9 CANADA WIDE STANDARDS

Efforts are being made to meet the Canada-Wide Standard (CWS) for Dioxins and Furans and the CWS for Mercury include the development and implementation of a Waste Management Plan involving waste inventorying, diversion and sorting prior to incineration. Only allowable materials are incinerated, including paper, food and packaging waste, non-treated wood and solid sewage waste. The potential impact of wastes on emissions is considered in the development of waste management procedures.

10 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.

10.1 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..

10.1.1 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 10.2 AANDC.
AANDC conducted land use inspections (pursuant to the Federal Land Use Permit) focused on ensuring compliance with DIAND Caribou Protection Measures	Occurred August 7, 2011. AREVA strives to promptly follow-up on all recommendations/concerns/deficiencies. Please refer to Section 7 for inspection details.
KIA imposed mitigation measures and/or Environment Terms and Conditions pursuant to the IOL Licence	Refer to Section 10.3 KIA Land Use Licence.
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 Officers Rob Harmer and Russell Toolooktook visited the Kiggavik Site on July 21.
GN-DOE should conduct on-going review of wildlife monitoring results as required by	Monthly wildlife reports were submitted to GN DOE during the duration of the 2011 field

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
WMMP	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 Plans (namely Spill Contingency, Abandonment and Restoration, Noise Abatement, Waste Management, Wildlife Mitigation and Monitoring, Radiation Safety and the Environmental Code of Practice)	AREVA is committed to achieving compliance as part of AREVA's commitment to continuous 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. As part of obtaining and maintaining ISO 14001 certification external auditors ensure compliance with all permits, licences and other commitments.
AREVA to operate in accordance with proponent commitments stated in Appendix A (see 11.1.2 below)	Refer to Section 10.1.2 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 and 2011.
Shall abide by DIAND Caribou Protection Measures (see 11.1.4) and those mitigation measures outlined in the WMMP.	This is ongoing throughout the field season with proper work instructions and employee/contractor training and awareness. This is monitored by ERP staff and Independent Wildlife Monitors. Refer to Section 10.1.4.
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 an Independent Wildlife Monitor. Refer to Section 3.6 for more information.

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
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 independent Inuit wildlife monitors) help to guide this protection measure.
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 9.
Adherence to conditions in Appendix B *Archaeological and Paleontological Resources – Terms and Conditions for Land Use Permit Holders* (see 11.1.3 below)	Refer to Section 10.1.3; 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.

10.1.2 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 camp and geology 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 to minimize impact of helicopter and airplane noise and presence	Ongoing through the implementation of the Wildlife Mitigation and Monitoring Plan; proper training and awareness to all site employees/contractors. Refer to Section 3.6
Carefully monitor wildlife presence and collect	

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
daily wildlife sighting records. Information reported to management boards and regulatory authorities and used to plan work that minimizes wildlife disturbance	for more information.
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	AREVA will ensure proper installation of a food particulate removal device and will work closely with catering staff to ensure both the grease trap and food particulate removal system are regularly cleaned and properly maintained.
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 implemented 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 entering water body frequented by fish	No sumps are located above the high water 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 30m 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	Any materials on ice surface are for immediate

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
lakes or streams. Materials on ice surface must be for immediate use.	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.	Refer to Section 11 for information regarding artesians encountered during the 2011 field season.
Winter road travel will not begin until the ground is sufficiently frozen to provide support and to avoid surface damage and rutting	In compliance and ongoing. This is done by following the Environmental Code of Practice; 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.

10.1.3 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 palaeontological 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 archaeological or palaeontological site until permitted to proceed by CLEY	In compliance through proper training and awareness; included in site orientation.
AREVA will follow CLEY and DIAND direction	AREVA strives to promptly follow-up on all

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
in restoring disturbed sites if required	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.

10.1.4 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	These requirements are included in the Wildlife Monitoring and Mitigation Plan.

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
and July 15 in the event caribou cows calve outside the designated Caribou Protection Areas.	Employees are made aware of these commitments and they are monitored by ERP staff and Independent Wildlife Monitors. See Section 3.6 for further information.
The following operations will be suspended in the presence of caribou cows and calves: o blasting o overflights at <300m above ground o 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 5km 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 3.6 for more information

10.1.5 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	The site layout and tanks have been designed by a consulting professional engineer and have been installed by a registered

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
"Environmental Code of Practice for Aboveground Storage Tank Systems Containing Petroleum Product and Allied Petroleum Products"	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. 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. All necessary changes and appropriate training requirements have been made in both the Project's Spill Contingency Plan and the Emergency Response Manual.
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.	
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 CaCl2 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 >1m with a meter-percent concentration greater than 5% should be	Committed to conduct when required and achievable as per Uranium Exploration Plan.

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
sealed by cementing over the entire mineralization zone; this should be at least 10 m above and below each mineralization zone.	
All land-based artesian holes shall be documented, plugged and sealed with grout.	Refer to section 11 for information regarding all artesians encountered during the 2011 field season.
Core storage areas should be located at least 100 m from the high waterline of all water bodies.	Ongoing through the implementation of the Radiation Protection Program and appropriate 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 Independent Wildlife Monitor. Satellite caribou collar data is provided AREVA by the GNWT and GN weekly. See Section 3.6 for further details on wildlife monitoring and mitigation.
The Proponent shall not conduct aerial surveys with flight altitudes less than 120 m above ground level between June 1 and	Aerial surveys are conducted for the purpose of gathering geophysical data. As included in the Wildlife Mitigation and Monitoring Plan it is

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
August 15.	required that such surveys are conducted at an altitude ≥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 3.6 for further details on monitoring and mitigation.

10.2 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, 2012).

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	Noted.

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
sump area b) overlap the replaced material a minimum of two (2) metres beyond the edges of the existing sump wall	
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. b) The artesian occurrence shall be reported to the Engineer within forty-eight (48) hours.	Refer to Section 11 for information regarding artesians encountered during the 2011 field season
Shall prepare the site in such a manner as to prevent rutting of the ground surface	Walkways around camp prevent rutting and ground disturbance. As well an ATV is used around camp, however its use is not permitted when ground it soft. The area is inspected regularly by the ERP Group.
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

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
	purchase/arrival on site.
Burn all combustible garbage in a 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 ERP group.
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	On going 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.
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

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
	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 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	All drill holes are cemented and grouted as required.
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 8 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	Automess has a read out in μSv/h. Conversion is known for other instruments

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
per second to μSv/h	used to measure gamma radiation.

10.3 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 September 30, 2011.
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.
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.

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
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 licenced 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.
Housekeeping – keep lands free of garbage and debris	Addressed through formal daily site inspections conducted by ERP group. 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.

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
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.
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 with a bermed area. All containers labeled with licencee name	Ongoing through the implementation of the Spill Contingency Plan.
All spills reported	A spill of Jet A fuel occurred on September 20 and was reported the same day. Refer to Section 14 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 >30m 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.
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	Ongoing throughout field season and

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
drill fluids/cuttings to the area of the sump and ground prepared for re-vegetation upon abandonment	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. Refer to Section 3.6.2 for further information on mitigation actions taken in 2011.
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.
Shall suspend overland travel of equipment or vehicles if rutting occurs	Condition is noted. AREVA staff 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.

10.4 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 and 2010.
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 11 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 Inuktitut. Ensure documents are received and acknowledged.	Ongoing.
WATER USE	
Obtain all camp water from small unnamed lake approx. 300m 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 10m^3/day. Please see Section 11 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.

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
	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 the ERP group 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.
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 2011 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	Waste management and sorting is addressed in the Waste Management Plan.

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
approved waste disposal site	Currently all waste oil is shipped to BLCS in Baker Lake to be burned in waste oil furnaces.
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	
AREVA to review and revise Uranium Exploration Plan as required by changes in operation and/or technology. Revisions to Plan submitted as addendum with Annual Report.	Board approved AREVA's Uranium Exploration Plan submitted October 17th, 2007. As part of AREVA's commitment to continuous improvement. Operational Plans are reviewed at least once per year and revised as necessary.
The Licencee shall not conduct any land based drilling within thirty (30) metres of the ordinary high water mark of any water body with the exception of the End Grid Lake area as identified in the application received dated October 9,	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

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
2008”	satisfaction of the NWB and DFO.
Drill waste (water, chips, muds, salts) from land-based drilling are disposed of in properly constructed sump or natural depression	Utilizing natural depressions, supplemented by temporary sandbag berms and visually monitoring flow. These inspections take place daily by ERP staff.
Drill mud solids or cuttings with a Uranium concentration > 0.05 percent are collected and disposed down hole and sealed.	This material is disposed of down hole or collected in bags and stored in appropriate storage facility for future handling
Immediately seal and cap artesian flow and report to NWB in annual report	Refer to Section 11 for information regarding all artesians encountered during the 2011 field season
Record the depth of permafrost – include in annual report	Please refer to Section 1.5 of this annual report
No on-ice drilling	On ice drilling will only occur under applicable approved licence amendments with appropriate protection and mitigation measures in place to the satisfaction all regulatory bodies.
When conducting drilling within 30 m of the ordinary high water mark of End Grid Lake, activities are to be on stable ground such as frozen tundra or bedrock	Drill platforms are located on stable ground and set up on timbers to prevent damage to permafrost.
AREVA shall establish water quality conditions of adjacent waters or waters immediately downstream prior to and upon completion of any drilling program within 30 m of the high water mark	In 2011 no drill holes were located within 30 m of the ordinary high water mark.
MODIFICATIONS	
Modification conditions	Project Manager is aware of these conditions and will comply to them if required
SPILL CONTINGENCY PLANNING	
Within 30 days of Licence issuance, submit addendum to Spill Contingency Plan to address issues identified during previous technical reviews and letter dated November 29, 2007 not	The Spill Contingency Plan was updated and submitted according to requirement and addressed all issues identified in 2007. The Plan will continue to be reviewed at

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
incorporated into October 2007 version.	least annually and revised if necessary.
AREVA to review and revise Spill Contingency Plan as required by changes in operation and/or technology. Revisions to Plan submitted as addendum with Annual Report.	Reviewed at least annually and reviews are submitted with the annual report.
Ensure that any chemicals, petroleum products or wastes associated with the project do not enter water. All sumps and fuel caches located at least 30m from high water mark and inspected on a regular basis. An exception to this condition is during drilling activities within 30 m of the ordinary high water mark at End Grid.	In compliance through the implementation of the Spill Contingency Plan; proper training and awareness. All drilling sites are inspected daily by the ERP group. Double walled tanks are used at the drills and secondary containment is used under all pumps and hoses.
While drilling is occurring within the 30 m high water mark at End Grid, AREVA may allow a limited supply of fuel within 30 m of the ordinary high water mark to support the drilling operations, provided that secondary containment is made available for the storage of fuel and all external pumps and motorized equipment used.	
Equipment maintenance and servicing conducted only in designated areas	Addressed through training and awareness.
Spill reporting procedure	Addressed in Spill Contingency Plan; training, awareness and site planning.
ABANDONMENT AND RESTORATION OR TEMPORARY CLOSING	
Submit Abandonment and Restoration Plan	Submitted, will be reviewed at least annually and revised if necessary
Within 30 days of Licence issuance, submit addendum to Abandonment and Restoration Plan to address issues identified during previous technical reviews with letter dated November 12, 2007 not incorporated into October 2007 version.	Complete The Kiggavik Contact List is kept as a separate document to allow frequent updates. All operational plans are reviewed and updated at least annually.
AREVA to review and revise Abandonment and Restoration Plan as required by changes in operation and/or technology. Revisions to Plan submitted as addendum with Annual Report.	Noted. This and other plans are reviewed annually and revisions are submitted with the annual report.
Complete restoration work prior to the expiry of	Addressed in the Abandonment and

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
this Licence	Restoration Plan.
Progressive reclamation is to be carried out	Reclamation to ensure chemical stability occurs in a progressive manner; best management practices for reclamation to ensure physical stability of surface disturbance is currently being investigated.
All sumps are backfilled to satisfaction of an Inspector	Will occur if required and will be inspected during regular visits to site.
Remove all site infrastructure and material before expiry of licence	Addressed in the Abandonment and Restoration Plan.
Shall re-grade roads and airstrip	Currently not required.
Remove all culverts	Currently not required.
Disturbed surfaces prepared for vegetation growth by ripping, grading or scaring surface to conform to natural topography	Addressed in the Abandonment and Restoration Plan.
Ensure areas contaminated by hydrocarbons are reclaimed to meet objectives outlined in the GN's Environmental Guidance for Site Remediation, January 2002. GN consultation and approval necessary to use reclaimed soil for the purpose of backfill or general site grading.	This is addressed in the Abandonment and Restoration Plan and the Spill Contingency Plan.
Drill holes and disturbed areas to be restored immediately upon completion of drilling. Reclamation must include removal of any drill casing material and capping of holes with a permanent seal.	Casing is cut off at ground level at all drill holes and holes are sealed by cementing and/or grouting. This is addressed in the Abandonment and Restoration Plan.
Drill core must be stored >30m above high water mark	Core is transported from the drill location to the Kiggavik camp on a daily basis and stored >30 m above the high water mark of the nearest water body.
Long term storage of core will not exceed radiation measurements of > 1.0 μSv at 1 m from surface and not to exceed 2.5 μSv	Implemented Radiation Protection Plan; regular inspections and monitoring are conducted by ERP group.
Seal by grouting entire mineralization zone and greater than 10 m both above and below each mineralization zone, any drill hole that encounters mineralization with a uranium content greater	Completed as required in all holes to date.

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
than 1.0% over a length of >1 meter, and with a meter-percent concentration >5.0	
Seal by cementing the upper 30 m of bedrock or entire depth of hole, which ever is less	Completed as required in all holes to date.
A detailed report outlining test results and proposed long term core handling and storage/removal mitigation will be submitted to the AANDC Water Resources Inspector if radiation levels for stored core exceed approved levels	Condition is noted, AREVA is committed to its compliance if required
All disturbed areas contoured and stabilized upon completion of work.	Addressed in the Abandonment and Restoration Plan
MONITORING PROGRAM	
Measure and record daily water quantities	Conducted and recorded daily by site staff. Please refer to Section 11 for further details.
Provide GPS coordinates of all water sources	Completed; refer to Section 11 for GPS coordinates.
Provide GPS coordinates of all waste locations	Incinerator: 64º 26’ 26.97” N 97º 39’ 30.47” W Grey Water Discharge Point (south of Kitchen building): 64º 26’ 26.75” N 97º 39’ 31.68” W
Provide follow-up monitoring and analytical results of the potable water supply previously utilized under Licence 2BE-KIG0708 including contamination sources and possible mitigation. Plans to address matter included in Annual Report.	Lab analysis was determined to be subject to error, therefore, AREVA re-sampled the camp water supply on June 27, 2009. Analysis conducted at the SRC Laboratory showed no traces of grease and oil
All sampling, preservation and analysis to be conducted in accordance with the *Standard Methods for the Examination of Water and Wastewater*	Noted
All analysis performed in an accredited lab (ISO/IEC Standard 17025)	SRC is accredited by the Canadian Association for Environmental Analytical Laboratories (CAEAL) for environmental testing procedures. Accreditation ensures that procedures, facilities, and methods conform to ISO 17025, the internationally

RECOMMENDATION/CONDITION	COMPLIANCE ACTION
	recognized standard. AREVA commits to only using labs that are adequately accredited.
Monitor drill sumps and core storage areas to assess and ensure mitigation required under Abandonment and Restoration Plan have been completed.	Ongoing, refer to Section 8.
All data, monitoring results and information required by this "Monitoring" section to be included in the annual report.	In compliance
AREVA shall establish baseline water quality conditions prior to drilling adjacent to End Grid Lake. Monitoring shall include but not be limited to the parameters listed in Part J, Item 10	No drill holes were located within 30 m of the ordinary high water mark at the End Grid site during the 2011 field season.
AREVA shall determine GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) of all drill hole locations within the 30 m ordinary high water mark in the END Grid area and provide these locations on a map of suitable scale for review as part of the annual report.	No drill holes were located within 30 m of the ordinary high water mark at the End Grid site during the 2011 field season.

11 WATER CONSUMPTION AND MANAGEMENT

Water used during the 2011 Kiggavik Project is permitted under the Nunavut Water Board Licence No. 2BE-KIG0812. The volume of water allowed at camp is 10 m³/day while at the drills it is 290 m³/day for a total of 300 m³/day.

11.1 WATER USE AT CAMP AND DRILLS

Water was drawn from local water sources for both hygienic uses at the camp, as well as to support drilling activities. The locations of these water sources are listed below in Table 11.1-1.

Table 11.1-1 Water Source Coordinates

Location Name	Use	Coordinates	
Camp	Emergency water source (i.e. Firefighting), drill water	64º 26' 31.78" N	97º 39' 30.83" W
Unnamed Lake	Hygienic water source	64º 26' 36.93" N	97º 39' 49.51" W
Mushroom Lake	Drill water when End Grid Lake is still frozen to bottom	64º 21' 23.8" N	97º 52' 48.6" W
End Grid Lake	Drill water	64º 20' 36.73" N	97º 52' 5.66" W
Andrew Lake	Drill water	64º 19' 57.48" N	97º 53' 52.46" W
Bong	Drill water	64º 25' 18.68" N	97º 42' 58.08" W
Bong	Drill water	64º 25' 16.32" N	97º 41' 33.73" W

The daily amount of water used during the 2011 field season is summarized in Table 11.1-2 below:

Table 11.1-2 Water Use During 2011 Season

Month	Date	Total camp (m³)	Drill 1 (m³)	Drill 2 (m³)	Drill 3 (m³)	Total
June	6	4.09	0	0	0	4.09
June	7	0.00	0	0	0	0.00
June	8	5.90	0	0	0	5.90
June	9	0.00	81.76	0	0	81.76
June	10	5.45	81.76	0	0	87.21
June	11	1.82	81.76	0	0	83.58
June	12	0.38	81.76	0	0	82.14

Month	Date	Total camp (m^3)	Drill 1 (m^3)	Drill 2 (m^3)	Drill 3 (m^3)	Total
June	13	4.16	81.76	0	0	85.92
June	14	0.00	0	0	0	0.00
June	15	5.68	0	0	0	5.68
June	16	4.16	0	81.76	0	85.92
June	17	4.16	81.76	81.76	0	167.68
June	18	4.16	81.76	81.76	0	167.68
June	19	4.16	81.76	81.76	0	167.68
June	20	4.16	81.76	81.76	0	167.68
June	21	4.16	81.76	81.76	81.76	249.44
June	22	4.16	0	81.76	81.76	167.68
June	23	4.16	0	81.76	81.76	167.68
June	24	4.16	0	81.76	81.76	167.68
June	25	4.16	81.76	0	81.76	167.68
June	26	4.16	81.76	0	81.76	167.68
June	27	4.16	81.76	0	81.76	167.68
June	28	4.16	81.76	0	81.76	167.68
June	29	4.16	81.76	81.76	81.76	249.44
June	30	4.16	81.76	81.76	81.76	249.44
July	1	4.16	81.76	81.76	81.76	249.44
July	2	4.16	81.76	81.76	81.76	249.44
July	3	4.16	81.76	81.76	81.76	249.44
July	4	4.16	81.76	81.76	81.76	249.44
July	5	4.16	81.76	81.76	0	167.68
July	6	4.16	0	81.76	81.76	167.68
July	7	4.16	81.76	81.76	81.76	249.44
July	8	4.16	81.76	81.76	0	167.68
July	9	4.16	81.76	81.76	0	167.68
July	10	6.25	81.76	81.76	0	169.77
July	11	4.16	81.76	81.76	0	167.68
July	12	4.16	81.76	81.76	0	167.68
July	13	4.16	81.76	81.76	0	167.68
July	14	4.16	81.76	81.76	0	167.68
July	15	4.16	40.8	0	81.76	126.72
July	16	4.16	81.76	0	81.76	167.68
July	17	4.16	81.76	0	81.76	167.68
July	18	4.16	81.76	81.76	81.76	249.44
July	19	1.10	81.76	81.76	81.76	246.38
July	20	3.50	81.76	81.76	81.76	248.78
July	21	4.17	81.76	81.76	40.8	208.49
July	22	5.53	81.76	81.76	81.76	250.81
July	23	3.40	81.76	81.76	81.76	248.68
July	24	3.63	81.76	81.76	81.76	248.91
July	25	4.58	40.8	81.76	81.76	208.90
July	26	4.73	81.76	81.76	81.76	250.01
July	27	3.43	81.76	81.76	81.76	248.71

Month	Date	Total camp (m^3)	Drill 1 (m^3)	Drill 2 (m^3)	Drill 3 (m^3)	Total
July	28	3.56	81.76	81.76	40.8	207.88
July	29	4.14	81.76	81.76	40.8	208.46
July	30	5.12	81.76	81.76	81.76	250.40
July	31	4.90	81.76	81.76	81.76	250.18
August	1	3.42	81.76	81.76	81.76	248.70
August	2	3.78	81.76	81.76	81.76	249.06
August	3	3.14	0	81.76	81.76	166.66
August	4	2.66	0	81.76	81.76	166.18
August	5	3.28	0	81.76	81.76	166.80
August	6	4.10	0	0	81.76	85.86
August	7	6.62	0	0	0	6.62
August	8	2.42	0	0	0	2.42
August	9	1.01	0	0	0	1.01
August	10	3.70	0	0	0	3.70

All camp water was pumped from the Unnamed Lake into holding tanks with marked volumes. These tanks were filled almost daily during slow periods and at least twice a day during busy periods. A water meter was installed at the beginning of the season, which measured the accumulative amount of water used. The camp's daily water usage was calculated each time the water tanks were refilled by subtracting the water meter reading before filling from the reading after refilling.

The daily amount allowable for the camp was not exceeded at any time during the 2011 field season. The maximum amount of water used at camp during the 2011 field season was 6.62 m^3 on August 7th.

The water pumps that Boart Longyear uses at each drill are identical and capable of pumping a maximum of 15 GPM (0.05678 m^3/min). At this rate, if all three pumps ran for 24 hours then the maximum volume of water that could be pumped to the drills in a day would be 245.29 m^3. Therefore, even if all water pumps are pumping at their maximum rate, which never occurred during the 2011 field season, the amount of water used at the drills would still fall below the limit of 290 m^3/day.

11.2 ARTESIANS

An artesian was discovered at Bong-052 during the night shift of July 20/21 at a depth of 320 m. A water sample was taken from the drill rods prior to the hole being permanently sealed and capped. The results of the water sample are shown in Table 11.2-1 Bong-052 Water Results. The hole was permanently sealed and capped June 21.

Table 11.2-1 Bong-052 Water Results

Analyte	Units	Bong-052 Result	CCME* Limits
Bicarbonate	mg/L	41	
Carbonate	mg/L	<1	
Chloride	mg/L	1670	

Analyte	Units	Bong-052 Result	CCME* Limits
Hydroxide	mg/L	<1	
P. alkalinity	mg/L	<1	
pH	pH units	7.2	6.5-9
Specific conductivity	uS/cm	4740	
Sum of Ions	mg/L	2530	
Total alkalinity	mg/L	34	
Total hardness	mg/L	1760	
Nitrate	mg/L	<0.04	13
Fluoride	mg/L	0.19	
Total dissolved solids	mg/L	3130	
Calcium	mg/L	461	
Magnesium	mg/L	148	
Potassium	mg/L	25	
Sodium	mg/L	182	
Sulfate	mg/L	2.8	
Aluminum	mg/L	55	0.005-0.1
Antimony	mg/L	0.004	
Arsenic	ug/L	29	5
Barium	mg/L	3.7	
Beryllium	mg/L	0.003	
Boron	mg/L	0.4	
Cadmium	mg/L	0.0005	0.000017
Chromium	mg/L	0.088	
Cobalt	mg/L	0.11	
Copper	mg/L	0.061	0.002-0.004
Iron	mg/L	13.3	0.3
Lead	mg/L	0.048	0.001-0.007
Manganese	mg/L	0.24	
Molybdenum	mg/L	0.57	0.073
Nickel	mg/L	0.11	0.025-0.15
Selenium	mg/L	0.015	0.001
Silver	mg/L	0.0045	0.0001
Strontium	mg/L	22.7	
Thallium	mg/L	<0.002	0.0008
Tin	mg/L	<0.001	
Titanium	mg/L	0.22	
Uranium	ug/L	500	15 (Long-term exposure) 33 (Short-term exposure)
Vanadium	mg/L	0.25	
Zinc	mg/L	0.07	0.03
Lead-210	Bq/L	0.47	
Polonium-210	Bq/L	0.47	
Radium-226	Bq/L	2.7	
Thorium-228	Bq/L	0.07	
Thorium-230	Bq/L	0.46	
Thorium-232	Bq/L	0.03	

12 DRILLING WITHIN 30 M OF THE ORDINARY HIGH WATER MARK AT END GRID SITE

No drill holes were located within 30 m of the ordinary high water mark at the End Grid site during the 2011 field season.

13 REPORTABLE SPILLS

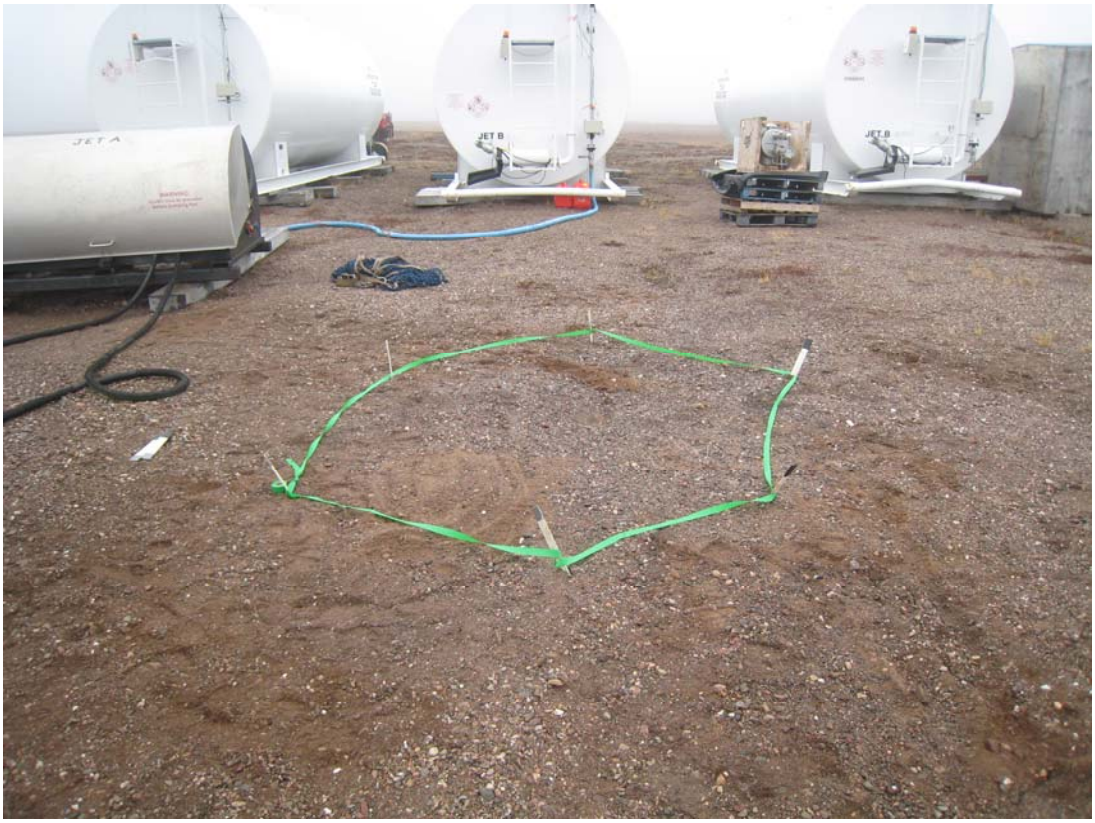
On September 20, 2011 an incident involving Jet A fuel occurred at the Kiggavik fuel cache. Although the Project's 2011 field season ended August 13, 2011, Forum Uranium (Forum) had arranged with AREVA to use some of the remaining fuel at the Kiggavik fuel cache.

At approximately 7:00 pm on September 20th a pilot with Forest Helicopters (under contract with Forum Uranium) was refueling a helicopter at the Kiggavik fuel cache. After placing the nozzle in the helicopter's fuel tank the pilot walked around the opposite side to reprogram his GPS. After a couple of minutes he walked back to the nozzle and found that it had fallen out of the helicopter and was continuing to dispense fuel onto the ground. He immediately shut off the pump to prevent any further spillage. He then collected as much spilled fuel as possible with absorbent matting from the spill kits located at the fuel cache, however much of the fuel had already soaked into the gravel. As it was getting dark he had to return back to the Forum camp and complete the cleanup the next day. When he returned on September 21st he took pictures prior to the clean up and collected the contaminated soil in rock bags which were temporarily placed in berms before being moved into a sea can at the Kiggavik site for future disposal. The spill area was also recontoured to ensure the area remained a safe helicopter landing spot near the fuel tanks. Pictures of the area before, during and after spill clean-up are shown in Photographs 13-1 to 13-3.

As the fuel cache is located on a gravel esker the cleanup did not damage any vegetation. Additionally, the fuel cache is located approximately 400 m from the nearest water body; therefore there is no concern of contamination of a water body.

The quantity of Jet A fuel estimated to have spilled is 100 - 150 L. Forum personnel notified the Kiggavik Project's Facility Supervisor of the spill who then contacted the 24 hr spill report line. A 30-day report, as required in accordance with Nunavut Water Board Licence No 2BE-KIG0812 and AREVA's Spill Contingency Plan, was submitted on October 20, 2011.

Personnel responsible for refueling are informed and trained on AREVA's refueling procedures and all fuel pumps are equipped with automatic shutoffs. In order to prevent a similar incident from occurring in the future, personnel responsible for refueling will be reminded not to leave pumps unattended while refueling and not to rely on the automatic shut-offs as they can malfunction. Signs reminding personnel not to leave fuelling unattended will be posted at the fuelling stations.



Photograph 13-1 Spill Area Prior to Clean-up

Photograph 13-2 Spill Area During Clean-up

Photograph 13-3 Spill Area After Clean-up and Recontouring

APPENDIX A - OPERATIONAL PLANS

Spill Contingency Plan

Radiation Protection Plan

Waste Management Plan

Wildlife Mitigation and Monitoring Plan

Abandonment and Restoration Plan

Noise Abatement Plan

Uranium Exploration Plan