper's Organization (HTO), the Baker Lake Conservation Officer, and the GN-DoE Regional Biologist. Wildlife monitoring occurred throughout the 2012 field program from June 11 to August 30, 2012. Eleven wildlife species were documented (Table 1.4-4), and no mitigation measures were required throughout the field season.

### *1.4.5.1 Summary of 2012 Monitoring Activities and Results*

During the field season, Kiggavik personnel conducting fieldwork observed mammals (caribou, weasel, arctic hare, arctic fox, and siksiks) and birds (ptarmigan, ducks, geese, cranes and sparrows). Muskox and wolves were occasionally observed near the Kiggavik site.

**Ground Based Wildlife Monitoring**

The AREVA staff and Wildlife Monitors provided detailed wildlife information throughout the field program. A wildlife monitoring record was utilized to ensure daily communication between the Wildlife Monitor and the Environment and Radiation Protection (ERP) Supervisor. In addition to

monitoring wildlife activity around camp, all operating drills were visited by the Wildlife Monitor. Wildlife Monitors accounted for 36 sightings, which equates to 46% of the total reported wildlife sightings.

### AREVA Staff and Contractor Wildlife Sightings

In addition to the Wildlife Monitor, Kiggavik personnel recorded wildlife observations through aerial observations from the helicopter, sightings around the Kiggavik camp, and the incidental sightings during field work. The ERP Supervisor and designate recorded all observations in a spreadsheet format for ease of monthly reporting. The observation details varied depending on the observer, survey protocols and recording method.

### Aerial Observation

Wildlife observed during routine helicopter flights were noted by passengers in booklets located in each helicopter. Helicopter sightings often occurred during routine flights to drill locations or Baker Lake. This method resulted in 15 sightings or 19% of the total throughout the season.

### All Other Sightings

AREVA employees and contractors were encouraged to record wildlife observations on the wildlife logs available in the camp kitchen and office. These sightings were separated between those witnessed within or near camp and those witnessed in the field (incidental). Incidental sightings accounted for 6 sightings or 8% of the total. Camp observations accounted for 21 sightings or 27% of the total wildlife sightings. Animals present regularly around camp such as the ptarmigan, siksik and hare were often not recorded each day they were observed, thus being under recorded by this method. A summary of the wildlife sightings is shown in Table 1.4-4.

**Table 1.4-4 Summary of Wildlife Sightings, Kiggavik 2012**

| Species (common name) | Sightings | | Total Number of Individuals | Range of Individuals per Sighting | Timeline of Sightings | | Observation Method | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Number | % of Total | | | Initial | Final | Incidental (Field) | Aerial | Monitor | Camp |
| **Mammals** | | | | | | | | | | |
| Arctic Fox | 10 | 13 | 21 | 1 - 8 | Jun-17 | Aug-06 | | X | X | X |
| Arctic Hare | 1 | 1 | 1 | 1 | Jun-26 | Jun-26 | | | | X |
| Caribou | 17 | 22 | 40 | 1 - 8 | Jun-13 | Aug-09 | X | X | X | X |
| Muskox | 33 | 42 | 475 | 1 - 51 | Jun-11 | Aug-24 | X | X | X | X |
| SikSik (Ground Squirrel) | 1 | 1 | 1 | 1 | Aug-07 | Aug-07 | | | X | |
| Weasel | 1 | 1 | 1 | 1 | Jun-19 | Jun-19 | | | X | |
| Wolf | 5 | 6 | 6 | 1 - 2 | Jun-18 | Jul-28 | X | | X | X |
| **Birds** | | | | | | | | | | |
| Canada Goose | 3 | 4 | 34 | 2 - 27 | Jun-16 | Jun-23 | | | X | X |
| Pintail Ducks | 1 | 1 | 2 | 2 | Jun-16 | Jun-16 | | | | X |
| Sandhill Crane | 5 | 6 | 4 | 1 | Jun-15 | Aug-10 | | | X | |
| Sparrow | 1 | 1 | 1 | 1 | Jun-14 | Jun-14 | | | X | |
| **Total** | 78 | | 586 | | | | | | | |

### *1.4.5.2 Summary of 2012 Wildlife Mitigation*

Mitigation measures outlined within the WMMP were not required during the 2012 field season. Caribou did not approach within 2 km of drilling activities necessitating suspension of activity. Locations of groups larger than 50 individuals (none observed in 2012) and smaller groups known to have calves were communicated to AREVA staff and contractors to assist in avoidance.

No disturbances to wildlife were noted during the 2012 field season. Helicopter pilots received training on the flight restrictions that are described in the WMMP and the avoidance of flights over herds of caribou whenever possible.

### 1.4.6 Noise Abatement Plan

A Noise Abatement Plan was developed to mitigate the effects from noise generated during camp set-up, camp operation, winter road use, and drilling activities. Noise controls and abatement serve a combination of environmental and occupational health and safety purposes. The focus of the Plan is the control of environmental noise for the protection of wildlife.

Implementation of the Plan ensures that drill rigs and vehicles are equipped with mufflers and/or silencers and is subject to commitments made in the Wildlife Mitigation and Monitoring Plan regarding minimum flying altitudes required and the take-off and landing of aircraft.

The Plan is reviewed by all site staff, contractors, and head office contract administrators to ensure all contractors operating drill rigs, vehicles or aircraft are aware of the Noise Abatement Plan requirements.

Frequent review allows for revision to occur with the expansion of infrastructure, changing field programs and the identification of improved practices.

### 1.4.7 Environmental Baseline work

One high volume air sampler, which monitors metals and radionuclides, was in operation throughout the field season to gather additional information to that which was listed in the Draft Environmental Impact Statement (DEIS).

## 1.5 OCCUPATIONAL HEALTH AND SAFETY PROGRAM

AREVA is committed to taking every reasonable precaution toward ensuring the safety and health of all employees and contractors from any potential harmful effects of uranium exploration activities. This commitment is reflected in AREVA's Health and Safety Policy and is supported through a comprehensive Health and Safety Program for the Kiggavik Project.

The Health and Safety Program was implemented to ensure work activities were performed in a safe and responsible manner, and was conducted in accordance with the Nunavut Mine Health and Safety Regulations, exploration best practices and AREVA safety requirements. AREVA completed the field season in accordance with its OHSAS 18001:2007 certification for the Kiggavik Project's Health and Safety Management System which was originally achieved in 2011. The OHSAS 18001 standard provides the minimum requirements for a comprehensive Health and Safety Management System which allows an organization to proactively minimize occupational health and safety risks and to continually improve its health and safety performance. An external third party, SGS, conducted the OHSAS 18001:2007 surveillance audit for the Kiggavik Project's Health and Safety Management System during the 2012 field season. The OHSAS 18001:2007 surveillance audit concluded that the health and safety program continues to meet requirements.

Throughout 2012 field program, the Health and Safety Program and Management System were implemented by AREVA staff. The Project Geologist was responsible for overseeing the program with the assistance of the ERP Supervisor or designate for managing routine safety activities. To ensure worker safety and protection of the environment, all employees and contractors of the Kiggavik site received orientation and appropriate safety training prior to commencing work. Employees and contractors were also required to participate in weekly safety meetings (Safety Huddles) to discuss and reinforce safety issues and act as the Occupational Health Committee (OHC). The meeting minutes and list of members were forwarded to the Mines Inspector, NU.

There were no lost time accidents in 2012 involving AREVA or contractor personnel. There was one first aid involving a contractor, and one medical aid involving an AREVA employee. The medical aid was due to a slipped disc in the worker's back. A medical aid is classified as an injury requiring a visit to the Baker Lake clinic or personal doctor.

## 1.6 RADIATION PROTECTION

The Radiation Protection program was implemented to ensure work activities were performed in a safe and responsible manner and that workers were not adversely exposed to radiation from drilling activities. The results of the 2012 monitoring program indicate that the field activities, conducted as part of the Kiggavik Project, did not pose a significant health risk to people working with the Project or living in nearby communities.

The Radiation Protection program was conducted using:

- Gamma dosimetry which included optically stimulated luminescent dosimeters (OLDs) and direct reading dosimeters (DRDs) for personal dosimetry
- Automess survey instrument for gamma radiation monitoring
- Ludlum model 2221 with Trimble Pro-Xrt for pre and post gamma surveys
- Ludlum model 12 survey instrument and swipes for contamination monitoring
- Alpha monitors for radon progeny and long lived radioactive dust (LLRD) monitoring

### 1.6.1 Radiation Protection Plan

The Radiation Protection Plan for the Kiggavik Project is designed to meet the requirements of the applicable Nunavut Occupational Health and Safety Regulations, exploration best management practices, and AREVA's Corporate Integrated Management System (IMS). Although current activities are not regulated by the CNSC, the Radiation Protection Plan is designed in accordance with the CNSC Regulations.

The Plan is implemented by the development and implementation of a routine monitoring schedule carried out by AREVA personnel. This includes dosimetry monitoring to determine worker exposure, proper management of radioisotopes, proper shipping and receiving of radioactive material, the proper storage and collection of radioactive materials and the development of a corporate and site specific emergency response plan.

#### *1.6.1.1 Administrative Elements*

The administrative elements are as follows:

- Program documentation
- Training
- Designation of Occupational Workers
- Dose limits and dose levels

- Obligations of Occupational Workers
- Pregnant workers

**Program Documentation**

The Radiation Protection Program for the Kiggavik Project is supported through a comprehensive series of work instructions for worker dosimetry, radiological monitoring, contamination control and the safe handling of radioactive materials.

**Training**

All AREVA employees and contractors receive appropriate radiation protection training prior to beginning work at the Project site to ensure worker safety and protection of the environment.

Personnel involved with the shipment of radioactive materials received the required training in Transportation of Dangerous Goods (TDG) Class 7 Radioactive Material.

### *1.6.1.2 Program Elements*

The program elements are as follows:

- Exposure As Low as Reasonably Achievable (ALARA)
- Radiological monitoring
- Dosimetry monitoring
- Action and Administrative Levels
- Management of radioactive materials
- Shipping of radioactive materials
- Site abandonment and restoration
- Emergency response

**Radiological Monitoring Program**

As part of the Radiation Protection Program, workplace radiological monitoring is performed for gamma radiation, radon progeny (RnP) and long-lived radioactive dusts (LLRD) to detect potentially abnormal radiological conditions, estimate worker doses, and document radiological conditions. The gamma radiation exposures are expressed in millisieverts (mSv), and ranged from 0.01 – 0.03 mSv with an average exposure of 0.013 mSv during the 2012 season.

Continuous radiological monitoring was conducted for LLRD and RnP in the core shacks. The LLRD concentrations ranged from 0 – 0.0054 Bq/$m^3$ with an average concentration of 0.0014 Bq/$m^3$. Radon progeny measurements are expressed in units of Working Level (WL), a measure of the airborne potential alpha energy concentration. Indoor radon progeny levels ranged from 0 - 0.001 WL with an average radon progeny measurement of 0.00007 WL. The appropriate personal protective equipment and ventilation methods were used throughout the season. A summary of the radiological monitoring results is provided in Table 1.6-1.

**Table 1.6-1 Radiological Monitoring Results**

| Radiation Type | Average | Maximum |
|---|---|---|
| Gamma (mSv) | 0.013 | 0.03 |
| Radon Progeny (WL*) | 0.00007 | 0.001 |
| Long-Lived Radioactive Dust (Bq/$m^3$*) | 0.0014 | 0.0054 |

*Working Levels

**Becquerels per cubic meter

Contamination control measures are implemented to minimize the spread of radioactive materials into unintended locations. Contamination monitoring using a pancake probe and swipes was performed at the core shacks when gamma dose rates exceeded 10 μSv/h. If removable contamination levels exceed 5.0 Bq/cm² for beta/gamma over 300 cm² the affected surface or equipment must be cleaned. Contamination levels did not exceed 5.0 Bq/cm² during the 2012 field season.

**Dosimetry Monitoring Program**

Dosimetry monitoring is conducted to document and determine worker exposures to radiological components which include gamma radiation, RnP, and LLRD. No dosimetry action levels were exceeded during the 2012 program. The worker radiation doses observed were well below regulatory dose limits for members of the public (1 mSv/a) and occupational workers (20 mSv/a).

*Gamma Exposures*

The largest component of radiation exposure during uranium exploration activities is expected to come from gamma radiation emitted from mineralized core, rock and drill cuttings.

Worker exposures to external gamma radiation were measured using optically stimulated luminescent dosimeters (OLDs) provided by the licensed dosimetry provider, Landauer Inc. For

exposure control, workers handling and logging radioactive drill core and rock samples were also issued direct reading dosimeters (DRDs). Action and Administrative Levels are set for gamma radiation dose rates which are measured using the automess survey instrument. Action levels were never exceeded during the 2012 field season. During the 2012 program, worker gamma radiation exposures ranged from 0.01 mSv to 0.03 mSv with an average exposure of 0.013 mSv.

*Radon Progeny and Long-Lived Radioactive Dust Exposures*

Worker exposures to radon progeny (RnP) and long-lived radioactive dust (LLRD) are estimated from industry-accepted area monitoring techniques and occupancy time information. During the 2012 program, worker exposures from RnP and LLRD ranged from 0.00022 mSv to 0.002 mSv with an average exposure of 0.00103 mSv.

**Total Effective Exposure**

The maximum annual dose permitted for an occupational worker is 50 mSv in a given year or an average of 20 mSv/a over 5 years. The maximum annual dose for a member of the public is 1 mSv/a. Total effective exposure for Kiggavik personnel was calculated for each individual based on OLD results, RnP and LLRD radiological monitoring results and time occupancy information. The maximum dose received by an individual working at Kiggavik in 2012 was 0.031 mSv, and the average dose was 0.024 mSv. Therefore, the Kiggavik personnel exposures were below the regulatory limit for members of the public (Figure 1.6-1).

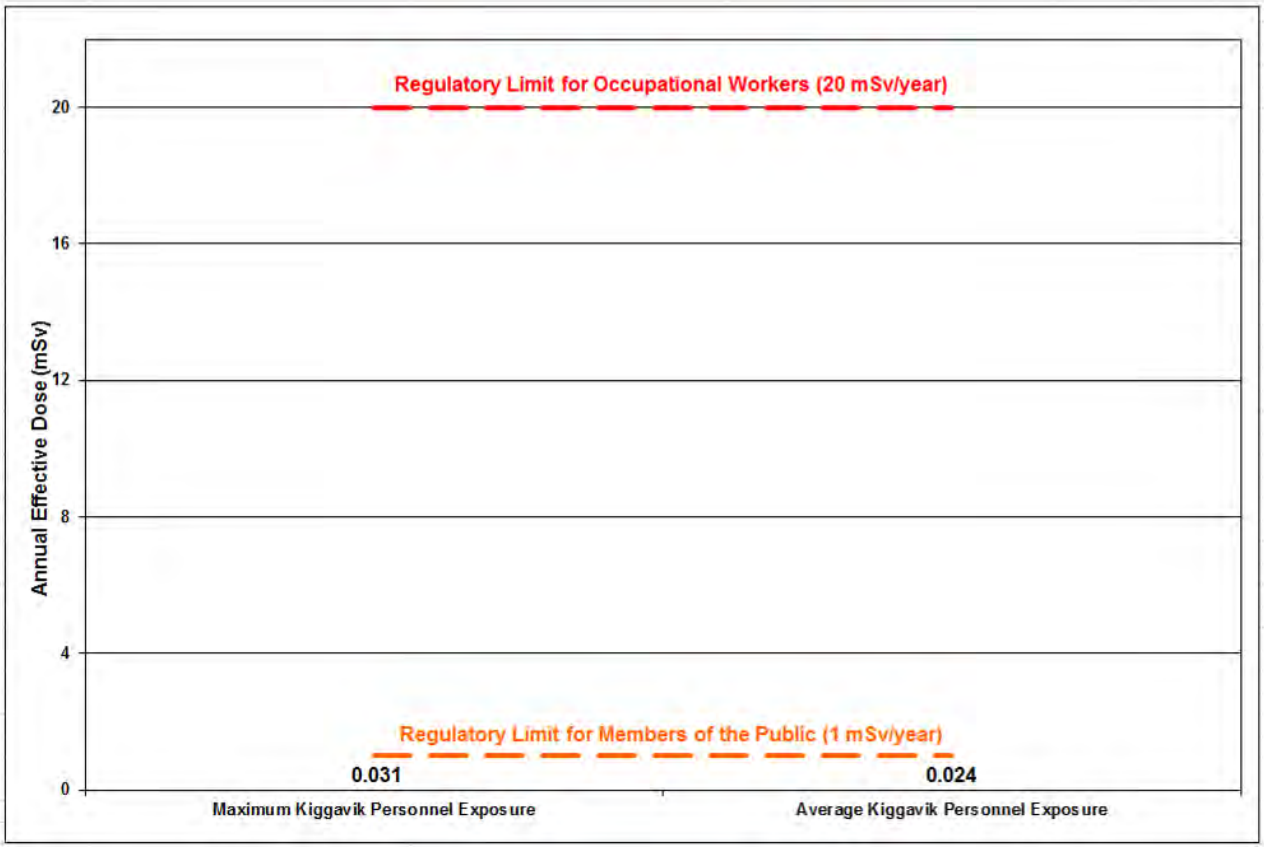



**Figure 1.6-1 2012 Kiggavik Personnel Annual Effective Dose**

# 2 SUMMARY OF PLANNED ACTIVITIES FOR 2013

## 2.1 GENERAL

Planned activities for the 2013 field season are similar to those conducted during the 2007-2012 field seasons; and consist primarily of exploration drilling throughout the lease areas to identify potential for additional mineral deposits and further evaluate known deposits. It is expected that the drill and support crews will commence mobilization to site between May and June with drilling completed and camp prepared for the winter season by the end September. All operations will be conducted out of the Kiggavik camp and will be supported by helicopter services and the Baker Lake office. The maximum number of people at the camp is estimated to be 59 in 2013.

## 2.2 FUEL CACHE

Bulk fuel tank storage systems (50,000 L Envirotanks) for both diesel and jet fuel will continue to be used during the 2013 field season.

## 2.3 DRILLING, SAMPLING AND TESTING

Although the 2013 drilling program has not been fully defined at this time, it may include drilling at Bong Grid, End Grid, Granite Grid, Kiggavik North, Kiggavik East, 85 West and Andrew Lake North (Figure 2.3-1).

- The objectives of the drilling campaign will be to collect resource data and to test new, previously untested areas for mineralizing systems
- Diamond drilling will include a total of 20 to 30 drill holes
- Total meterage is expected to be approximately 11,000 m
- The drill hole size will be NQ, though HQ is being considered in some areas
- Core orientation will be conducted using the Ace core orientation system, or equivalent
- Holes will be inclined (between -90° and -45°)
- Hole length is expected to range between 200 m and 500 m
- Drill locations will be picked in the spring of 2013

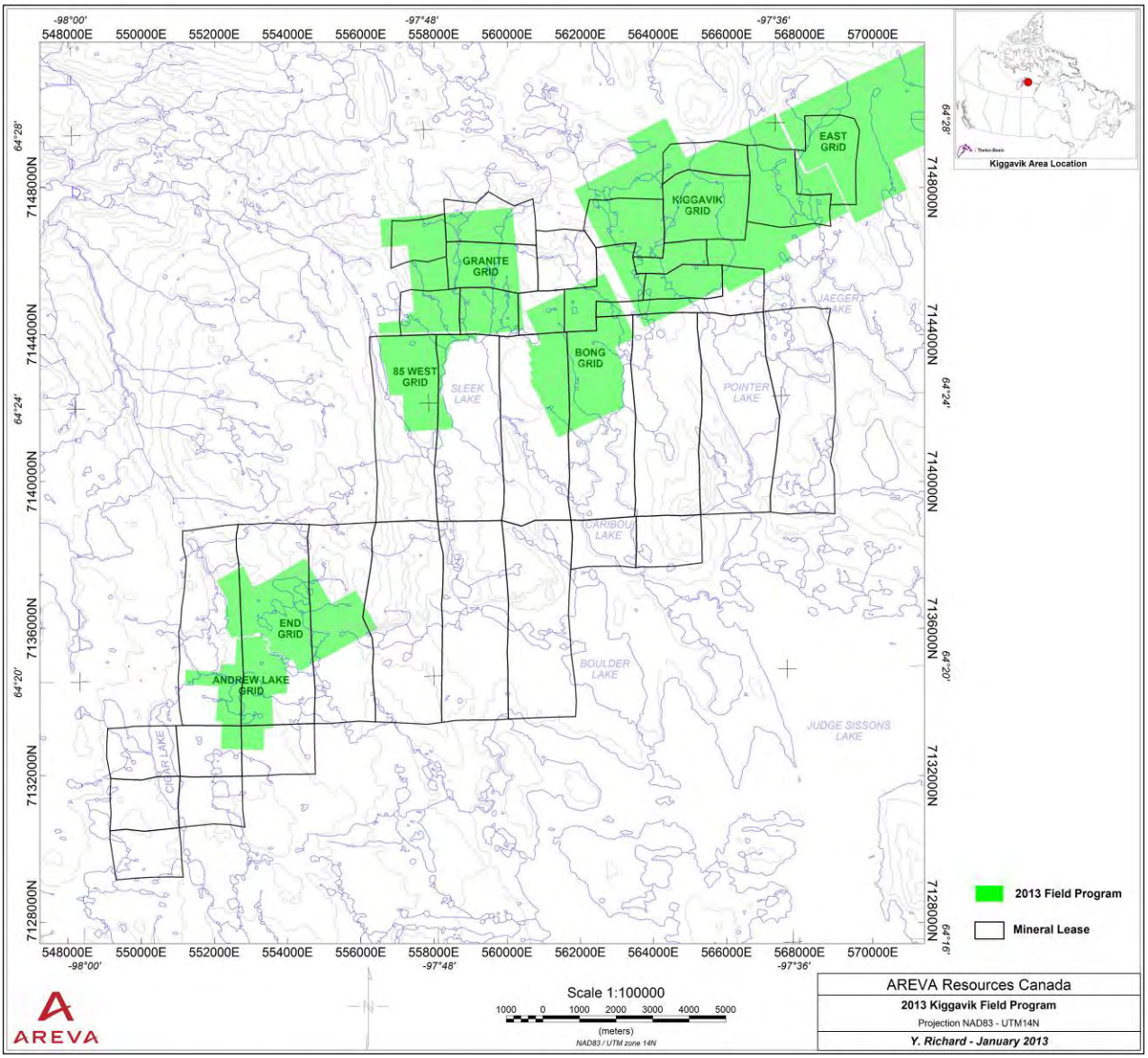



**Figure 2.3-1 2013 Kiggavik Field Program**

## 2.4 GEOPHYSICS

Ground geophysical surveys may be carried out throughout the lease areas to identify potential for additional mineral deposits and to further evaluate known deposit areas.

## 2.5 PROSPECTING AND GEOLOGICAL MAPPING

Prospecting and geological mapping may take place on the Kiggavik Lease and St. Tropez claim.

## 2.6 THERMISTOR INSTALLATION AND MONITORING

Currently there are no plans for the installation of additional thermistors in 2013. Monitoring of the existing thermistor network within the Project area may be conducted.

## 2.7 ENVIRONMENT AND RADIATION PROTECTION MONITORING

The 2013 Environment and Radiation Protection (ERP) monitoring program will continue to be conducted by AREVA staff with support provided by contractors if necessary. Wildlife monitoring will involve Wildlife Monitors from the Baker Lake community and Kiggavik personnel. AREVA staff will be responsible for the implementation of the following plans: Radiation Protection Plan, Spill Contingency Plan, Waste Management Plan, Noise Abatement Plan, Wildlife Mitigation and Monitoring Plan, and the Abandonment and Restoration Plan. These Plans were designed and implemented to ensure compliance with regulatory conditions and internal AREVA requirements.

## 2.8 ENVIRONMENTAL BASELINE WORK

As the review of the DEIS progresses, additional environmental baseline studies may be scheduled for the 2013 field season, however there are currently no studies anticipated for the 2013 season.

# 3 SUMMARY OF LOCAL HIRES AND INITIATIVES

An important aspect of the Kiggavik Project is that it brings employment and business opportunities to local residents. In 2012, local people were hired for work carried out at the Kiggavik camp and in Baker Lake. Local companies were successful in winning contracts. In addition to providing direct employment and business contracts, AREVA sponsored several events in the Kivalliq region in 2012.

## 3.1 LOCAL EMPLOYMENT

The Kiggavik Project provided employment to local people through direct hiring as well as by hiring local companies to supply labor services to the Project. During 2012, the project hired three local people directly – a Community Liaison Officer who worked afternoons throughout the year, a Community Relations Assistant who worked during the summer, and an Environmental Technician for the summer. The Environmental Technician from Rankin Inlet conducted environmental work at the Kiggavik Project, AREVA's McClean Lake mine site in Saskatchewan, and AREVA's decommissioned Cluff Lake mine site in Saskatchewan. Following completion of the field season, the Environmental Technician participated in the Kiggavik Project Community Tour through the Kivalliq region in October and November, 2012.

The Project contracted Inuit workers from a Baker Lake company for camp operations and maintenance, wildlife monitoring, and as geological assistants. Table 3.1-1 summarizes the employment provided to local Inuit workers for the past 5 years.

**Table 3.1-1 Local Employment**

| | 2008 | | 2009 | | 2010 | | 2011 | | 2012 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Inuit Workers | Hours | Inuit Workers | Hours | Inuit Workers | Hours | Inuit Workers | Hours | Inuit Workers | Hours |
| Local AREVA Employees | 2 | 2,214 | 3 | 2993 | 3 | 3076 | 2* | 2044 | 3* | 1830 |
| Contracted Workers | 29 | 10,958 | 31 | 10,205 | 27 | 6495 | 17 | 4980 | 10 | 4332 |
| Total | 31 | 13,172 | 34 | 13,198 | 30 | 9571 | 19 | 7024 | 13 | 6162 |

* Includes a non-Inuit local Community Relations Assistant from Baker Lake who worked in Baker Lake during the summer

The reduction in Inuit workers in 2011 and 2012 compared with previous years is due to a shorter season and no baseline field work compared with the previous years. In addition to the local employment listed here, the contracted work described in the next section also provided employment to residents of Baker Lake and other Kivalliq communities.

## 3.2 LOCALLY CONTRACTED WORK

Many goods and services obtained for the Kiggavik Project in 2012 were contracted to local suppliers. The total value of the local contracts in 2012 was $3M, approximately 28% of the total exploration and mine development expenditures of $10.7M. Much of this work went to companies with offices in Baker Lake and Rankin Inlet. There was also accommodation and meals in other Kivalliq communities.

Table 3.2-1 summarizes the value of contracts awarded to northern businesses since 2007. The work contracted to local companies in 2012 consists of:

- Diesel and jet fuel
- Expediting and transportation
- Environmental Assessment studies
- Helicopter services
- Groceries
- Meals and accommodations
- Translation services
- Cleaning services
- Labour
- Office utilities
- Snow clearing at site

**Table 3.2-1 Kiggavik Project Northern Contracts**

| | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | Total |
|---|---|---|---|---|---|---|---|
| Inuit Owned companies* | $1.3M | $2.0M | $1.8M | $2.2M | $3.4M | $2.5M | $13.2M |
| Other Northern companies** | $1.1M | $1.5M | $1.0M | $0.6M | $0.3M | $0.5M | $5.0M |
| Total Northern Expenditures | $2.4M | $3.5M | $2.8M | $2.8M | $3.7M | $3.0M | $18.2M |
| Total Project Expenditures | $9.5M | $15.5M | $19.0M | $15.3M | $13.3M | $10.7M | $83.3M |
| Northern Content | 25% | 23% | 15% | 18% | 28% | 28% | 22% |

*Companies on the NNI list of Inuit owned companies
**Companies not on the NNI list but with offices in Nunavut and a significant number of Inuit employees

## 3.3 SPONSORSHIPS AND DONATIONS

The Kiggavik Project has sponsored community events in Baker Lake and other communities in the Kivalliq since 2006. Sponsorships were given to educational, community, cultural and sports events and celebrations. The list of events sponsored and donations given in 2012 is shown in Table 3.3-1.

**Table 3.3-1 Sponsorships and Donations for 2012**

| Category | Organization | Activity |
|---|---|---|
| Community | Baker Lake | Hamlet Days feast |
| | Baker Lake | Recreation Centre Improvements |
| | Chesterfield Inlet | Recreation Centre Improvements |
| | Chesterfield Inlet Food Bank | Food Bank at Christmas |
| Sports and Recreation | Baker Lake Ladies Volleyball | Tournament |
| | Baker Lake Soccer | Tournament |
| | Baker Lake Snowmobile Club | Race |
| | Whale Cove Fishing Derby | Fishing Derby |
| | Bike Rodeo | Kivalliq Communities |
| | Kivalliq Science Camp | Kivalliq Communities |
| Education | Rankin Inlet Students | Exchange trip |
| | | Graduation |
| | Actua | Program Support |
| | Northern Youth Abroad | Program Support |
| | Nunavut Sivaniksavut | Trip |

| Category | Organization | Activity |
|---|---|---|
| | Canada World Youth Program | Baker Lake |
| | Baker Lake grade school awards | Graduation |
| | Geocache | Baker Lake |
| | Coral Harbour School | Materials for pen making Project |
| | High School awards | 7 communities graduation |
| Culture | Back River Visit | Visit to Homeland |
| | Fashion Show | Baker Lake Nunavut Day |
| | Bowhead Whale Hunt | Repulse Bay |
| Environment | Spring cleanup | Baker Lake |
| Health & Safety | Baker Lake Search and Rescue | Helicopter support for search |
| | ASIST | Suicide Prevention Session in Arviat |

# 4 COMMUNITY ENGAGEMENT

AREVA recognizes that for success of the Kiggavik Project, AREVA will need the support of the people in the region. Information sharing and community engagement are not only requirements of the environmental assessment process, but also one of AREVA's corporate commitments. This section presents the engagement activities that were carried out by AREVA in Nunavut in 2012 primarily for the environmental assessment process. The exploration program carried out at Kiggavik was discussed at some of these events.

## 4.1 INFORMATION SHARING

### 4.1.1 Information Office

AREVA has operated an information office in Baker Lake since August of 2006. The office continued to be open to the public throughout 2012 on a daily basis. A bilingual Community Liaison Officer was present each afternoon to speak with visitors. Between June and August, a full time Community Relations Assistant was also working in the Information office.

### 4.1.2 Kiggavik Project Community Liaison Committee

The Kiggavik Project established a Community Liaison Committee (CLC) in December 2006 as a means of maintaining community involvement in Baker Lake. Committee members are appointed by their respective organizations and a community member is elected as Chair of the Committee.

The organizations represented on the CLC are:

- Hamlet Council
- Elders Society (male and female representatives)
- Youth Group (male and female representatives)
- District Education Authority
- Hunter and Trappers Organization
- Health Committee
- Justice Committee
- Business Community
- Aberdeen Lake People

During 2012, the Baker Lake CLC met on 4 occasions and the group visited the Kiggavik site once. The dates are shown in Table 4.1-2. Meetings were held at the AREVA Information Office in Baker Lake and were open to the public (Photograph 4-1). Meeting announcements were made on the local radio with the date, time and location. Following the meetings, radio announcements were made to provide Baker Lake residents with a meeting summary. Translation was provided and minutes were kept of each meeting. Meeting minutes are available at the information office in Baker Lake.

The Baker Lake CLC provided community advice to the Kiggavik Project throughout the year. Following is a summary of topics discussed with the CLC:

- Updates of Project activities including the field program, the overland haul, environmental baseline work and permits
- Updates on the environmental assessment process
- The Tour of Kivalliq Communities
- Information and updates on local employment opportunities and sponsorships

**Photograph 4-1 AREVA Group at CLC meeting, June 19**

### 4.1.3 Kiggavik Blog

On June 29, 2010 a new communication initiative, the Kiggavik Blog www.kiggavik.ca went live. This website contains project information, a schedule of events and allows for the public to ask questions. Answers to questions are usually posted within one or two days and the questions and answers remain for others visiting the blog to see. Statistics for the blog are shown in Table 4.1-1. Blog activity was fairly consistent throughout the year with the highest activity in June, July and November. There were 4,211 site visits in 2012, down from 5,649 in 2011.

**Table 4.1-1 Statistics for Kiggavik Blog**

| Month | | Site Visits | Page views | Unique visitors | Ave Pages viewed per visit |
|---|---|---|---|---|---|
| December 2012 | | 233 | 500 | 183 | 2.15 |
| November 2012 | | 425 | 976 | 310 | 2.3 |
| October 2012 | | 369 | 828 | 248 | 2.24 |
| September 2012 | | 349 | 803 | 270 | 2.30 |
| August 2012 | | 307 | 683 | 212 | 2.22 |
| July 2012 | | 533 | 1354 | 303 | 2.54 |
| June 2012 | | 432 | 1271 | 303 | 2.94 |
| May 2012 | | 390 | 1058 | 300 | 2.71 |
| April 2012 | | 325 | 804 | 257 | 2.47 |
| March 2012 | | 256 | 756 | 233 | 2.83 |
| February 2012 | | 253 | 529 | 207 | 2.09 |
| January 2012 | | 339 | 1027 | 249 | 3.03 |
| **Total** | **2012** | **4211** | **10589** | **3075** | |
| | **2011** | **5649** | **12986** | **4657** | |

### 4.1.4 Summary of Meetings and Events

AREVA has engaged in a series of initiatives to inform, consult with and involve the community in the Kiggavik Project since 2005. The initiatives and events carried out in 2012 are detailed in this section and are listed in Table 4.1-2. Included are events that were organized by AREVA as engagement for the environmental assessment and as part of community involvement. The majority of events occurred in Kivalliq communities or with organizations from Kivalliq communities. Some events took place with communities outside the Kivalliq Region. The various activities are discussed in the remainder of the section.

**Table 4.1-2 Community Information, Involvement and Engagement Activities - 2012**

| Community | Group | Date | *Purpose/ Topic* |
|---|---|---|---|
| Baker Lake | Community Liaison Committee | March 19 | Overland Haul discussed |
| | | Apr 26 | EA and IIBA. IIBA team introduced |
| | | Jun 19 | Operation at camp discussion |
| | | Aug 14 | Visit to Kiggavik |
| | | Oct 17 | Kivalliq Open House community tour discussed |
| | Hamlet | Jan 25 | Meeting with the Mayor and staff members in Vancouver during conference |
| | Elders | Oct 30 | Meeting to discuss DEIS and Significance |
| | Youth | June 30 | Geocache 1 |
| | | July 7 | Geocache 2 |
| | | Aug 14 | Youth Forum |
| | Community | July 9 | Fashion Show |
| | | Oct 29/30 | AREVA Open House re DEIS |
| Arviat | Hunters and Trappers Organization | May 24 | Meeting with Secretary/ Manager |
| | Community | Nov 9 | AREVA Open House re DEIS |
| Chesterfield Inlet | Hunters and Trappers Organization | Nov 3 | Meeting to discuss DEIS and Significance |
| | Hamlet | May 28 | Meeting with Mayor and SAO |
| | | Nov 2 | Meeting with Mayor and SAO |
| | Community | Nov 2/3 | AREVA Open House re DEIS |

| Community | Group | Date | *Purpose/ Topic* |
|---|---|---|---|
| Rankin Inlet | Hunters and Trappers Organization | Nov 6 | Meeting to discuss DEIS and Significance |
| | High School | Nov 6 | Discussion about mining opportunities with three classes |
| | BEAHR Class | June 20 | Spoke to this environmental program class about job opportunities. |
| | Community | Nov 5/6 | AREVA Open House re DEIS |
| Whale Cove | Hamlet | May 25 | Project update to EDO |
| | Hunters and Trappers Organization | May 25 | Meeting with President and Secretary/Manager |
| | Community | Nov 10 | AREVA Open House re DEIS |
| Coral Harbour | Hamlet | Nov 1 | Meeting with Hamlet Executive re DEIS |
| | School | Nov 1 | Discussion with grades 9-12 re opportunities in mining |
| | Community | Oct 31 | AREVA Open House re DEIS |
| Repulse Bay | Hamlet | May 29 | Meeting with Mayor |
| | | Nov 2 | Meeting with Mayor and SAO |
| | Hunters and Trappers Organization | May 30 | Update meeting with President and Secretary/Manager |
| | Community | Nov 1 | AREVA Open House re DEIS |
| Regional Organizations, Inuit, Government and IPG meetings | KIA | Apr 17 | Meeting with staff in Iqaluit |
| | | May 28 | Meeting with CLO in Chesterfield inlet |
| | | June 20 | Meeting with staff in Rankin Inlet |
| | NTI | May 8 | Meeting with President of NTI in Saskatoon |
| | NIRB | Jan 24 | Meeting with Staff in Vancouver |
| | | Apr 18 | Meeting with staff in Iqaluit |
| | Nunavut Mine Training Roundtable | Apr 18 | Annual meeting in Iqaluit |
| | Kivalliq Wildlife Board | June 18 | Project wildlife update at annual general meeting in Rankin Inlet |
| | Kivalliq Mayors | Sept 19 | Presentation at Annual meeting in Rankin Inlet |
| | BQCMB | May 17 | Discussion at Meeting in Prince Albert |
| | | Oct 15/16 | Discussion of Information Requests at Annual Meeting in Winnipeg |
| | Kivalliq Socioeconomic | Oct 16/17 | Annual Meeting in Rankin Inlet |

| Community | Group | Date | *Purpose/ Topic* |
|---|---|---|---|
| | Monitoring Committee | | |
| | Northern Project Management Office | Jan 25 | Update meeting in Vancouver |
| | | April 18 | Update meeting in Iqaluit |
| | Federal Senator for Nunavut | Jan 24 | Project Update meeting in Vancouver |
| | | Mar 5 | Project Update meeting in Toronto |
| | AANDC | Jan 24 | Update meeting in Vancouver |
| | | Apr 17/18 | Meeting with staff in Iqaluit |
| | Parks Canada | May 30 | Update meeting in Repulse Bay |
| Lutsel Ke | Council | July 23-25 | Meeting with stakeholder re Kiggavik DEIS |

**Hamlet Representatives**

Kiggavik team members met with the Mayors or Hamlet Representatives of Baker, Chesterfield Inlet, Whale Cove, Repulse Bay and Coral Harbour. Meetings were for an annual update of the status of the project with a focus on the Draft Environmental Impact Statement submitted in 2012.

AREVA gave a presentation to the Kivalliq Mayors at their annual meeting on September 19 in Rankin Inlet.

**Hunters and Trappers Organizations**

Meetings were held with the HTO's of five of the Kivalliq HTOs in 2012 during the tours of communities. An update briefing was given to the President and Secretary Manager of Repulse Bay and Whale Cove and to the Secretary/Manager of Arviat in May. A working meeting on the Draft Environmental Impact Statement was held with the Rankin Inlet and Chesterfield Inlet HTO's during the Open House tour in November.

AREVA met with the Kivalliq Wildlife Management Board on June 18 for a project update meeting during their Annual General Meeting.

## 4.2 KIVALLIQ COMMUNITY INVOLVEMENT

Community involvement for the Kiggavik project began in 2006. Community involvement activities are described in the following sections

### 4.2.1 High School Visits and Awards

The Kiggavik Project has been speaking with high school students in the Kivalliq region since 2006. The Award of Excellence is presented to the graduating high school student showing proficiency in math, science and Inuktitut. It has been awarded to a Baker Lake high school student each year since 2006. Since 2009, it has been awarded to a high school student in each of the seven Kivalliq communities. In 2012, a student at each high school was presented with of an Award of Excellence. Additionally, during the tour of Kivalliq communities in October and November, discussions on the Kiggavik Project and mining in general were held with classes in Coral Harbour and Rankin Inlet.

### 4.2.2 Baker Lake Summer Community Involvement

The 2012 summer events are summarized below.

**Fashion Show**

AREVA sponsored a traditional fashion show in Baker Lake on July 9. Inuit of all ages dressed in traditional Inuit clothing and were judged in various categories with prizes awarded. There were four categories from age 2 to adults. This is the third year AREVA sponsored a fashion show in Baker Lake. Photograph 4-2 shows fashion show participants.

**Photograph 4-2 Traditional Fashion Show in Baker Lake**

### Bike Rodeo

AREVA was a sponsor to RCMP Bike rodeos held throughout Kivalliq communities for the second year. RCMP taught bicycle safety to youth. AREVA's participation consisted of providing new helmets for each of the youth, providing safety coloring books and refreshments.

### Geo Cache

Youth geocache days were held in Baker Lake on June 30 and July 7 (Photograph 4-3). This was the third year for these events. Prizes were placed at locations around Baker Lake. Teams of youth were taught how to read GPS devices and were given the coordinates of the prizes and sent to find them. All prizes were found by all teams.

**Photograph 4-3 Geo-cache participants, Baker Lake, June 30, 2012**

**Youth Forum**

On August 12, youth from Baker Lake participated in the second Youth Forum, designed specifically to engage youth from Baker Lake about the Kiggavik project. The event was held at the AREVA office in Baker Lake. AREVA staff discussed issues with Baker Lake youth. This was the second Youth Forum held.

### 4.2.3 Homeland Visits

An initiative for people with close ties to the area where the Kiggavik Project is located began in 2006 and continues. Participants visit both the Project site and their traditional homeland. Since the start, 103 people have participated in 24 homeland visits. Each visit consists of one or more Inuk, who was born on the land, along with family members traveling by helicopter and visiting a location where they lived on the land. The AREVA Community Liaison Officer normally accompanies the group on the visit. Seven visits occurred in 2012.

A summary of the homeland visits to date is provided in Table 4.2-1. Homeland visits were conducted throughout 2012. As shown in Photograph 4-4, Baker Lake elders were able to return to Qikigtayualik, which was their homeland north of Shultz Lake.

**Table 4.2-1 Homeland Visits**

| Date | | Location | Community Participants |
|---|---|---|---|
| 2006 | Jul-27 | Aberdeen Lake and Beverly Lake | 12 |
| | Jul-28 | Aberdeen Lake and Beverly Lake | 3 |
| | Aug-24 | Aberdeen Lake | 3 |
| 2007 | Aug-17 | Schultz Lake and Aberdeen Lake | 4 |
| 2008 | Aug-21 | Schultz Lake | 4 |
| | Aug-21 | Judge Sissons Lake | 5 |
| | Sep-05 | Mallory Lake | 4 |
| | Sep-06 | Schultz Lake | 4 |
| | Sep-07 | Herman River | 4 |
| 2009 | Aug-11 | Garry Lake | 4 |
| | Aug-12 | Aberdeen Lake and Beverly Lake | 4 |
| | Aug-13 | Aberdeen Lake | 4 |
| | Sep-09 | Shultz Lake and Aberdeen Lake | 4 |
| | Sep-10 | Sand Lake | 4 |
| 2010 | Aug-28 | Ferguson Lake | 4 |
| | Aug-29 | Aberdeen Lake | 4 |
| 2011 | Jun-21 | Kazan River | 4 |
| 2012 | July 30 | 30 Mile Lake, Kazan River | 5 |
| | Aug 6 | Aleksektok Rapids | 4 |
| | Aug 14 | 308 Lake | 3 |
| | Aug 17 | Kazan River | 4 |
| | Aug 20 | Qikiqtaqyualik | 4 |
| | Aug 31 | Garry Lake | 4 |
| | Sept 1 | Mallory Lake | 4 |
| Total | | 24 Homeland visits | 103 Participants |

**Photograph 4-4 Homeland Visit en route to Qikigtayualik Lake on August 20, 2012**

## 4.3 SITE TOURS

Since 2005, community and other stakeholder groups have taken tours of uranium mines in Saskatchewan and the Kiggavik site.

### 4.3.1 Saskatchewan Minesite Tours

No Saskatchewan Mine tours were carried out in 2012, however mine site tours will continue. Since 2005, AREVA has hosted nine tours of Saskatchewan mine sites with 126 participants. A list of tours carried out since 2005 is provided in Table 4.3-1.

**Table 4.3-1 Tours of Saskatchewan Mines**

| Date | | Group | | Tour and meetings |
|---|---|---|---|---|
| 2005 | Sep 13-15 | 14 | Governments and co-management boards | Toured McArthur River and McClean Lake and held meetings in Saskatoon with Saskatchewan Environment, CNSC and Environmental Quality Committee members |
| | | | 32 from NTI, the three RIA's and the mayor of Baker Lake. | |
| | Sep 19-21 | 32 | NTI, the three RIA's and the mayor of Baker Lake. | Toured McArthur River and McClean Lake and met with Saskatchewan northerners who have worked with uranium mines. |
| | Oct | 11 | Councilors, elders, students, hunter/trappers and business people from Baker Lake | Toured McArthur River and McClean Lake |
| 2007 | Sep 11-13 | 12 | NPC Commissioners and Staff | Toured McArthur River, McClean Lake and Cluff Lake and met with EQC reps in LaRonge |
| 2008 | May 21-22 | 8 | Regional Committee members | Toured McClean Lake and Cluff Lake and met with the McClean Lake Elder |
| | | 1 | Arctic College representative | |
| | Jun 21-22 | 7 | Staff members from Government of Nunavut Departments | Toured McClean Lake and Cluff Lake |
| | Jul 15-17 | 12 | KIA Board Members and Staff | Toured McClean Lake and Cluff Lake and met with AREVA and CAMECO representatives in Saskatoon |
| | Oct 6-7 | 11 | Kivalliq Wildlife Management Board | Toured McClean Lake and Cluff Lake and met with McClean Lake elder and AREVA staff from the northern affairs office in LaRonge. |
| | | 9 | CLC | |
| | | 5 | Minerals Class from JA High School | |
| | | 2 | Regional Committee | |
| 2009 | Jul-14 | 2 | INAC representatives | Toured McClean Lake |
| Total | 9 tours | 126 | Visitors | |

## 4.3.2 Kiggavik Site Tours and Visits

Community people have been visiting the Kiggavik site since 2005. There was one community visit to Kiggavik in 2012. On August 14, 8 representatives of the Community Liaison Committee visited the Kiggavik site. A list of the stakeholder and community visits to Kiggavik since 2005 is provided in Table 4.3-2.

**Table 4.3-2 Site Visits to Kiggavik**

| Date | | Group | | Visit |
|---|---|---|---|---|
| 2005 | Aug-23 | 4 | Baker Lake elders | Visit after 2003 and 2004 cleanup |
| 2006 | Jul-27 | 12 | Homeland visitors | Visit Kiggavik site during homeland visit |
| | Jul-28 | 3 | Homeland visitors | Visit Kiggavik site during homeland visit |
| | Aug-24 | 3 | Homeland visitors | Visit Kiggavik site during homeland visit |
| 2007 | Aug-12 | 10 | CLC & community members | Tour of camp, core area and drilling |
| | Aug-17 | 4 | Homeland visitors | Visit Kiggavik site during homeland visit |
| 2008 | Jun-12 | 7 | Premier, Mayor and group | Tour of camp, core area and drilling |
| | Aug-21 | 8 | CLC | Tour of camp, core area and drilling |
| | Aug-27 | 5 | Regional Liaison Committee | Tour of camp, core area and drilling |
| | Sep-05 | 4 | Homeland visitors | Visit Kiggavik site during homeland visit |
| | Sep-06 | 4 | Homeland visitors | Visit Kiggavik site during homeland visit |
| 2009 | Aug-11 | 4 | Homeland visitors | Visit Kiggavik site during homeland visit |
| | Aug-12 | 4 | Homeland visitors | Visit Kiggavik site during homeland visit |
| | Aug-13 | 4 | Homeland visitors | Visit Kiggavik site during homeland visit |
| | Aug-19 | 12 | CLC and DEA reps | Tour of camp and core area |
| | Sep-09 | 4 | Homeland visitors | Visit Kiggavik site during homeland visit |
| | Sep-10 | 4 | Homeland visitors | Visit Kiggavik site during homeland visit |
| 2010 | Jul-20 | 3 | Blog Question Contest Group | Tour of camp and core area |
| | Jul-25 | 3 | Shultz lake group | Visited Kiggavik following a visit to Schultz Lake |
| | Aug-07 | 3 | Community members | Tour camp and core area |
| | Aug-22 | 8 | CLC | Tour of camp and core area |
| | Aug-24 | 3 | HTO | Tour of camp and core area |

| Date | | Group | | Visit |
|---|---|---|---|---|
| | Aug-25 | 7 | Elders | Tour of camp and core area |
| | Aug-25 | 3 | Blog question Contest Group | Tour of camp and core area |
| | Aug-25 | 2 | Mayor and one other | Tour of camp and core area |
| | Aug-29 | 4 | Homeland Visitors | Visit Kiggavik site during homeland visit |
| 2011 | Jun-21 | 3 | Mineral and Energy Class from JA High School | Tour of camp and core area |
| | Aug-11 | 4 | Bloq Question and Youth Forum Group | Tour of camp and core area |
| 2012 | Aug-14 | 8 | CLC Visit | Tour of camp and core area |
| Totals | | 147 | Visitors | |

# 5 INSPECTIONS

Inspections of the Kiggavik Project 2012 field activities were carried out by the KIA (June 27 and August 9), WSCC (July 18), Environment Canada (July 26), and AANDC (July 29).

During the inspection conducted by Environment Canada on July 26, the inspectors looked at the Kiggavik camp and drill rigs. No inspection report has been submitted to AREVA at this time however, no issues were brought up at the time of the inspection.

## 5.1 KIVALLIQ INUIT ASSOCIATION

Two inspections were conducted by the KIA during the 2012 field season. The first inspection occurred June 27 and included the inspector looking at the camp, core facilities, Bong drill site, and the fuel cache. During the second inspection on August 9, the inspector focused on the findings from the first inspection and confirmed that all action items had been completed. The findings of the first inspection are outlined in Table 5.1-1.

**Table 5.1-1 KIA Inspection – June 27, 2012**

| RECOMMENDATIONS/CONCERNS | ACTION TAKEN |
|---|---|
| Boart Longyear section (storage area) needs to be organized | Large items in the Boart Longyear laydown area which had been brought to site during the winter haul had shifted after the spring melt. The area was organized and drill rods were properly and securely stacked. |
| Catalogue core on ground, store properly | Non-mineralized core from old core racks had fallen on the ground. The core was picked up and properly stored in racks. |

## 5.2 WORKERS SAFETY AND COMPENSATION COMMISSION

The Mines Inspector for the WSCC conducted an inspection on July 18. The findings of the inspection are outlined in Table 5.2-1. The modifications to the roof of the drill are shown in Photograph 5-1 .

**Table 5.2-1 WSCC Inspection – July 18, 2012**

| RECOMMENDATIONS/CONCERNS | ACTION TAKEN |
|---|---|
| Please install a handrail or provide suitable fall protection on the roof to prevent a person falling from it. | Handrails were installed on the roof of the drill along the path from the top of the latter to the drill tower. |
| Please remove the damaged section of the diamond drill's winch line from service and ensure that when the line is fully played out for its full working length at least 3 dead wraps of rope remain on the drum. Alternatively replace the damaged cable with a new winch cable. | The hoisting cable was replaced on drill #1. |


**Photograph 5-1 Handrails Installed for Fall Protection**

## 5.3 ABORIGINAL AFFAIRS AND NORTHERN DEVELOPMENT CANADA

A water use inspection was conducted by AANDC on July 29, 2012. The inspector visited the Kiggavik camp, fuel cache and drill areas. The recommendations and/or concerns were noted in the Water Use Inspection Report, and are outlined in Table 5.3-1.

**Table 5.3-1 AANDC Inspection – July 29, 2012**

| RECOMMENDATIONS/CONCERNS | ACTION TAKEN |
|---|---|
| The Inspector encourages the Licensee to seek assistants, to engineer an acceptable sump and treatment system, which will not only retain the waste water but also remove the food particulate before discharging into the environment | At the end of the 2012 field season a pit was dug at the site of the sump deep enough to fit a drum (Photograph 5-3). Holes were punctured in the drum to allow water to seep out (Photograph 5-2). The drum will be filled with sand on the bottom and larger grained gravel on the top for filtration. This sump will then be ready to be used in the 2013 field season. |
| Inspector Requires<br>Artesian flow document in regards to acceptable rates<br>Water use volumes for this quarter<br>The inspector requires a timeline in regards to waste water management within 30 days of this inspection | The technical support document which was submitted to the NWB as part of the Amendment #6 application to allow drilling to continue during artesian flows and describes how "low flow artesians"/acceptable rates were determined was submitted to the Inspector on August 10. Also submitted at that time were the water use volumes to date and the timeline in regards to waste water management (sump construction). |

**Photograph 5-2 Punctured Drum to aid Seepage**

**Photograph 5-3 Sump after the Installation of the Punctured Drum**

# 6 COMPLIANCE WITH CONDITIONS

The following sections list the conditions of the Nunavut Impact Review Board (NIRB) Screening Decision, the Aboriginal Affairs and Northern Development Canada (AANDC) Land Use Permit, the Kivalliq Inuit Association (KIA) Land Use Licence and the Nunavut Water Board (NWB) Water Licence for the Kiggavik Project and also describe the means by which the Project has achieved compliance with these conditions.

## 6.1 NUNAVUT IMPACT REVIEW BOARD FILE NO. 06AN085

On March 26, 2008 NIRB re-issued the original terms and conditions (April 3, 2007 Screening Decision) along with the additional terms and conditions outlined in the August 30, 2007 and January 9, 2011 letters.

### 6.1.1 Original NIRB Screening Decision – April 3, 2007

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| AANDC imposed mitigation measures, conditions and monitoring requirements pursuant to the Federal Land Use Permit | Refer to Section 6.2 AANDC. |
| AANDC conducted a water use inspection pursuant to the Federal Land Use Permit on July 29, 2012. AANDC recommended that AREVA engineer an acceptable sump and treatment system, and requested documents regarding water use volumes and acceptable rates for artesian flow volumes. | AREVA provided the technical support document submitted to the NWB which defined acceptable “low flow artesian” flow rates. Water use volumes were also submitted to the inspector on August 10, and a sump management system was constructed. |
| KIA imposed mitigation measures and/or Environment Terms and Conditions pursuant to the IOL Licence | Refer to Section 6.3 KIA Land Use Licence. |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| Additional work (related to AANDC or KIA land applications) outside the original scope of the project proposal requires screening by NIRB; NIRB recommends any renewal request to be forwarded to them | Continual communication efforts are made with all regulatory agencies and boards. |
| GN – DOE CO's should conduct random inspections of the location from May to August to monitor compliance with DIAND Caribou Protection Measures | Conservation Officer Rob Harmer visited the Kiggavik Site on August 9. |
| GN-DOE should conduct on-going review of wildlife monitoring results as required by WMMP | Monthly wildlife reports were submitted to GN DOE during the duration of the 2012 field season. |
| After receiving the annual report, GN-DOE should report to NIRB and AANDC its findings regarding the possible impact of the Project on the Beverly and Ahiak caribou herds | No AREVA action required. |
| AANDC permit and KIA licence subject to any findings, direction or advice received from GN-DOE as result of 2007 GN/GNWT population surveys. | No AREVA action required. |
| AREVA to maintain a copy of Screening Decision at site | Located in the camp office and kitchen. |
| AREVA is to forward copies to NIRB of all permits obtained and required for the Project. | Ongoing. |
| AREVA shall operate in accordance with commitments made in all the Operation | AREVA is committed to achieving compliance as part of AREVA's commitment to continuous |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| Plans (namely Spill Contingency, Abandonment and Restoration, Noise Abatement, Waste Management, Wildlife Mitigation and Monitoring, Radiation Safety and the Environmental Code of Practice) | improvement. Operational Plans are reviewed at least once per year and revised as necessary. All revisions to Operational Plans are submitted with this annual report. |
| AREVA to operate in accordance with proponent commitments stated in Appendix A (see 6.1.2 below) | Refer to Section 6.1.2 Summary of Proponent Commitments. |
| AREVA to submit annual report to NIRB, AANDC, KIA and GN-DOE by 31 January each year | Annual Reports have been submitted for 2007, 2008, 2009, 2010, 2011 and 2012. |
| Shall abide by DIAND Caribou Protection Measures (see 6.1.4) and those mitigation measures outlined in the WMMP. | This is ongoing throughout the field season with employee/contractor training and awareness. This is monitored by AREVA staff and Wildlife Monitors. Refer to Section 6.1.4. |
| Prohibited to allow aircraft to take-off or land if groups of caribou are within 1 km of the airstrip or helipad. | Addressed in the Wildlife Mitigation and Monitoring Plan; pilots receive training and awareness; verified by a Wildlife Monitor. Refer to Section 1.4.5 for more information. |
| Update WMMP to include "Section 2.1 During June and July – To avoid injuries to caribou and humans, if one or more caribou approach within 1 km of drilling operations, then activities will be suspended until caribou leave the area." Any direction from GN-DOE or KIA regarding caribou management plan must be forwarded to NIRB. | Revised conditions established in previous Wildlife Mitigation and Monitoring Plan. GNDOE believes that 50 caribou is an appropriate threshold for the suspension of activities (December 16, 2008 letter to NIRB regarding INAC and KIA land use permit extension request). Monitoring program (including Inuit wildlife monitors) help to guide this protection measure. |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| Ensure no hunting or fishing without proper Nunavut authorizations | Employees and contractors made aware of required authorization during orientation and through on-going awareness. |
| Compliance with the *CWS for Dioxins and Furans*, and the *CWS for Mercury*. Efforts to achieve compliance reported in annual report. | Refer to Section 1.4.3.1. |
| Adherence to conditions in Appendix B *Archaeological and Paleontological Resources – Terms and Conditions for Land Use Permit Holders* (see 6.1.3 below) | Refer to Section 6.1.3; hiring of an independent consultant to conduct heritage surveys and investigations |
| Shall avoid known archaeological and/or paleontological sites | Record of known sites is kept updated and sites are avoided or handled appropriately by consultants and responsible authorities. |

### 6.1.2 Appendix A: Summary of Proponent Commitments

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| Disturbance to permafrost mitigated through insulating floors of buildings, keeping sump and incinerator area small and raising incinerator above ground | In compliance through proper site planning. |
| Use walkways to minimize soil and vegetation disturbance | Walkways are present between all buildings at the cabin and geology areas of camp; a new boardwalk was also built in 2012 connecting the two areas. This is addressed through training and awareness and all staff use walkways as much as possible. |
| Avoid wildlife during flights and avoid low flying | Ongoing through the implementation of the |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| to minimize impact of helicopter and airplane noise and presence | Wildlife Mitigation and Monitoring Plan; proper training and awareness to all site employees/contractors. Refer to Section 1.4.5 for more information. |
| Carefully monitor wildlife presence and collect daily wildlife sighting records. Information reported to management boards and regulatory authorities and used to plan work that minimizes wildlife disturbance | |
| Use protective procedures and containments to protect water quality | Ongoing through the implementation of the Spill Contingency Plan. |
| Grey water treated and monitored to ensure containment | At the end of the 2012 field season a pit was dug at the site of the grey water sump deep enough to fit a drum. Holes were punctured in the drum to allow water to seep out. The drum will be filled with sand on the bottom and larger grained gravel on the top for filtration. This sump will then be ready to be used in the 2013 field season. |
| No garbage to remain on site | Ongoing through the implementation of the Waste Management Plan. |
| Camp to be decommissioned when no longer in use | Addressed in the Abandonment and Restoration Plan. |
| No fuel, drill cuttings, chemicals, wastes or sediment will be deposited into any water body as per the Fisheries Act, S 36(3). | Ongoing through the implementation of the Waste Management Plan and the Spill Contingency Plan; proper training and awareness is provided to all site employees/contractors. |
| Sumps located above the high water mark of any water body to prevent contents from | No sumps are located above the high water |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| entering water body frequented by fish | mark of a water body. |
| Drilling additives or mud not to be used in connection with holes drilled through lake ice unless re-circulated or contained such that they do not enter the water or are demonstrated to be non-toxic | On ice drilling has not been conducted to date. If such activities take place in the future all proper methods will be applied in order to ensure drilling additives and muds do not enter the water. AREVA uses non-toxic materials wherever possible. |
| Land-based drilling not to occur within 30 m of the high water mark | Ongoing through the implementation of the Environmental Code of Practice; proper training and awareness provided; regular inspections of drill sites performed by environment group. Any drilling within 30 m of the high water mark will be under an approved licence amendment with applicable protection and mitigation measures in place to the satisfaction of the NWB and DFO. |
| Material will not be stored on the surface ice of lakes or streams. Materials on ice surface must be for immediate use. | Any materials on ice surface are for immediate use and completely removed before the melting of the ice. |
| If artesian flow is encountered, the drill hole will be immediately plugged and permanently sealed. | As approved by the NWB on March 14, 2012 AREVA is permitted to drill while under low flow artesian conditions within all areas encompassed by the Kiggavik Lease provided the appropriate measures are implemented (as outlined in Amendment approval). Refer to Section 7.2 for information regarding artesians encountered during the 2012 field season. |
| Winter road travel will not begin until the ground is sufficiently frozen to provide support | In compliance and ongoing. This is done by following the Environmental Code of Practice; |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| and to avoid surface damage and rutting | proper training and awareness is provided. |
| Locate winter road stream crossings that will minimize grades. Avoid bank disturbance and mechanized clearing immediately adjacent to any watercourse. | Committed to conduct when required and achievable. |
| Winter road lake and stream crossings to be constructed entirely of ice and snow materials and stream crossings are to be removed or notched prior to spring break-up. | Committed to conduct when required and achievable. |

### 6.1.3 Appendix B: Archaeological and Palaeontological Resources

Terms and Conditions for Land Use Permit Holders (Also attached to AANDC permit).

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| AREVA shall not operate any vehicle over a known or suspected archaeological or paleontological site | In compliance; use of ATV's only permitted around camp and for limited activities; addressed through proper training and awareness; included in site orientation. |
| AREVA shall not remove, disturb, or displace any archaeological artifact or site, or any fossil or paleontological site | Site rule that is reinforced during orientation. |
| AREVA will immediately contact the Dept. of Culture, Language, Elders and Youth (CLEY) should an archaeological site or specimen, or a paleontological site or fossil be encountered or disturbed by a land use activity. | AREVA will promptly contact CLEY should any site or specimen be encountered or disturbed. |
| AREVA will cease any activity that disturbs an | In compliance through proper training and |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| archaeological or paleontological site until permitted to proceed by CLEY | awareness; included in site orientation. |
| AREVA will follow CLEY and DIAND direction in restoring disturbed sites if required | AREVA strives to promptly follow-up on all recommendations/concerns. |
| AREVA will provide CLEY with requested information on sites encountered in the course of land use | Any information requested on sites encountered will continue be provided to CLEY. |
| AREVA will make best efforts to ensure all those working under a permit are aware of conditions concerning archaeological or paleontological sites | Training and awareness of archaeological and paleontological protocol is included in site orientation. Copies of all permits and licences are provided on site for reference. |
| AREVA shall avoid known archaeological or paleontological sites | Record of known sites is kept updated and avoided or handled by consultants on the advice/recommendations of responsible authorities. |
| AREVA shall have an archaeologist or paleontologist perform those functions required and permitted by CLEY. | In compliance; hiring of an independent consultant to conduct heritage surveys and investigations. |

### 6.1.4 DIAND Caribou Protection Measures

Note that these conditions are also included in the AANDC and KIA permits.

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| CARIBOU PROTECTION AREAS | |
| No activity, without approval of Land Use Inspector, between May 15 and July 15 within the Caribou Protection Areas | AREVA does not conduct any activity within the designated Caribou Protection Areas. |
| When caribou cows approach area of operation within the Caribou Protection Areas all personal not required for maintenance and protection of camp and equipment must leave the area. | |
| Activities within the Caribou Protection Areas occurring between May and July may be permitted by the Land Use Inspector if caribou cows are not expected to use the area for calving or post-calving. | |
| CARIBOU PROTECTION – GENERAL | |
| Operations will be suspended within any area occupied by cows and calves between May 15 and July 15 in the event caribou cows calve outside the designated Caribou Protection Areas. | These requirements are included in the Wildlife Monitoring and Mitigation Plan. Employees are made aware of these commitments and they are monitored by AREVA staff and Wildlife Monitors. See Section 1.4.5 for further information. |
| The following operations will be suspended in the presence of caribou cows and calves:<br>blasting<br>overflights at <300m above ground | |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| snowmobile and ATV use outside vicinity of camp | |
| CARIBOU PROTECTION - MIGRATION | |
| No operation will block or cause diversion to migration | Ongoing through the implementation of the Wildlife Mitigation and Monitoring Plan; proper training and awareness provided to all site employees/contractors |
| All activities that may interfere with migration will cease during migration | |
| CARIBOU CROSSING | |
| No camp construction, caching of fuel or blasting will occur within 10 km of a Designated Caribou Crossing between May 15 and September 1 | Ongoing through the implementation of the Wildlife Mitigation and Monitoring Plan; proper training and awareness provided to all site employees/contractors. |
| No diamond drilling operations within 5 km of a Designated Caribou Crossing between May 15 and September 1 | |
| ADDITIONAL | |
| Concentrations of caribou should be avoided by low level aircraft at all times | Ongoing through the implementation of the Wildlife Mitigation and Monitoring Plan; proper training and awareness provided to all pilots. Refer to Section 1.4.5 for more information |

## 6.1.5 Additional NIRB Terms and Conditions

Terms and conditions contained in August 30, 2007 letter:

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| SPILL CONTINGENCY PLAN | |
| AREVA to consult and implement recommendations found in the 2003 CCME guidance document PN 1326 entitled "Environmental Code of Practice for Aboveground Storage Tank Systems Containing Petroleum Product and Allied Petroleum Products" | The site layout and tanks have been designed by a consulting professional engineer and have been installed by a registered company/petroleum contractor to ensure compliance with the Canadian Council of Ministers of the Environment (CCME) Environmental Code of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products, 2003. In 2007 Golder Associates (Golder) conducted an engineering assessment to identify potential issues with the installation of storage tanks. Recommendations were provided for the foundation support for the storage tanks. To mitigate the potential issues described in the report, Golder recommended that the tanks be placed on timbers located under each saddle to provide an increased bearing area.<br><br>The use of timbers is a deviation from the CCME COP, however it should be noted that this is common practice in the area and AREVA received permission from the area Fire Marshal, Tim Hinds with the Government of Nunavut-Community and Government Services via email (Trevor Carlson, AREVA) on November 20th, 2007. |
| AREVA to revise Spill Contingency Plan regarding this amendment and conduct personnel re-training as per revised Spill Contingency Plan. AREVA to submit revised plan to NIRB and other regulators within 30 days of this decision | |
| Revisions to include: quantity of the proposed double-walled tanks and the site layout plan; design considerations for safe operation and maintenance; operation, maintenance and inspection procedures and an emergency response plan. | |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| | All necessary changes and appropriate training requirements have been made in both the Project's Spill Contingency Plan and the Emergency Response Manual. |
| Secondary containment or surface liner with adequate size and volume utilized during all fuel or hazardous substance transfers | In compliance and ongoing through the implementation of the Spill Contingency Plan and the Environmental Code of Practice. |
| Sufficient absorbent materials and spill kits during fuel transportation, storage and transfers are provided | In compliance and ongoing through the implementation of the Spill Contingency Plan. |
| DRILLING AND DISPOSAL OF RADIOACTIVE SUBSTANCES | |
| Use of biodegradable and non-toxic additives (Canadian Environmental Protection Act lists $CaCl_2$ as a toxic substance) | Committed to minimize the use of $CaCl_2$ when drilling conditions allow. |
| Drill holes that encounter uranium mineralization with a content >1.0% over a length of >1 m with a meter-percent concentration greater than 5% should be sealed by cementing over the entire mineralization zone; this should be at least 10 m above and below each mineralization zone. | Committed to conduct when required and achievable as per Uranium Exploration Plan. |
| All land-based artesian holes shall be documented, plugged and sealed with grout. | Refer to section 7.2 for information regarding all artesians encountered during the 2012 field season. |
| Core storage areas should be located at least 100 m from the high waterline of all water | Ongoing through the implementation of the Radiation Protection Program and appropriate |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| bodies. | site planning. |
| PHYSICAL ENVIRONMENT | |
| No movement of equipment or vehicles unless the ground is in a state capable of fully supporting the equipment or vehicles without rutting or gouging. Overland travel suspended if rutting occurs | Ongoing throughout field season. Importance communicated to employees and contractors during orientation and on-going awareness. ATV and snowmobile use is strictly controlled. |
| Additional camp facilities to be located on gravel, sand or other durable land | Is in compliance and is ongoing through site planning. All buildings/sleeping units built in 2007 and later are located on timbers placed on gravel to allow airflow underneath the building which prevents degradation to permafrost. |
| New sleeping units properly designed to prevent any degradation to permafrost | |
| Final inspections of entire site to be conducted by proponent and lead agency to ensure all areas have been reclaimed in accordance with authorizations | Addressed in the Abandonment and Restoration Plan |

Terms and conditions contained in January 9, 2009 letter:

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| The Proponent shall make all efforts to minimize the use of aerial surveys to obtain information about caribou. It is recommended that the Proponent employ daily stationary ground observations and satellite caribou collar data in obtaining the necessary monitoring data. | In replacement of aerial surveys, ground observations are utilized each day around camp and at the drill sites by the Wildlife Monitor. Satellite caribou collar data is provided AREVA by the GNWT and GN weekly. See Section 1.4.5 for further details on wildlife monitoring and mitigation. |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| The Proponent shall not conduct aerial surveys with flight altitudes less than 120 m above ground level between June 1 and August 15. | Aerial surveys are conducted for the purpose of gathering geophysical data. As included in the Wildlife Mitigation and Monitoring Plan it is required that such surveys are conducted at an altitude $\geq$ 120 m. |
| The Proponent shall not construct camps, cache fuel, conduct blasting or drilling activities, or operate ground, air, or marine based mobile equipment within 10 km of a 'designated and/or recognized caribou crossing' during periods of caribou migration. | There is no infrastructure or activities occurring within 10 km of a designated and/or recognized caribou crossing. Refer to Appendix A (Wildlife Mitigation and Monitoring Plan) for further details on AREVA's requirements. |
| Where wildlife are present, AREVA shall maintain a minimum flight altitude of 610 m above ground level where it is safe to do so | This requirement is specified in the Wildlife Mitigation and Monitoring Plan and communicated to the helicopter pilots. Flight altitudes checks are conducted by AREVA personnel to confirm this is complied with. |
| The Proponent shall maintain a daily logbook of caribou observations and submit these records to the Government of Nunavut, Department of Environment on a monthly basis. | A wildlife log is maintained in the Kiggavik kitchen, camp office and in each helicopter for personnel to track wildlife sightings. Wildlife sightings made by the wildlife monitor are also recorded. All wildlife sightings are reported to the GN-DoE monthly during the field season. See Section 1.4.5 for further details on monitoring and mitigation. |

## 6.2 ABORIGINAL AFFAIRS AND NORTHERN DEVELOPMENT CANADA

The following table lists terms and conditions appended to AANDC Land Use Permit N2009C0017 (Received January 21, 2010; permit extended to April 9, 2013).

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| Shall remove all scrap metal, machinery parts, barrels and kegs, building and building materials | Development of a Waste Management Plan and an Abandonment and Restoration Plan to address these issues; efforts are being made to identify local approved handling facilities. |
| Shall notify a Land Use Inspector at least 10 days prior to backfilling any sump. | Noted. Has not been required to date. |
| Shall use a forced-air fuel-fired incinerator to incinerate all combustible garbage and debris. | All combustible garbage is burned in a single chamber, forced-air fuel-fired incinerator. |
| a) place all excavated material over the sump area<br>b) overlap the replaced material a minimum of two (2) metres beyond the edges of the existing sump wall | Noted. |
| a) where flowing water from bore holes is encountered, plug the borehole in such a manner as to permanently prevent any further outflow of water.<br>b) The artesian occurrence shall be reported to the Engineer within forty-eight (48) hours. | Refer to Section 7.2 for information regarding artesians encountered during the 2012 field season |
| Shall prepare the site in such a manner as to | Walkways around camp prevent rutting and |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| prevent rutting of the ground surface | ground disturbance. As well an ATV is used around camp, however its use is not permitted when ground is soft. The area is inspected regularly by AREVA site personnel. |
| Shall dispose of all fluids used to wash machinery and equipment in a sump unless otherwise authorized in writing by a Land Use Inspector | Noted. |
| Prior to the discharge of any sump, shall carry out an analysis of the fluids in a manner prescribed by the Engineer and obtain his written approval to discharge. | Noted. |
| Shall not conduct land use operation on any lands not designated in accepted application | Plans are made for activity only on approved lands. |
| Locate all camps on durable land | Camp location has been inspected and approved by regulatory agencies |
| Advise a Land Use Inspector at least 10 days prior to completion of land use operation (1. removal or storage of equipment and materials or 2. final clean-up and restoration of the lands use will be completed) | Addressed in the Abandonment and Restoration Plan. |
| Shall complete all clean-up and restoration of lands prior to expiry date of permit | Development of a Seasonal and Final Abandonment and Restoration Plan. |
| Only allow the use of equipment that is listed in the accepted application | AREVA abides by this and has made amendment requests seeking approval for additional equipment prior to its purchase/arrival on site. |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| Burn all combustible garbage in an acceptable container | All combustible garbage is burned in a single chamber, forced-air fuel-fired incinerator. |
| Keep all garbage and debris in a covered metal container until disposal. | All garbage is contained either in secure containers or inside buildings until incinerated. |
| Not locate any sump within 31 m of normal high water mark | No sump is located within 31 m of the normal high water mark. |
| Backfill and restore all sumps prior to expiry date of permit | Addressed in the Abandonment and Restoration Plan. |
| Housekeeping | Addressed through formal daily site inspections conducted by AREVA site personnel. |
| Not use unapproved chemicals | Comply with list provided in application. |
| Deposit all sewage in sump | Received verbal approval from inspector to incinerate solid sewage waste and discharge liquid waste with grey water. |
| Not to allow the spreading of drilling waste on surrounding lands | All non-radioactive drill waste is contained to a low-lying depression. All radioactive drill waste is disposed of down hole when achievable or collected and stored in long-term on-site storage facility. |
| Burn all garbage at least daily | Ongoing throughout field season. |
| Remove all non-combustible garbage and debris from land use area to a disposal site approved in writing by a Land Use Inspector | Currently being separated and stored for future removal off-site; some items are being backhauled off-site. |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| Report all spills immediately | Development and implementation of a Spill Contingency Plan; training and awareness. |
| Shall not unnecessarily damage wildlife habitat | Development and implementation of the Environmental Code of practice and the Wildlife Mitigation and Monitoring Plan; training and awareness |
| Shall not feed the wildlife | Implementation of the Wildlife Monitoring and Mitigation Plan; Communicated as site rule during orientation, training and awareness. |
| Provide in writing the location of all fuel caches within 10 days of establishment | Completed and AREVA will continue to communicate any fuel cache locations. |
| Fuel storage must be a minimum of 30 m from normal high water mark | The main and camp fuel caches are located >30 m from the normal high water mark. |
| Shall not allow petroleum products to spread to surrounding lands or into water bodies | Ongoing through the implementation of the Spill Contingency Plan and site orientation, training and awareness. |
| Mark all fuel containers with Permittee's name | Ongoing |
| Display land use permit number on all vehicles and equipment | These are displayed on both the ATV and the stand-up forklift |
| Dispose and seal drill mud solids or cuttings with uranium concentration >0.05% down hole | Radiologically contaminated material is collected in bags and stored in long term storage facility on site. All drill holes are permanently sealed. |
| Seal by grouting entire mineralization zone and greater than 10 m both above and below each | All drill holes are cemented and grouted as required. |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| mineralization zone, any drill hole that encounters mineralization with a uranium content greater than 1.0% over a length of >1 meter, and with a meter-percent concentration >5.0 | |
| Seal by cementing, all drill holes by grouting to an appropriate depth from the surface such that surface waters are prevented from interacting with ground waters | All drill holes are cemented and grouted as required. |
| Conduct radiometric surveys following backfilling of site. If material exceeds background radiation levels the Land Use Inspector must review and approve handling procedures. | Conducted upon completion of hole. Refer to Section 1.4.4.2 for further details. |
| Ensure gamma radiation levels of core storage meet the decommissioning requirements of less than 1.0 μSv one meter from surface, not to exceed 2.5 μSv. If core exceeds identified levels the Land Use Inspector must review and approve handling procedures. | Conducted as part of routine monitoring schedule. |
| Convert instruments to measure radiation counts per second to μSv/h | Automess has a read out in μSv/h. Conversion is known for other instruments used to measure gamma radiation. |

## 6.3 KIVALLIQ INUIT ASSOCIATION LAND USE LICENCE

The following table lists terms and conditions appended to KIA Land Use Licence KVL306C02 (received 3 April, 2007; expiry January 2012).

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| LICENCE TERMS AND CONDITIONS | |
| Compliance with all applicable regulations, laws, orders and with terms of licence. Provide KIA with written notices of non-compliance. | AREVA complies with all regulations, laws, orders and with terms of licence. Written notices are and will continue to be provided to KIA should a non-compliance occur. |
| Obtain and maintain such licences, permits or approvals from the federal, territorial or other governing bodies as may be necessary to enable the Licencee to undertake the permitted activities on the lands | AREVA will obtain all required authorizations. |
| Permit KIA reasonable access to site for purpose of inspecting | Ongoing. KIA conducted an inspection of the Kiggavik Project on June 27 and August 9, 2012. |
| All fees required under licence due on the first of each month. AREVA responsible for reasonable costs of inspections KIA deems necessary to monitor compliance. | AREVA has provided all formally requested fees. |
| Obtain and maintain appropriate insurance at all times during occupation. Proof of all insurance shall be provided | Ongoing. |
| AREVA is required to pay the applicable licence fees if operations cease and environmental remediation reclamation occurs | Condition is recognized by AREVA. |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| Any damage or injury to lands or property caused by licencee will be repaired, rebuilt, replaced and restored to the satisfaction of KIA. | Addressed in the Abandonment and Restoration Plan. |
| Submit a Work Plan (proposed operation for upcoming year) and an Environmental Action Plan (reclamation and remediation plans) to KIA no later than September 30th each year | Obtained agreement from KIA allowing all revised Plans to be submitted with the Annual Report in January of each year. |
| SCHEDULE A: GENERAL STANDARDS | |
| No operations on lands not covered by approved licence | In compliance and ongoing. |
| Contact KIA at least 48 hours prior to commencement of licensed activities | KIA has been and will continue to be notified prior to the start of each field season. |
| Keep all computable garbage and debris in a covered metal container; combustible garbage burned in a suitable container; non-combustible removed to approved locations | Ongoing by implementing the Waste Management Plan; includes the proper sorting and storage of garbage; non-combustible garbage back-hauled off-site. |
| Sewage deposited into a sump or removed from lands | Received verbal approval from inspector to incinerate solid sewage waste and discharge liquid waste with grey water. |
| No metal wastes buried without consent of the KIA | In compliance through the implementation of the Waste Management Plan; proper training and awareness; proper sorting and storage. |
| Locate all camps on gravel, sand or other durable land. No permanent structures erected without KIA consent. | Addressed in site plans; all permanent structures have approval of KIA. |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| Housekeeping – keep lands free of garbage and debris | Addressed through formal daily site inspections conducted by AREVA site personnel. Expectations are reviewed during site orientation. |
| All man-bear interactions reported to nearest Renewable Resources Office | AREVA will continue to comply if such interactions were to occur. |
| Licence available for viewing in a conspicuous place on site | All site staff is made aware of its location in the camp office and kitchen. |
| Within 60 days of licence expiry AREVA to provide KIA with final plan showing all areas used in operations | Condition noted and will be complied with upon expiry of approvals. |
| All buildings, equipment and materials removed (unless otherwise authorized) at completion of operations or licence termination. | This is addressed in the Abandonment and Restoration Plan. |
| All burial grounds avoided and left undisturbed. All discovered sites to be reported to KIA. | Condition noted and will be complied with upon occurrence. |
| Operations carried out as to minimize surface disturbance | Ongoing by implementation of the Environmental Code of Practice |
| All disturbed areas restored | AREVA continues to implement the Abandonment and Restoration Plan. |
| Surface vehicles not to be used to move drill rigs or other equipment/supplies without prior authorization. Vehicle use off approved routes prohibited. | In compliance; ATV approved to be used around camp only. Most material is transported by helicopter. |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| No petroleum storage containers within 12 m of the normal high water mark. | In compliance through the implementation of the Spill Contingency Plan; generally adhere to the more stringent condition of 30 m. |
| No petroleum or chemical products to spread to surrounding lands or waters | Ongoing through the implementation of the Environmental Code of Practice and the Spill Contingency Plan. This involves extensive preventative measures and careful monitoring. All fuel and equipment is kept at a minimum of 30 m from the high water mark |
| All petroleum shall be kept in approved containers marked or within a bermed area. All containers labeled with licencee name | Ongoing through the implementation of the Spill Contingency Plan. |
| All spills reported | A hose carrying non-mineralized drill cuttings burst near the END Grid streams on August 1, 2012 and was reported the same day. Refer to Section 9 for details. |
| All combustible waste will be incinerated or removed | Ongoing through the implementation of the Waste Management Plan; proper sorting of wastes; proper training and awareness. |
| All drill fluids disposed of in sump or naturally occurring contained depression. Drill fluids recycled whenever possible. | Non-mineralized drill fluids are deposited in a naturally low lying depression >30 m from any water body. Mineralized cuttings are collected and stored in the Radioactive storage compound. |
| No drill sumps to be located within 30 m of any water body | Instructed through Environmental Management Plans and adhered to through site planning. |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| All drill sumps to be restored to natural surrounding contours of the land prior to licence expiry | To be completed through the implementation of the Abandonment and Restoration Plan. |
| Restrict vegetation disturbance from deposit of drill fluids/cuttings to the area of the sump and ground prepared for re-vegetation upon abandonment | Ongoing throughout field season and implemented through the Abandonment and Restoration Plan. |
| No deposit of deleterious substances into any water body | Ongoing through the implementation of the Spill Contingency Plan. |
| Not cause obstruction of any stream | In Compliance through implementation of the Environmental Code of Practice; proper training and awareness. |
| Winter stream crossings must be removed prior to annual break-up | Condition noted. |
| Shall abide by Caribou Protection Measures | Measures have been integrated into the Wildlife Mitigation and Monitoring Plan. |
| Ensure there is not damage to wildlife habitat | Condition integrated into Wildlife Mitigation and Monitoring Plan and continued employee awareness through orientation and on-going training. |
| Shall cease activities that may interfere with migration or calving | Integrated into Wildlife Mitigation and Monitoring Plan and considered when planning site activities. |
| Shall not move any equipment or vehicles without prior testing the thickness of ice | No on ice drilling conducted to date; recommendation is implemented by contractors conducting winter haulage. |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| Shall suspend overland travel of equipment or vehicles if rutting occurs | Condition is noted. AREVA site personnel monitor land conditions during regular inspections of field operations and winter hauls. |
| Shall construct and maintain winter roads with a minimum of ten centimeters of packed snow at all times | Condition communicated to contractor carrying out winter haul. |
| Shall not use any equipment except of the type, size and number listed in the application | AREVA is in compliance with this list and any other amendments issued. |

## 6.4 NUNAVUT WATER BOARD LICENCE

The following table lists terms and conditions appended to NWB licence 2BE-KIG0812 (April 25, 2008 to December 31, 2012; previous licence No.'s 2BE-KIG0708 and 2BE-SIS0607).

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| GENERAL | |
| Annual fees paid in advance of water use | Ongoing. |
| File an annual report by March 31st | Fulfilled with submission of this report. Annual Reports had previously been submitted for 2007, 2008, 2009, 2010 and 2011. |
| Notify NWB of any changes in operating plan | Continual communication efforts are made with all regulatory agencies and boards and amendments applied for as necessary. |
| Install flow meters for measuring water volumes | Complete on camp water supply. Known pumping capabilities for all pumps at drills are known and can be used to calculate the maximum amount of water that can be used at the drills each day. This number is below the allowable limit for water used at the drills each day. Refer to Section 7 for further information. |
| Include proposed implementation timetable with submitted plans for Board approval and direction and implement plans as approved | All plans have been implemented. |
| Copy of Licence is maintained at site | Available in site office and in kitchen. |
| All reports, studies and plans submitted in paper and electronic and include executive summary in | Ongoing. |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| Inuktitut. Ensure documents are received and acknowledged. | |
| WATER USE | |
| Obtain all camp water from small unnamed lake approx. 300 m distance north of camp to maximum of 5 $m^3$/day | Licence No 2BE-KIG0812 Amendment #3 effective as of Aug. 7, 2009 states that the volume of water obtained for the camp is not to exceed 10$m^3$/day. Please see Section 7 for more details on compliance. |
| Obtain drill water from local source(s) to a maximum of 295 $m^3$/day | Licence No 2BE-KIG0812 Amendment #3 effective as of Aug. 7, 2009 states that the volume of drill water obtained from local source(s) is not to exceed 290 $m^3$/day. AREVA was compliant with this licence condition throughout the field season. |
| Volume of water under this licence not to exceed 300 $m^3$/day | AREVA was compliant with this licence condition throughout the season. |
| Streams cannot be used as a water source | Streams have not and will not be used as water sources. |
| Notify NWB of potential drawdown of a water source within 30 days of its occurrence | Condition is noted. NWB will be notified as required. |
| Water intake hoses have screens of appropriated mesh size | Ongoing. All water hoses are inspected by AREVA site personnel on an ongoing basis to ensure compliance with this condition. The appropriate mesh size is described in the Department of Fisheries and Oceans Freshwater Intake End-of-Pipe Fish Screen Guideline. |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| Shall not remove any material from below the ordinary high water mark of any water body | Training and awareness. Inspections are conducted to note non-compliance. |
| Shall not cause erosion to banks of any body of water | Condition met throughout the 2012 field season. |
| Implement sediment and erosion controls prior to and maintained during operation | Condition noted. Preventative and mitigation measures are in place for sediment and erosion control during drilling activities. |
| WASTE DISPOSAL | |
| Waste disposal is a minimum of 30 m from high water mark | Waste disposal sites are located more than 30 meters from the high water mark. |
| No open burning or on-site land filling | On-site incinerator is the only permitted burning; development and implementation of a Waste Management Plan. |
| Provide authorization from the community of Baker Lake prior to backhauling any waste | Received written consent from Baker Lake, forwarded to NWB. |
| Waste manifesting | Waste manifests are up to date for all waste backhauled. |
| Backhaul and dispose of all hazardous wastes, waste oil and non-combustible waste in an approved waste disposal site | Waste management and sorting is addressed in the Waste Management Plan. Until 2012, all waste oil was shipped to BLCS in Baker Lake to be burned in waste oil furnaces. As BLCS is not able to burn waste oil at this time, all waste oil generated during the 2012 field season will be backhauled to Baker Lake during the winter haul and shipped to an approved waste |

| RECOMMENDATION/CONDITION | COMPLIANCE ACTION |
|---|---|
| | handling facility in 2013. |
| Contain all grey water in a sump 30 m from high water mark | Currently grey water is being placed in a natural depression which is >100m from any water body. |
| Handling of toilet wastes | Rather than incinerator toilets, solid sewage waste is collected and incinerated. |
| CAMPS, ACCESS INFRASTRUCTURES AND OPERATIONS | |
| No camps or stored material on frozen streams or lakes | Operation is seasonal from May to September. Informed through training and awareness. |
| Conduct activities in a way to minimize impacts on surface drainage | Drainage and flow are considered prior to activities. |
| Winter lake and stream crossings shall be conducted entirely of water, ice or snow. Choose locations that minimize disturbance and remove or notch stream crossings prior to spring break-up. | Training and awareness are discussed with winter transport contractors. |
| Deposition of any debris or sediment into or onto any water body is prohibited. Disposed of at least 30m from the high water mark. | Training and awareness and project planning. |
| Within 90 days of licence issuance, provide Bulk Fuel Storage Facilities secondary containment facility design report and drawings and additional detail in the Spill Contingency Plan | Completed. |
| DRILLING OPERATIONS | |