



ANNUAL REPORT 2014

Inuit Land Use Licence Number: KVL308C09

AANDC Land Use Permit Number: N2012C0030

Nunavut Impact Review Board File Number: 08EN052



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July 22, 2014

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PROPERTY DESCRIPTION AND LOCATION

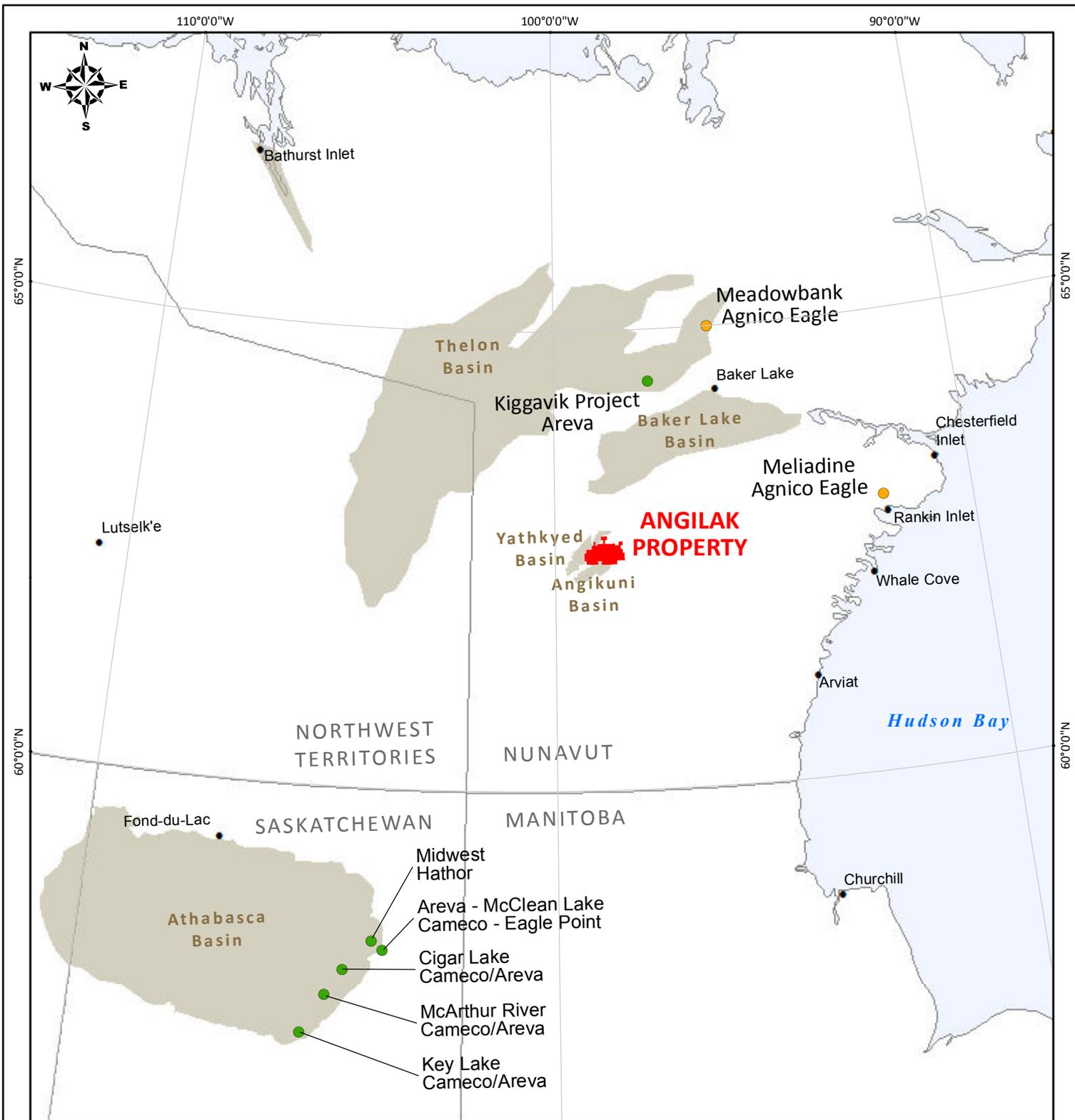
The Angilak Project property consists of 107 active mineral claims and Inuit Owned Land Parcel RI-30 (IOL), comprising a total area of 105,280.4 hectares in the Kivalliq region of southern Nunavut Territory (**Appendix A**). The property is located 350 kilometres west of Rankin Inlet and 225 kilometres southwest of Baker Lake (Figure 1). The property dimensions measure approximately 55 kilometres in an east-west direction and approximately 35 kilometres north-south.

As indicated on Figure 2, all mineral claims and the IOL are contiguous and extend north, south, east and west between latitudes 62° 27' and 62°48' North and longitudes 98° 21' and 99°24' West (UTM coordinates: 6925000N to 6965000N and 479300E to 533000E, NAD83, Zone 14 NTS map areas 65 J/06, 65 J/07, 65 J/09, 65 J/10, 65 J/11 and 65 J/15).

Land use permits enabling exploration work to be conducted on the property have been issued, renewed and amended by the Kivalliq Inuit Association (KIA) for parts of the property covering Inuit Owned Lands (IOL) and by Aboriginal Affairs and Northern Development Canada (AANDC) for Crown Lands. Kivalliq Energy Corporation (Kivalliq Energy) also operates under the terms and conditions of a Nunavut Water Board (NWB) licence, covering activities on IOL and Crown Lands. 2014 was the seventh year that Kivalliq Energy operated on the lands described in this report. See Table 1 for a list of active permits and licences issued for lands that comprise the Angilak Property.

Table 1: 2014 Land Use Permits and Licences

Issuing Agency	Date Issued	File Number
NIRB	July 31, 2008	08EN052
KIA	August 1, 2008	KVL308C09
NWB	March 4, 2013	2BE-ANG1318
AANDC	August 7, 2013	N2012C0030



- Angilak Property
- Advanced Projects
- Gold
- Uranium
- Town
- Proterozoic Basins

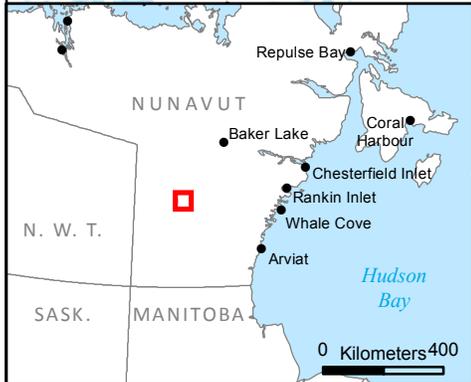
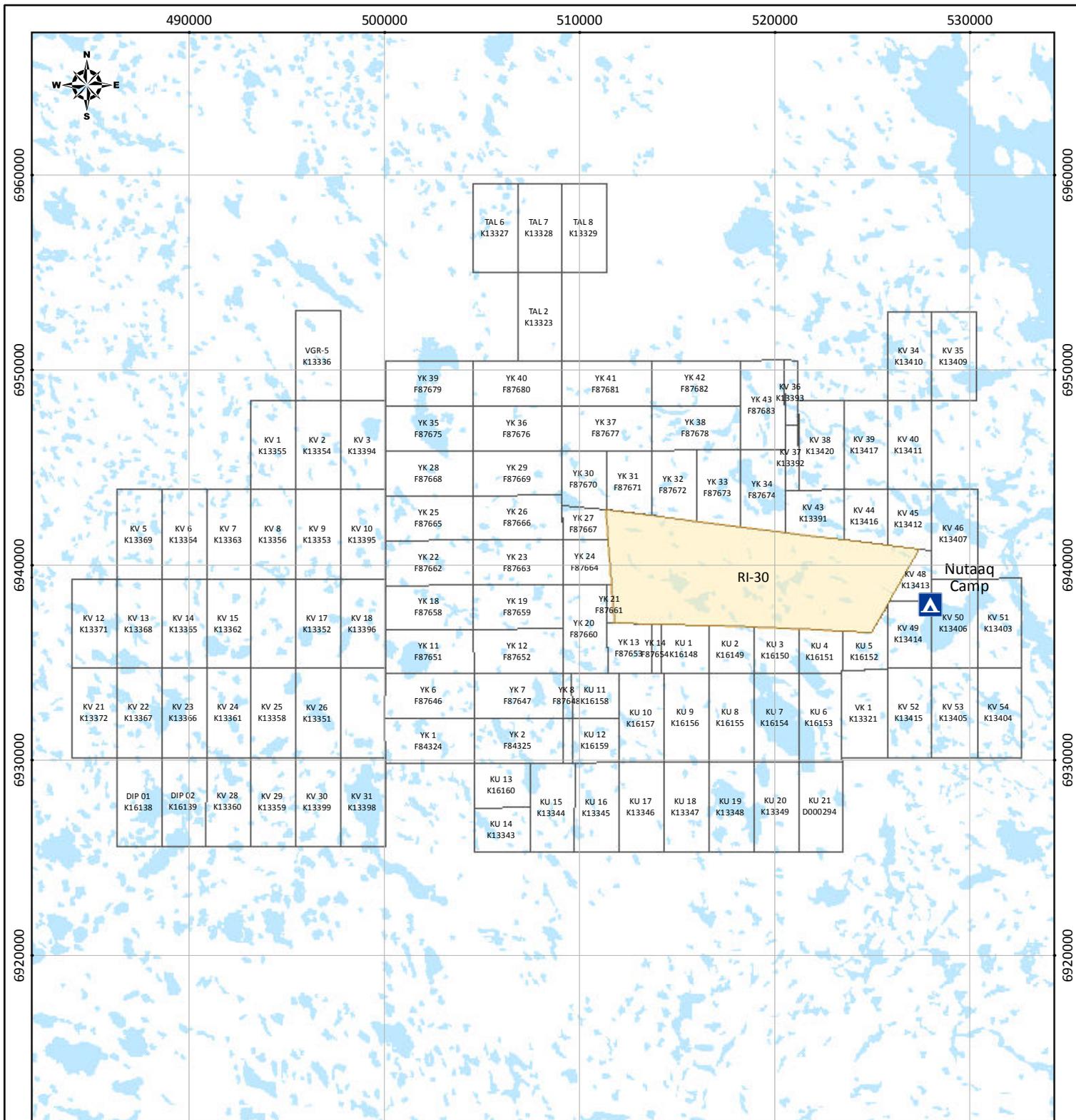


KIVALLIQ ENERGY CORP.

**ANGILAK PROPERTY
LOCATION**
Nunavut Territory, Canada
Figure 1

November 2014 Lambert Conformal Conic Scale: 1 : 6 500 000





-  Active Claim
Claim Name
Claim Number
-  Nutaq Camp
-  IOL Parcel
-  Lake



KIVALLIQ ENERGY CORP.

**ANGILAK PROPERTY
LAND TENURE**

Nunavut Territory, Canada

Figure 2

November 2014 UTM NAD83 Zone 14 Scale 1 : 275 000

0 Kilometers 20

CORPORATE BACKGROUND AND GENERAL INFORMATION

Kivalliq Energy is a Vancouver-based uranium exploration company holding Canada's highest-grade uranium resource outside of Saskatchewan's Athabasca Basin. The company has been operating in Nunavut since 2008. Its flagship project is the Angilak Property.

Kivalliq Energy was the first company in Canada to sign a comprehensive agreement with Nunavut Tunngavik Inc. (NTI) to explore on Inuit Owned Land for uranium. As part of this landmark partnership, Kivalliq Energy must meet certain expenditure and corporate commitments. Upon a production decision at the Angilak property NTI can elect to have a participating interest in the project, or collect royalties. Kivalliq Energy also makes advance royalty payments to NTI annually. The agreement not only applies to IOL RI-30, but also, extends to 107 Crown issued mineral claims. The Angilak property totals 105,280.4 hectares in all.

Kivalliq Energy Corporation was formed to advance the Angilak Property and other uranium opportunities in Nunavut. Management has extensive background working in Canada's north. John Robins is Chairman of the Company's board of directors, Jim Paterson is the Chief Executive Officer and Jeff Ward serves as President. Mr. Jonathan Singh is the Chief Financial Officer and Mr. Andrew Berry is Chief Operating Officer. Bill Cronk serves as Exploration Manager and Jim Malone, Jim Dawson, Dale Wallster and Garth Kirkham serve as directors. The group is committed to the social and economic development of the north while maintaining a level of excellence in minimizing environmental impacts. Kivalliq Energy is proud to have been presented in both 2011 and 2012 with the Environmental Excellence Award from the Kivalliq Inuit Association for outstanding environmental stewardship at Kivalliq Energy's Angilak Property. Kivalliq Energy looks forward to conducting a seventh tour of communities this year to meet with community members and increase awareness about the company and its projects.

Since 1979, the property and surrounding area has been called various names (i.e. LGT, Yathkyed, Lac Cinquante) however, Kivalliq Energy collectively refers to all land holdings as the "Angilak Property". The Angilak property hosts the high-grade Lac 50 (Lac Cinquante) uranium resource and more than 150 mineral showings.

From 2007 to 2013, Kivalliq Energy evaluated the Lac 50 trend uranium deposits through a series of exploration programs that include approximately 89,500 metres of diamond drilling and reverse circulation drilling. During that time the company delineated the Lac 50 Main Zone, Western Extension, Eastern Extension, J4 Zone and Ray Zone uranium deposits. On January 15, 2013 the company released an updated NI 43-101 inferred mineral resource estimate for the Lac 50 trend deposits of 43.3 million pounds U_3O_8 in 2,831,000 tonnes grading 0.69% U_3O_8 (at 0.2% U_3O_8 cutoff).

Kivalliq has also identified seven additional mineralized zones at Angilak that are not included in the resource estimate. The Blaze, Pulse, Spark, Forte, Southwest Extension, Hot and BIF zones remain at an early stage of investigation. The geologic characteristics for the numerous uranium deposits within the Lac 50 trend are very similar. The deposit are basement hosted, vein-

hydrothermal type. The emplacement of uranium is structurally controlled. Mineralization consists of disseminated and patchy pitchblende within fracture controlled brecciated, hematite-quartz-carbonate veins.

2014 WORK COMPLETED

Work in 2014 included soil sampling, airborne geophysical surveys and environmental baseline monitoring.

Soil Sampling

During the 2014 summer field season, Kivalliq Energy contracted APEX Geosciences geologists to conduct a helicopter-supported soil sampling program beginning August 26, 2014 and ending September 5, 2014.

The goal of the geochemical survey was to classify and prioritize bedrock conductors for drilling by identifying those conductors which have associated surface geochemical anomalies. Enzyme Leach Analysis was chosen due to its sensitivity in detecting mineralization beneath deep overburden, which in some areas has been shown to be superior and more cost effective to that of conventional soil assays. Soil sample locations can be seen in Figure 3.

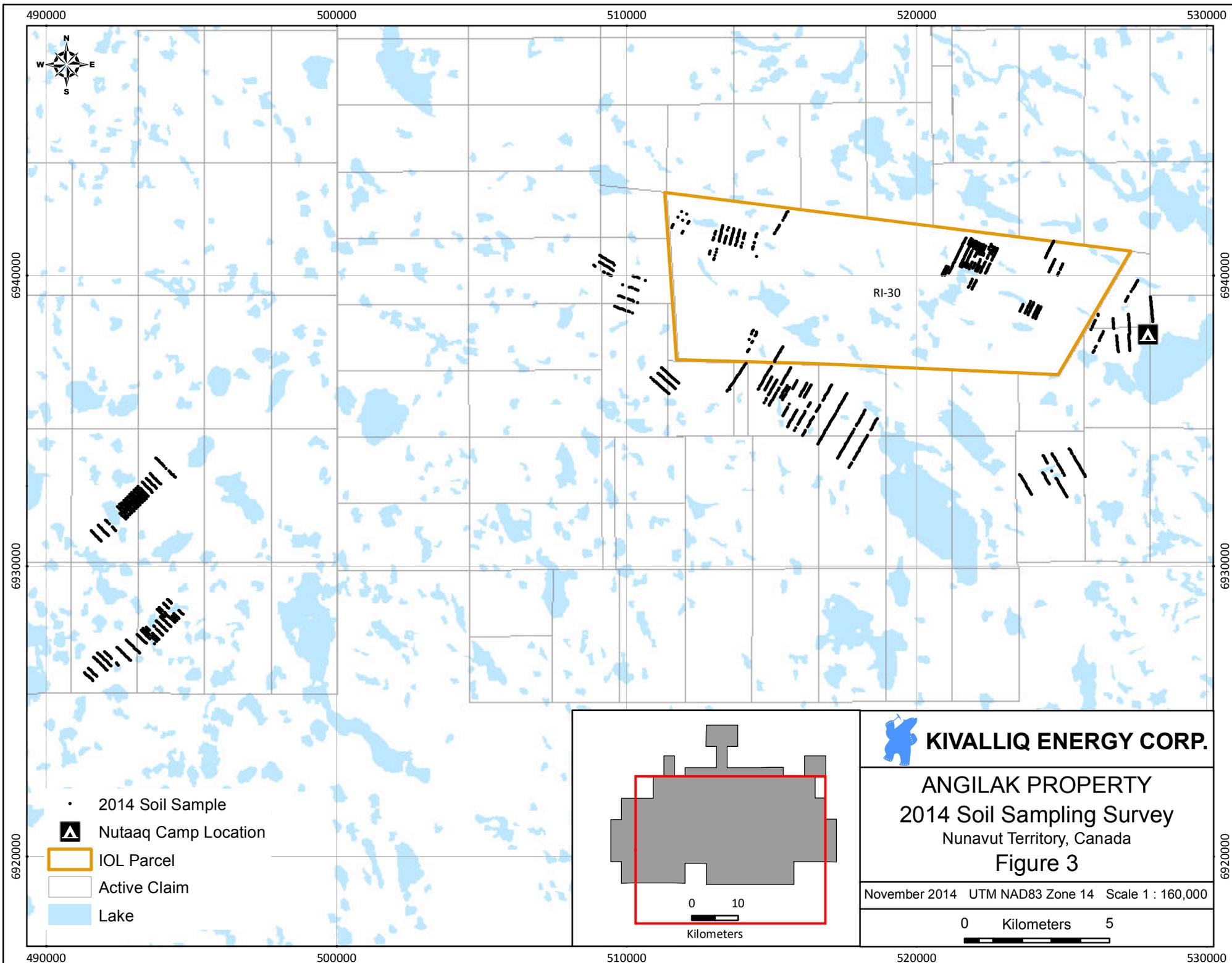
A total of 1651 samples were sent for analysis during the course of the program; 1514 of which were soil samples and 137 QA/QC samples. All samples were sent to Activation Laboratories Ltd. (ActLabs) in Ancaster, Ontario for Enzyme Leach Analysis.

Airborne Geophysics

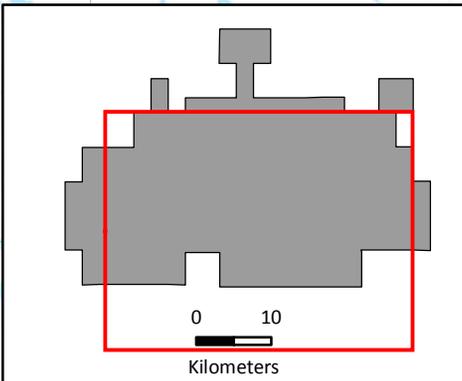
VTEM

In 2014 Geotech Airborne Geophysical Surveys was contracted by Kivalliq Energy to conduct Versatile Time Domain Electromagnetic (VTEM) surveying over a number of target areas. During the period September 4 to September 13, 2014, 1344 line kilometres of VTEM geophysical surveying was completed over the KU and Dipole Targets. The survey crew consisted of a geophysicist, a helicopter pilot and an engineer. The survey focused on two grids in key target areas covered by Proterozoic basin sediments, and along the unconformity at the northeast and west side of the Angikuni Basin. The line paths are shown below in Figure 4.

The survey equipment was mounted in an AW119Ke helicopter owned by Geotech Ltd. Principal geophysical sensors included a versatile time domain electromagnetic (VTEM plus) system, and horizontal magnetic gradiometer. Ancillary equipment included a GPS navigation system and a radar altimeter.



- 2014 Soil Sample
- ▲ Nutaaq Camp Location
- ▭ IOL Parcel
- ▭ Active Claim
- ▭ Lake



KIVALLIQ ENERGY CORP.

ANGILAK PROPERTY
2014 Soil Sampling Survey
 Nunavut Territory, Canada
Figure 3

November 2014 UTM NAD83 Zone 14 Scale 1 : 160,000

0 Kilometers 5

490000 500000 510000 520000 530000

6940000

6940000

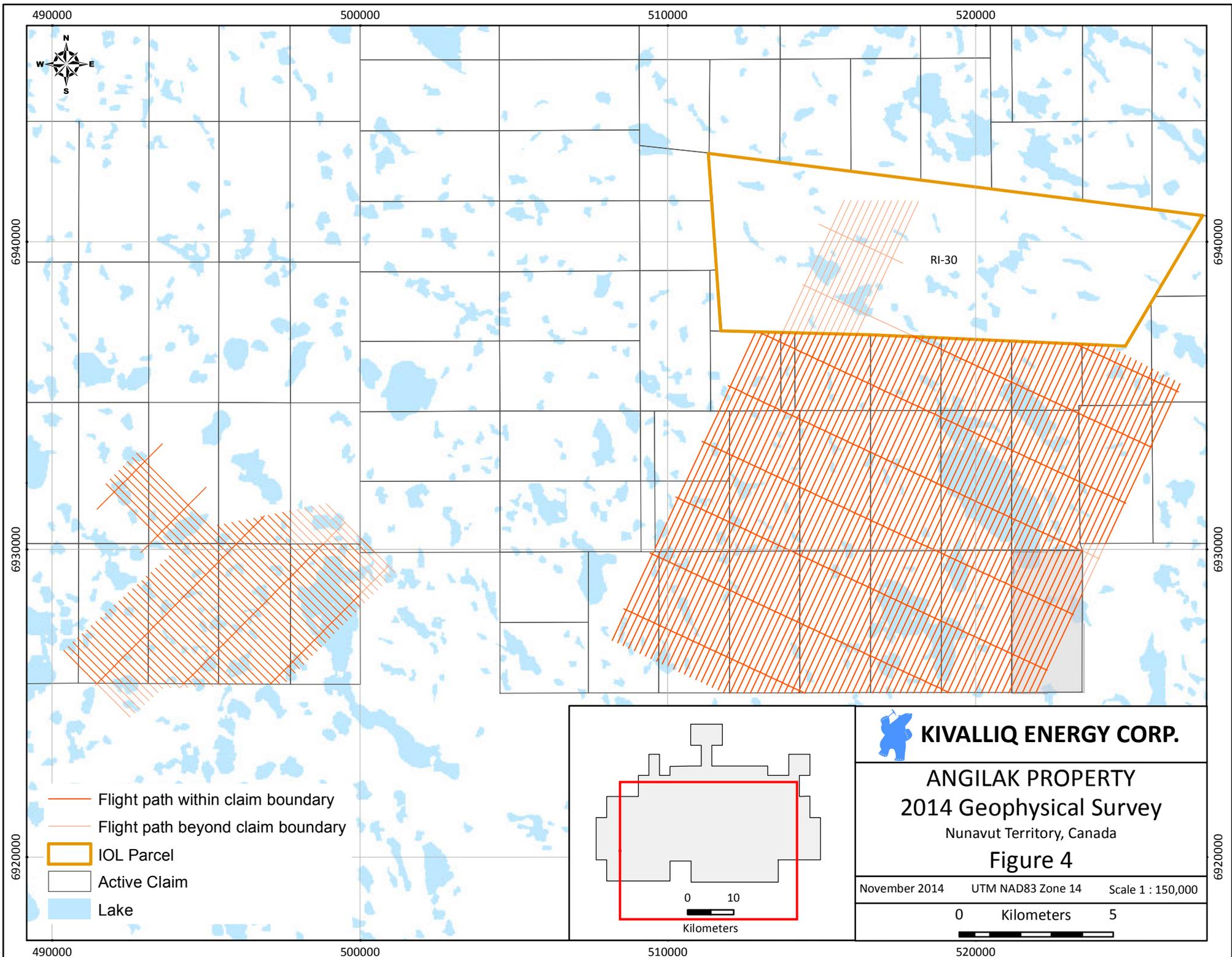
6930000

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490000 500000 510000 520000 530000



490000

500000

510000

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6940000

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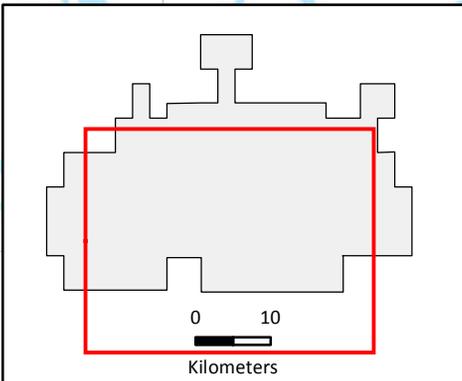
490000

500000

510000

520000

- Flight path within claim boundary
- Flight path beyond claim boundary
- IOL Parcel
- Active Claim
- Lake



KIVALLIQ ENERGY CORP.

ANGILAK PROPERTY

2014 Geophysical Survey

Nunavut Territory, Canada

Figure 4

November 2014
UTM NAD83 Zone 14
Scale 1 : 150,000

Camp Infrastructure

The Nutaaq Camp constructed in 2010 was expanded in 2011 and 2012 to accommodate larger exploration programs in those years. Minor downsizing of the camp was done in 2013 to reflect a smaller exploration program and included removing five Weatherport Sleepers. No changes were made to Nutaaq Camp in 2014. The camp is located at 527975m E, 6937950m N, NAD 83 Z14 and situated on an elevated flat topped gravel deposit formed in association with a large trunk esker approximately two kilometres west of the site. The site is adjacent to a 1.5 kilometre by 4.1 kilometre long east-west trending lake (Nutaaq Lake) which supplies the camp with water and accommodates ski equipped and float equipped aircraft. The lake is of sufficient length to establish an ice strip to accommodate larger aircraft such as Boeing 737 and Lockheed C130's. Adjacent flat topped gravel deposits serve as an airstrip for light aircraft, helicopter landing sites, and support core racks and fuel storage.

The camp in 2014 comprised twenty-two individual structures; 1-14'x32' kitchen, 1-14'x16' kitchen overflow, 1-14'x32' wash tent, 1-14'x16' toilet shack, 1-14'x16' Level II First Aid facility, a 10'x12' generator shed, 1-14'x16' office, 1-14'x 32' core tent, 1-14'x32' core splitting tent, 1-30'x60' Sprung structure and 12-14'x16' vinyl Weatherport sleepers. A solar-operated Bearwise electric bear fence surrounding the Nutaaq Camp and the Sprung Tent. Figure 5 below shows the camp layout.

Exploration activities were conducted from August 22 to September 15, 2014. The camp was winterized and closed for the season by a Discovery Mining Services employee with the help of a Kivalliq Energy employee. All canvas tent covers were removed from wooden tent frames. All Weatherport vinyl tents were left standing and the bear fence was left operational. The camp was shut down on September 15, 2014.

527700

527800

527900

528000



KIVALLIQ ENERGY CORP.

ANGILAK PROPERTY
2014 Nutaq Camp Layout

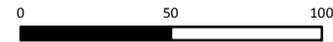
Nunavut Territory, Canada

Figure 5

November 2014

UTM NAD83 Zone 14

Scale 1 : 2500



Meters

6938300

6938200

6938100

6938000

6937900

6937800

6938300

6938200

6938100

6938000

6937900

6937800

Sprung Tent
(30'x60')

Fuel Berms
(18'x60')

Heli Pad

Generator Set

Heli Pad

Drill Shack

Core Shacks

Toilet

Office

Kitchen

First Aid Tent

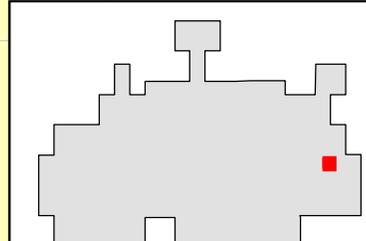
Toilets (x4)

Dry

Generator Set

Water Line ~150 m

Nutaq Lake



Kilometers

- Incinerator
- Spill Kits
- Bear Fence Gate
- Electric Bear Fence
- Camp Structures
- Esker
- Water Body



Nutaaq Camp

Environmental Baseline Monitoring Program 2014

Hemmera Envirochem Inc. (Hemmera) was contracted by Kivalliq Energy in 2010 to design and implement a customized early stage baseline monitoring program that corresponds with the stage of current exploration, and allows for rapid expansion or downsizing of monitoring studies as the exploration program changes in scope and scale from year to year. The program is designed to build an understanding of the local and regional environmental attributes that are of legislative, cultural, economic and/or scientific importance. The attributes selected for study are also those that will benefit from the longest record of data collection.

The monitoring program investigates five biophysical components:

- Water Quality,
- Hydrology
- Meteorology,
- Air Quality, and
- Non-invasive, Observational Based Wildlife Monitoring.

The Angilak Property baseline environmental monitoring study area is presented in Figure 6.

In 2014, monitoring studies focused on water quality, meteorology and wildlife as described below. Refer to **Appendix B** for Hemmera's report on the Angilak Project 2014 Water Quality Sampling Program and **Appendix C** for the Angilak 2014 Wildlife Incidental Observation Log.

Water Quality

In 2010, Hemmera initiated a water quality monitoring program to generate baseline water quality data in areas of active exploration. Sample sites were established on 20 representative water bodies. An additional five sites were added in 2012. For continuity, one sampling event was conducted over 13 sample sites in late August, 2014. Water was analyzed for hardness, metals, pH, total suspended solids, ammonia, nitrate, cyanide and alkalinity.

Meteorology

On-site meteorological data continued to be collected in 2014 by a fully automated Onset Hobo Weather Station with an OTT Pluvio Rain Gauge that was installed in June 2010. Parameters recorded include; air temperature, relative humidity, total precipitation, barometric pressure, wind speed and direction. Data has been collected since July 2, 2010, with intermittent interruptions caused by technical issues.

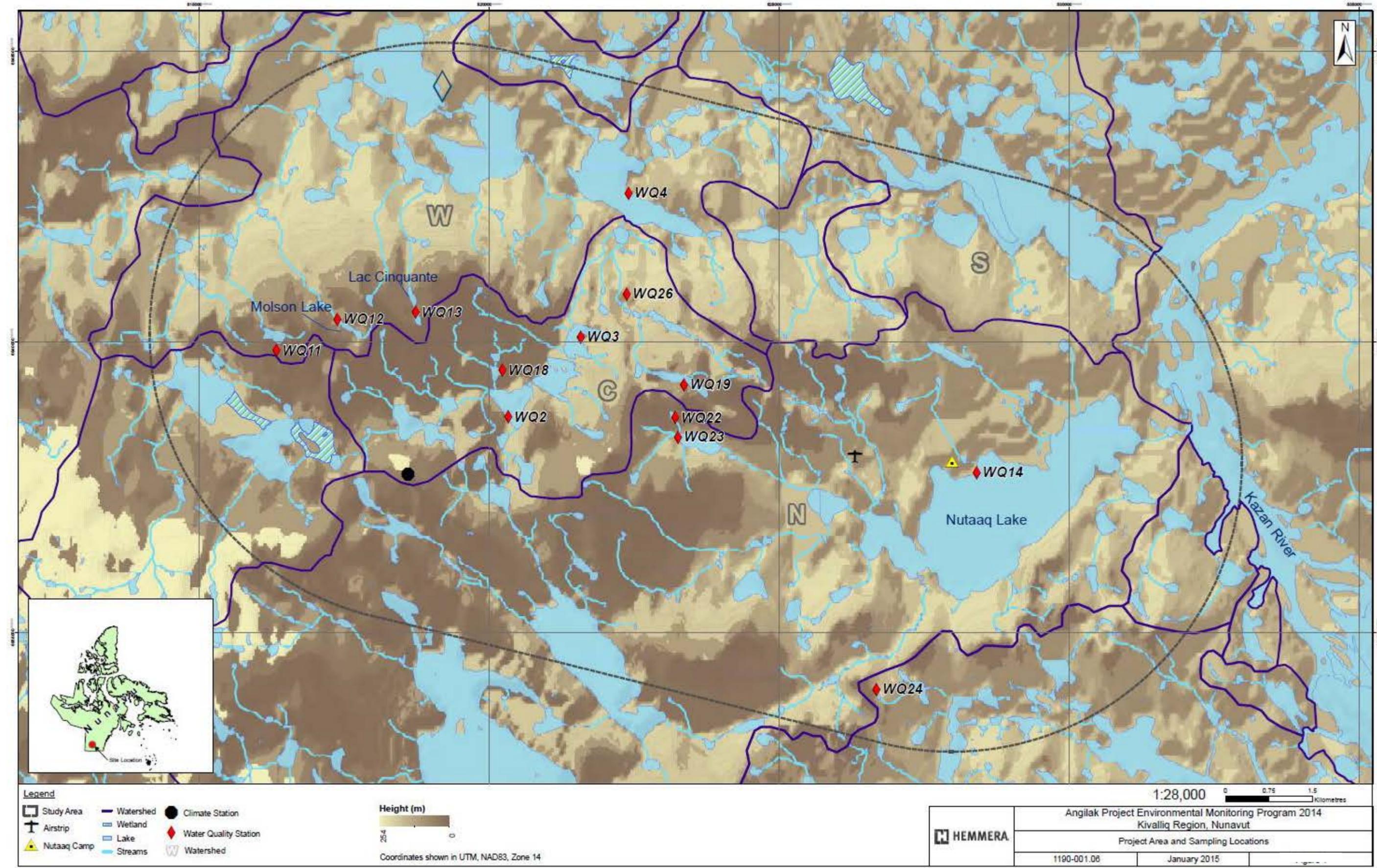
Wildlife

The overall objective of the wildlife program is to describe wildlife use of the study area and produce coarse-scale population estimates for valued ecosystem components (VECs) occurring in the study area. The 2014 exploration program consisted of geophysical surveying and soil sampling conducted from the end of August to mid-September by a crew of four. Drilling was not conducted in 2014. The short field season with limited staff was not conducive to conducting dedicated wildlife surveys, therefore the 2014 wildlife program consisted of logging incidental observations of all wildlife encountered and noting any listed species or high priority VEC known to occur in the study area.

A summary of the wildlife incidental observations reported in 2014 is as follows:

- 26 August, 2014: 1 adult caribou; grazing; observed within the Angilak Property by a soil sampler.
- 27 August, 2014: 5 adult caribou; grazing; observed within the Angilak Property by a soil sampler.
- 30 August, 2014: 3 grizzly bears (1 sow, 2 cubs) observed within the Angilak Property by soil samplers and helicopter pilot while in flight.
- 31 August, 2014: 2 adult wolves (one black, one white); observed approximately 13 km SW of Nutaaq Camp by soil samplers.
- 31 August, 2014: 8 adult caribou, observed by soil samplers approximately 13 km SW of Nutaaq Camp in proximity to the wolves (above).
- 2 September, 2014: 1 adult grizzly bear; traveling; observed within the Angilak Property by a soil sampler.

Figure 6: Baseline Environmental Monitoring Study Area



ENVIRONMENTAL CONSIDERATIONS

All employees and contractors working for Kivalliq Energy are made aware of the company's internal policies and procedures and are made familiar with the Terms and Conditions of the project's licences and permits. Every person arriving at the Angilak Project undergoes an orientation which includes information on health, safety and environmental responsibilities and stewardship.

The orientation and training includes but is not limited to: radiation safety mitigation, spill response, bear safety, environmental policies (including waste management), wildlife mitigation measures and the caribou protection measures. Employees, contractors and visitors are asked to review printed materials from the orientation and to sign-off that they have received the orientation, reviewed the information materials and that they understand their individual responsibilities.

Wildlife sightings are recorded in the field and at camp (**Appendix C**). All employees and contractors are required to report sightings to a designated employee who records them daily. Information is provided to field staff to recognize high profile VECs and species at risk that could potentially occur within the project area.

Wildlife incidents are reported immediately to the KIA and to the GN Wildlife Biologists. Contact information for emergency situations are hung on the wall of the office and provided in Kivalliq Energy's Wildlife and Environmental Mitigation Measures.

Water and aquatic life are protected. Water supply pumps and fuel are stored with secondary containment and fuel is stored a minimum of 31 metres from any water body, on level ground and/or down gradient whenever possible. Waterlines for drilling and domestic use are properly placed to minimize disturbance to the shoreline and substrate and are fitted with intake screens in accordance with the "Freshwater Intake End-of-Pipe Screen Guideline" prepared by the Department of Fisheries and Oceans. A copy of this guideline document is kept at the Nutaaq Camp field office and at the head office in Vancouver.

No wastes enter water bodies. The Nutaaq Camp grey water is filtered through a grease trap then drained through a weeping tile bed buried behind the dry. The area of the weeping bed is inspected daily for grey water release on surface.

Daily inspections are conducted around the camp includes fuel cache inspections. Secondary containment and spill kits are established at the main camp fuel cache, all fuelling locations (camp generator, helicopter pad and drill sites) and at heating stove drums located behind tents.

Water use was recorded for the domestic camp water. A summary of the water use by month is shown in Table 2. The complete water use data can be found in **Appendix D**.

Table 2: 2014 Water Use Summary

Nutaaq Camp Water Use	
Month	Volume (m³)
June	0.11
July	0.19
August	7.67
September	14.4
Average Daily	22.37
2014 Total	0.6

Regulatory Inspections and Reporting

One regulatory inspection was conducted during the 2014 work program at Angilak:

July 22, 2014 - AANDC Land Use Inspector - Christine Wilson

No issues were noted during inspections.

MITIGATION MEASURES

Caribou, Muskoxen and Other Wildlife

A one kilometre buffer is used as a measure of a safe distance for working in areas where migrating caribou are present. If migrating caribou and/or caribou cows and calves come within one kilometre of any work site, work activities must cease until the caribou have moved safely beyond the 1 kilometer buffer area.

Outside of the migration window, if caribou approach the work site, workers must remain out of sight where possible, must not approach the caribou and must cease activities that incidentally draw the attention of the caribou or cause them to flee.

Helicopter flights maintain a 300 metre altitude whenever possible. In areas where wildlife are observed helicopters are to maintain a minimum of 610 metre altitude. Absolutely no landings are allowed in areas where there are migrating caribou, caribou cows and/or calves and/or muskox nurse groups present. Helicopter and aircraft pilots are instructed that they are not to fly over the caribou calving grounds on their way to or from the project area.

Crossings – Between May 15 and September 1, no fuel cache is to be established, and no blasting is to occur within 10 kilometres of a “designated caribou crossing”. No drilling is to be conducted within 5 kilometres. Absolutely no activities are to act as a block or in any way cause a diversion to migration of caribou.

Airborne Geophysical Surveys –Prior to conducting any low-level airborne geophysical surveys the Kivalliq Inuit Association must be contacted and the following information must be provided;

dates of surveys, location of surveys, how long the surveys will take to complete. As well, the locally hired wildlife monitors are required to conduct a survey of the area to ensure that there is no wildlife present and will monitor for wildlife during the survey. If caribou and/or muskox are seen in the area, the geophysical survey are not to be flown until they have moved a safe distance (at least 1 kilometre) from the area to be surveyed.

A complete version of Kivalliq Energy's Wildlife and Environmental Mitigation Measures including Caribou Protection Measures can be found in **Appendix E**.

Bear and other Carnivores

Known carnivore dens are to be avoided. Any new dens discovered are to be reported to the regional wildlife biologist and the KIA and avoided.

If bears are present in the area, work is to cease until the bears have moved safely out of the area. All human-bear interactions or incidents are to be reported immediately.

Breeding and Nesting Birds

No eggs or nests are to be disturbed by any activities. If any employee or contractor comes across any active nests, they are to cease all activities immediately to ensure that the nest is not disturbed. Coordinates are to be recorded on the wildlife incidental observation log and these coordinates are to be reported to Environment Canada. Moving or disturbing the nest of a migratory bird is in contravention of the *Migratory Birds Convention Act*.

The peregrine falcon has been identified as species of Special Concern by COSEWIC. If any nests are found, a buffer must be maintained. A 1.5 kilometre buffer is recommended for the peregrine falcon. Any nests discovered will be recorded on the wildlife incidental observation log and the GPS coordinates provided to the applicable regulatory authorities and interested parties.

WASTE MANAGEMENT

The Nutaaq camp has an A400 Inciner8 incinerator at the south end of the camp compound 25 metres south of the camp generator shed. All permissible combustible waste including food waste was incinerated daily. Incinerator ash was collected in 205 litre steel drums with locked lids. Filled ash drums are staged at the incinerator until removed from site.

All food waste was stored such that it was not accessible to any wildlife prior to incineration. Recyclable plastics and cans were separated as produced and stored in bulk bags for removal from site. Kivalliq Energy has developed a waste management plan for the site which includes incineration guidelines. These guidelines were posted in the generator shed next to the incinerator for operator reference. By not incinerating items which lead to the release of dioxins, furans and mercury, Kivalliq Energy will be sure to comply with Canada Wide Standards. Non-combustible waste was collected in bulk bags for removal from site for appropriate approved disposal.

During the 2014 field season Nutaaq Camp was equipped with 4 Pacto units in a latrine building located adjacent to the dry/shower facility. The Pacto units collect waste in durable leakproof bags which are then burned in the incinerator. Ash from the Pacto units is collected in resealable 205 litre drums staged outside of the building. During the 2014 program, less than 1 barrel of ash was accumulated from camp and is awaiting transportation to Yellowknife in 2015 for appropriate approved disposal.

As a result of comments by AANDC inspectors regarding non-compliant disposal facilities in neighbouring communities, all non-combustible waste generated in 2014 was sorted and backhauled to Baker Lake where it was containerized in preparation for shipping to Montreal for appropriate approved disposal by KBL Environmental. This practice will continue until authorized waste disposal in Nunavut communities is approved. Kivalliq Energy has a registered Nunavut Waste Generator Number (#NUG100036) to haul all waste off site. A monthly summary of incinerated waste is provided in Table 3.

Table 3: 2014 Incinerator Summary

	Kitchen (# of garbage bags)	Camp (# of garbage bags)	Pacto (# of Pacto bags)
June	2	0	1
July	2	0	2
August	12	10	12
September	22	18	24
Total	38	28	39

FUEL INVENTORY

Kivalliq is permitted to cache 3000 drums of fuel on the Angilak Property. To accommodate this inventory the company has installed six 15' x 60' x 18" fuel berms manufactured by Raymac Industries in British Columbia (Raymac). Each berm is equipped with a RainDrain hydrocarbon filter. All fueling and staging areas are bermed (such as helicopter refueling stations and generator refueling stations) and have readily available emergency spill kits. There are spill trays under all the fuel drums behind the tents. The first two Raymac fuel berms were installed at the beginning of the 2010 field season and four additional berms were installed in April of 2012. The fuel cache fuel berms are located on the gravel deposit directly adjacent to the northwest of the Nutaaq Camp. The site offers an ideal smooth, sand covered, flat surface with no hazardous rocks or vegetation to perforate the berm membrane. The berms are lined with Spilfyter RailMat, a 3 ply hydrocarbon absorbent fabric from Pygmalion Environmental. Lengths of dimensional lumber were laid down upon the RailMat liner in a manner to support 4 rows fuel drums stored horizontally. Within the berms, drums are positioned with bungs at 3 o'clock and 9 o'clock in two rows of two running the full 60' length of the units as such that the bungs are visible for inspection at all times.

Empty fuel drums are removed from site regularly as backhaul cargo and are returned to Aviation Fuel Enterprises in Baker Lake (an authorized drum distributor) where they are cached to be reused for diesel fuel.

At the beginning of the 2014 program the Nutaaq Camp fuel cache contained contained 354 drums of diesel, 402 drums of jet fuel, 3 drums of gasoline and 9 propane cylinders which were left on site from the 2013 program.

The Ookpik Turbo Otter brought in additional drums of fuel. A total of 48 drums of jet fuel, 7 drums of diesel fuel and 4 propane cylinders were used over the course of the 2014 program. Refer to Table 4 for an inventory of fuel consumed over the course of the 2014 program.

At the end of the 2014 program the Nutaaq Camp fuel cache contained 285 drums of diesel, 350 drums of jet fuel, 3 drums of gasoline and 4 partially full propane cylinders. The majority of empty drums from the 2014 season were backhauled to Baker Lake. Approximately 100 empty drums remain on site to be removed by the Turbo Otter flights early in the 2015 season.

Table 4: Total Fuel Consumed in 2014

Fuel Type	Number of Drums/Cylinders
Jet	48
Diesel	7
Gasoline	0
Propane	4



Nutaaq Fuel Berms

FLIGHT SUMMARY

Exploration at Angilak relies upon aircraft support. Ookpik Aviation Ltd based out of Baker Lake, Nunavut provided regular fixed wing flights from Baker Lake into the Nutaaq Camp utilizing a Turbo Otter during winter and summer operations.

A total of 15 flights ferried employees, food, supplies, equipment and fuel into the Angilak Property between June 20 and September 15, 2014. All Ookpik flights utilized a gravel airstrip located 1.5 kilometres west of the Nutaaq Camp at 62 34' 20" N Lat., 98 29' 10" W Long.

A Bell 206B Jet Ranger helicopter contracted from Great Slave Helicopters out of Yellowknife, Northwest Territories, was used to support Kivalliq Energy's 2014 exploration program. The L4 helicopter arrived on August 23 and remained on site until September 15. The 206B flew a total of 46.3 hours. The helicopter flew primarily between the Nutaaq Camp and soil sampling grids on the Angilak Property. A tracking system on the helicopter records locational coordinates at 2 minute intervals (A digital record of these is available upon request).

RECLAMATION AND REMEDIATION

No drilling or other activities that may cause ground disturbance were conducted in 2014; therefore, reclamation was not required.

During a wind storm in the spring of 2014 a diesel fuel drum was knocked over at the Nutaaq Camp while the camp was unoccupied. The Nutaaq Camp is situated on a flat top sand esker approximately 8 metres above the surrounding tundra. Two workers sent to inspect the camp in June noted that tent W5 was lifted off its foundations by wind and moved 4 metres south. An adjacent fuel drum (containing P50 diesel) was knocked over. The impact cracked a fuel valve connection causing a portion of the fuel in the drum to leak. A surface stain of approximately 1 square metre was noted. The nearest water body, Nutaaq Lake, is approximately 200 metres west of the spill site. The spill did not enter any water body or drainage.

The spill was reported on June 23, 2014, within 24 hours of its discovery. Refer to **Appendix F** for NU Spill Report 14-234 and 2BE-ANG1318 Water Licence Inspection Form July 22, 2014. Contaminated soils were excavated to a depth of approx. 1.5 metres by workers using shovels. The contaminated soil has been contained in 10, 205 litre drums. The drums will be removed from site and disposed of at an authorized facility. The completed GN Spill Report Form and photos, along with the Water Use Licence Inspection Report (Christine Wilson, July 22, 2014) are attached. Remediation of the spill site by excavation of any remaining contaminated soils and related sampling will commence upon re-opening Nutaaq Camp in early summer 2015.

SOCIO-ECONOMIC IMPACTS AND BENEFITS

Kivalliq Energy is in the early stages of exploration and evaluation. The company and its management have demonstrated a strong commitment to Nunavut with the creation of Kivalliq Energy and its mandate to explore the Angilak Project in partnership with the Inuit. By entering into a uranium exploration agreement with NTI, Kivalliq Energy provides benefits to the Inuit as shareholders in the company, as well as to NTI having the option to collect royalties or participate directly in the project at a later date. Kivalliq Energy's agreement with NTI not only covers Inuit Owned Land, but extends the same benefits to a total 105,280.4 hectares that includes Crown claims held by Kivalliq Energy. Kivalliq Energy will hire locally whenever possible and have had multiple long term employees who have worked on the project since 2010. The company had one local hire from Arviat, Nunavut in 2014. Kivalliq Energy will utilize northern businesses and services wherever available. A list of contractors whose services were utilized in 2014 is provided in **Appendix G** .

COMMUNITY CONSULTATION

Kivalliq Energy is committed to the north and to northerners. Each year representatives from the company travel to communities adjacent to the project to provide updates and to discuss upcoming programs. Between April 14 and April 17, 2014, Andrew Berry, Kivalliq Energy Chief Operating Officer and Denise Lockett, Community and Government Relations Consultant, met with the communities of Rankin Inlet, Baker Lake, Whale Cove and Arviat to present Kivalliq Energy's planned 2014 exploration program on the Angilak Property. In addition, the company gave corporate and technical updates at the Nunavut Mining Symposium in Iqaluit on April 9, 2014. Kivalliq Energy's community consultation log is provided in **Appendix H**.

ARCHAEOLOGICAL, TRADITIONAL KNOWLEDGE

Any archaeological sites discovered during the course of exploration activities are handled with the utmost care. The location is recorded using a GPS and designated off limits to all workers. Disturbance is prohibited. Kivalliq Energy contracts Points West Heritage Consultants to document, survey and record, any archaeological sites on the Angilak Property. As part of the Nunavut Archaeologist Permit, the final reports are submitted to the KIA and chief archaeologist at the Department of Culture, Language, Elders and Youth.

Site protection measures apply to all archaeological sites. No new archaeological sites were identified in 2014 and no archaeological investigations were undertaken in 2014.

APPENDIX A

2014 LAND TENURE

Claim Number	Claim Name	Record Date	Anniversary Date	Area (Hectares)	NTS Sheet
K16138	DIP 01	8-Nov-12	8-Nov-18	1045.1	65 J06/11
K16139	DIP 02	8-Nov-12	8-Nov-18	1045.1	65 J06/11
K16148	KU 01	8-Nov-12	8-Nov-22	599.74	65 J10
K16149	KU 02	8-Nov-12	8-Nov-22	553.21	65 J10
K16150	KU 03	8-Nov-12	8-Nov-21	529.33	65 J10
K16151	KU 04	8-Nov-12	8-Nov-21	503.02	65 J10
K16152	KU 05	8-Nov-12	8-Nov-22	511.12	65J09/10
K16153	KU 06	8-Nov-12	8-Nov-20	1045.1	65J10/07
K16154	KU 07	8-Nov-12	8-Nov-20	1045.1	65J10/07
K16155	KU 08	8-Nov-12	8-Nov-20	1045.1	65J10/07
K16156	KU 09	8-Nov-12	8-Nov-22	1045.1	65 J10
K16157	KU 10	8-Nov-12	8-Nov-22	1045.1	65 J10
K16158	KU 11	8-Nov-12	8-Nov-22	550.78	65 J10
K16159	KU 12	8-Nov-12	8-Nov-15	550.78	65 J10
K16160	KU 13	8-Nov-12	8-Nov-15	648.31	65J10/07
K13343	KU 14	8-Nov-12	8-Nov-15	653.97	65J07
K13344	KU 15	8-Nov-12	8-Nov-15	1045.1	65J10/07
K13345	KU 16	8-Nov-12	8-Nov-15	1045.1	65J10/07
K13346	KU 17	8-Nov-12	8-Nov-22	1045.1	65J10/07
K13347	KU 18	8-Nov-12	8-Nov-20	1045.1	65J10/07
K13348	KU 19	8-Nov-12	8-Nov-21	1045.1	65J10/07
K13349	KU 20	8-Nov-12	8-Nov-20	1045.1	65J07
D000294	KU 21	8-Nov-12	8-Nov-21	1045.1	65J07
K13355	KV 01	26-Oct-09	26-Oct-18	1045.1	65 J11
K13354	KV 02	26-Oct-09	26-Oct-19	1045.1	65 J11
K13394	KV 03	26-Oct-09	26-Oct-19	1045.1	65 J11
K13369	KV 05	26-Oct-09	26-Oct-14	1045.1	65 J11
K13364	KV 06	26-Oct-09	26-Oct-15	1045.1	65 J11
K13363	KV 07	26-Oct-09	26-Oct-19	1045.1	65 J11
K13356	KV 08	26-Oct-09	26-Oct-19	1045.1	65 J11
K13353	KV 09	26-Oct-09	26-Oct-19	1045.1	65 J11
K13395	KV 10	26-Oct-09	26-Oct-19	1045.1	65 J11
K13371	KV 12	26-Oct-09	26-Oct-14	1045.1	65 J11
K13368	KV 13	26-Oct-09	26-Oct-14	1045.1	65 J11
K13365	KV 14	26-Oct-09	26-Oct-19	1045.1	65 J11
K13362	KV 15	26-Oct-09	26-Oct-19	1045.1	65 J11
K13352	KV 17	26-Oct-09	26-Oct-19	1045.1	65 J11
K13396	KV 18	26-Oct-09	26-Oct-19	1045.1	65 J11
K13372	KV 21	26-Oct-09	26-Oct-15	1045.1	65 J11
K13367	KV 22	26-Oct-09	26-Oct-19	1045.1	65 J11
K13366	KV 23	26-Oct-09	26-Oct-19	1045.1	65 J11
K13361	KV 24	26-Oct-09	26-Oct-19	1045.1	65 J11

Claim Number	Claim Name	Record Date	Anniversary Date	Area (Hectares)	NTS Sheet
K13358	KV 25	26-Oct-09	26-Oct-19	1045.1	65 J11
K13351	KV 26	26-Oct-09	26-Oct-18	1045.1	65 J11
K13360	KV 28	26-Oct-09	26-Oct-18	1045.1	65 J06/11
K13359	KV 29	26-Oct-09	26-Oct-19	1045.1	65 J06/11
K13399	KV 30	26-Oct-09	26-Oct-18	1045.1	65 J06/11
K13398	KV 31	26-Oct-09	26-Oct-15	1045.1	65 J06/11
K13410	KV 34	26-Oct-09	26-Oct-15	1045.1	65 J09
K13409	KV 35	26-Oct-09	26-Oct-15	1045.1	65 J09
K13393	KV 36	26-Oct-09	26-Oct-19	244.9	65 J10
K13392	KV 37	26-Oct-09	26-Oct-16	233.65	65 J10
K13420	KV 38	26-Oct-09	26-Oct-15	1045.1	65 J10
K13417	KV 39	26-Oct-09	26-Oct-15	1045.1	65 J09/10
K13411	KV 40	26-Oct-09	26-Oct-17	1045.1	65 J09
K13391	KV 43	26-Oct-09	26-Oct-15	671.04	65 J10
K13416	KV 44	26-Oct-09	26-Oct-15	594.16	65 J09/10
K13412	KV 45	26-Oct-09	26-Oct-19	666.93	65 J09
K13407	KV 46	26-Oct-09	26-Oct-18	1045.1	65 J09
K13413	KV 48	26-Oct-09	26-Oct-19	408.06	65 J09
K13414	KV 49	26-Oct-09	26-Oct-19	776.41	65 J09
K13406	KV 50	26-Oct-09	26-Oct-18	1045.1	65 J09
K13403	KV 51	26-Oct-09	26-Oct-15	1045.1	65 J09
K13415	KV 52	26-Oct-09	26-Oct-19	1045.1	65 J09
K13405	KV 53	26-Oct-09	26-Oct-16	1045.1	65 J09
K13404	KV 54	26-Oct-09	26-Oct-15	1045.1	65 J09
K13323	TAL 2	1-Nov-11	1-Nov-19	1029.52	65 J10
K13327	TAL 6	1-Nov-11	1-Nov-14	1040.45	65 J10/15
K13328	TAL 7	1-Nov-11	1-Nov-19	1027.5	65 J10/15
K13329	TAL 8	1-Nov-11	1-Nov-14	1038.83	65 J10/15
K13336	VGR 05	18-May-12	18-May-22	1045.1	65 J11
K13321	VK 01	13-Sep-11	13-Sep-21	1040.85	65 J10
F84324	YK 01	7-Mar-07	7-Mar-17	1045.1	65 J10
F84325	YK 02	7-Mar-07	7-Mar-16	1045.1	65 J10
F87646	YK 06	7-Mar-07	7-Mar-17	1045.1	65 J10
F87647	YK 07	7-Mar-07	7-Mar-17	1045.1	65 J10
F87648	YK 08	7-Mar-07	7-Mar-17	103.75	65 J10
F87651	YK 11	7-Mar-07	7-Mar-17	1045.1	65 J10
F87652	YK 12	7-Mar-07	7-Mar-17	1045.1	65 J10
F87653	YK 13	7-Mar-07	7-Mar-17	623.98	65 J10
F87654	YK 14	7-Mar-07	7-Mar-17	124.66	65 J10
F87658	YK 18	7-Mar-07	7-Mar-17	1045.1	65 J10
F87659	YK 19	7-Mar-07	7-Mar-17	1045.1	65 J10
F87660	YK 20	7-Mar-07	7-Mar-17	1045.1	65 J10

Claim Number	Claim Name	Record Date	Anniversary Date	Area (Hectares)	NTS Sheet
F87661	YK 21	7-Mar-07	7-Mar-17	49.5	65 J10
F87662	YK 22	7-Mar-07	7-Mar-17	1045.1	65 J10
F87663	YK 23	7-Mar-07	7-Mar-17	1045.1	65 J10
F87664	YK 24	7-Mar-07	7-Mar-17	555.31	65 J10
F87665	YK 25	7-Mar-07	7-Mar-17	1045.1	65 J10
F87666	YK 26	7-Mar-07	7-Mar-17	1045.1	65 J10
F87667	YK 27	7-Mar-07	7-Mar-17	409.49	65 J10
F87668	YK 28	7-Mar-07	7-Mar-17	1045.1	65 J10
F87669	YK 29	7-Mar-07	7-Mar-17	1045.1	65 J10
F87670	YK 30	7-Mar-07	7-Mar-17	629.73	65 J10
F87671	YK 31	7-Mar-07	7-Mar-17	669.8	65 J10
F87672	YK 32	7-Mar-07	7-Mar-17	749.95	65 J10
F87673	YK 33	7-Mar-07	7-Mar-17	824.37	65 J10
F87674	YK 34	7-Mar-07	7-Mar-15	898.79	65 J10
F87675	YK 35	7-Mar-07	7-Mar-17	1045.1	65 J10
F87676	YK 36	7-Mar-07	7-Mar-17	1045.1	65 J10
F87677	YK 37	7-Mar-07	7-Mar-17	1045.1	65 J10
F87678	YK 38	7-Mar-07	7-Mar-17	1045.1	65 J10
F87679	YK 39	7-Mar-07	7-Mar-17	1045.1	65 J10
F87680	YK 40	7-Mar-07	7-Mar-17	1045.1	65 J10
F87681	YK 41	7-Mar-07	7-Mar-16	1045.1	65 J10
F87682	YK 42	7-Mar-07	7-Mar-16	1045.1	65 J10
F87683	YK 43	7-Mar-07	7-Mar-17	1045.1	65 J10
IOL	RI-30	1-Apr-07	1-Apr-17	7386.00	65 J10/11
107 Claims				105,280.4	

APPENDIX B

2014 HEMMERA WATER QUALITY MONITORING SUMMARY

ANGILAK PROJECT

Surface Water Quality Report

2014 Summary

Prepared for:
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File: 1190-001.06
February 2015



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Appendix A Quality Assurance and Quality Control

Appendix B 2014 Baseline Data

1.0 SURFACE WATER QUALITY

In 2010, Hemmera initiated a water quality monitoring program to generate baseline water quality data in areas of active exploration in the vicinity of the Angilak Project. Sample sites were established on 20 representative water bodies (WQ1-WQ20). These same sites were re-sampled in the early spring and summer of 2011 and 2012. Over the next four sampling seasons the following sites were added or removed from the base program:

- 2012: an under ice program was initiated at all established sites, summer sampling omitted sites WQ6-WQ10 to focus on areas that were actively being explored.
- 2013: under ice sampling included WQ1-WQ5, WQ11-WQ20, WQ22, WQ23, and WQ25. Three new sites, J7WQ-1, J7WQ-002, and J7WQ-3 were sampled as part of the 2013 ice-based lakebed drilling initiative. Summer sampling included all under ice sites with the exception of the J series.
- In 2014: sampling included sites WQ2-WQ4, WQ11-WQ19, WQ22-WQ24, WQ26.

A database has been established that includes the results from these sampling events. The data obtained will represent background conditions, and data from samples J7WQ-1 to J7WQ-3 in 2013 represents conditions during and following on-ice drilling. The remainder of this report details the collection activities and results for 2014.

1.1 METHODS

August 2014 field sampling was completed on watercourses within the Project area to collect background water chemistry. A total of 13 sites were selected in 2014 based on areas of active exploration activity and the associated receiving waters (**Figure 1**). These sites were sampled August 31, 2014.

1.1.1 Water Quality Parameters and Samples

In situ parameters (pH, temperature, redox, dissolved oxygen, and specific conductivity) were measured using a YSI multiprobe meter with the probe placed directly in the associated water body. Readings were taken when the instrument stabilized.

Water grab samples were collected from the middle of the stream, when possible, perpendicular to the flow and while facing upstream. Lake and stream samples were collected 0.1 m below surface. Sample bottles arrived clean, negating the need for rinsing. Sampling containers and preservatives were obtained from ALS Vancouver and shipped to Baker Lake in August. If any bottles arrived without lids they were not used. All protocols followed the British Columbia Field Sampling Manual (2003). Dissolved metals and dissolved organic carbon samples were field filtered with a 0.45 µm filter to remove any particles and preserved with nitric acid and hydrochloric acid, respectively. Water samples were packed in ice, placed in coolers, travelled with field staff and were dropped off at ALS Vancouver for chemical analysis.

1.1.2 Laboratory Analysis for Surface Water Quality Monitoring

Water Samples were analysed for the following parameters:

- **Physical Parameters / Dissolved Anions:** conductivity, pH, temperature, total suspended solids (TSS), total dissolved solids (TDS), hardness, total acidity and alkalinity (as CaCO₃).
- **Nutrients:** ammonia nitrogen, nitrate, nitrite, dissolved organic carbon (DOC), ortho phosphate, total phosphorous.
- **Total and Dissolved Metals:** Aluminum, Antimony, Arsenic, Barium, Beryllium, Bismuth, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Mercury, Nickel, Phosphorus, Potassium, Selenium, Silicon, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Uranium, Vanadium, Zinc.

Metals analysis included the highest accuracy available at ALS using HR-ICPMS (High Resolution – Inductively Coupled Plasma Mass Spectrometry).

1.1.3 Quality Assurance (QA) and Quality Control (QC) Program

A comprehensive quality assurance/quality control (QA/QC) program was incorporated into the field program and laboratory components of the water quality program. QA/QC data is incorporated into **Table 1** and the certificate of analyses from ALS is presented in **Appendix A**. Duplicate field samples were collected to test the reproducibility of the samples, as well as laboratory precision. Duplicate samples were collected at a rate of 1:10, at WQ3 (duplicate = DS1-210814) and WQ13 (duplicate = DS2-310814).

1.2 RESULTS

Water quality data were compared to CCME (Canadian Council of Ministers of the Environment) Water Quality Guidelines for the Protection of Freshwater Aquatic Life (2007) as a general quality indicator. Results are shown in **Table 1**.

The Canadian Council of Ministers of the Environment (CCME) maintain that the “guidelines are generic national recommendations that are based on the most current scientific information available at the time of their derivation”; and furthermore note that they “do not directly consider site-specific factors that may influence their implementation”¹. The CCME document on Site Specific Guidance² reports that, “it might be necessary to modify water quality guidelines to account for natural site conditions”. Natural conditions can only be established through the collection of baseline data, over a number of years.

¹ A Protocol for the Derivation of Water Quality Guidelines for the Protection of Aquatic Life. Part 1: General Overview, 2007.

² Canadian Water Quality Guidelines for the Protection of Aquatic Life. Site Specific Guidance. 2003.

1.2.1 Annual Monitoring Program

In 2014, field pH values from all sites at Angilak averaged 7.15 (standard deviation=0.37), and ranged between 6.58 to 7.79. This water is neutral (pH values of 7), and is within the ideal range tolerated by aquatic organisms. Dissolved oxygen (DO) concentrations averaged 10 mg/L (standard deviation = 2.0 mg/L) over all sites. DO levels ranged from 3.65 mg/L (WQ26) to 11.58 mg/L (WQ24). A DO level of 3.65 mg/L at a temperature of 4.82 C seems very low and is likely reflecting the abundance of plant life in this small seep area. The average falls within the CCME guidelines (2007) for all life stages of cold-water biota (6.5 mg/L) and is slightly above early life stages guidance in cold water (9.5 mg/L). Conductivity measures the ability of water to conduct a current, and is affected by the presence of ions in the water. The greatest average concentration of TDS (total dissolved solids) was found at WQ26 (269 mg/L) as was conductivity (372 $\mu\text{s}/\text{cm}$). Overall conductivity ranged between 36.8 $\mu\text{s}/\text{cm}$ (WQ3) and 372 $\mu\text{s}/\text{cm}$.

Total metals data were compared to CCME freshwater aquatic life guidelines. Concentrations of aluminum (WQ24), copper (WQ22, WQ24, and WQ26), iron (WQ24), and uranium (WQ26) exceeded the freshwater aquatic life guidelines. It was anticipated that uranium would be elevated at WQ26, a naturally occurring radioactive water source that is being monitored for that purpose. For specific sites and metals that exceeded guidelines please refer to **Table 1**.

We sincerely appreciate the opportunity to have assisted you with this project and if there are any questions, please do not hesitate to contact the undersigned by phone at 604.669.0424.

Report prepared by:
Hemmera Envirochem Inc.

Report peer reviewed by:
Hemmera Envirochem Inc.

Debbie Bryant, M.Sc.
Environmental Scientist

Michael McLeay, M.A.Sc., R.P.Bio., CSAP
Senior Environmental Scientist

2.0 REFERENCES

Canadian Council of Ministers of the Environment (CCME). 2007. A protocol for the derivation of water quality guidelines for the protection of aquatic life 2007. In: Canadian environmental quality guidelines, 1999, Canadian Council of Ministers of the Environment, 1999, Winnipeg.

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Canadian Water Quality Guideline for the Protection of Aquatic Life: Summary Table. Updated December 2012. In: Canadian Environmental Quality Guidelines, 1999, Canadian Council of Ministers of the Environment.

Field Sampling Manual. 2003. Ministry of Water, Land and Air Protection. Province of British Columbia. British Columbia Ministry of the Environment (BC MoE). 2003. Ambient Freshwater and Effluent Sampling Manual. Resources Information Standing Committee, Ministry of the Environment. Victoria, BC.

3.0 STATEMENT OF LIMITATIONS

This report was prepared by Hemmera Envirochem Inc. (“Hemmera”), based on fieldwork conducted by Hemmera, for the sole benefit and exclusive use of Kivalliq Energy Corporation. The material in it reflects Hemmera’s best judgment in light of the information available to it at the time of preparing this Report. Any use that a third party makes of this Report, or any reliance on or decision made based on it, is the responsibility of such third parties. Hemmera accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions taken based on this Report.

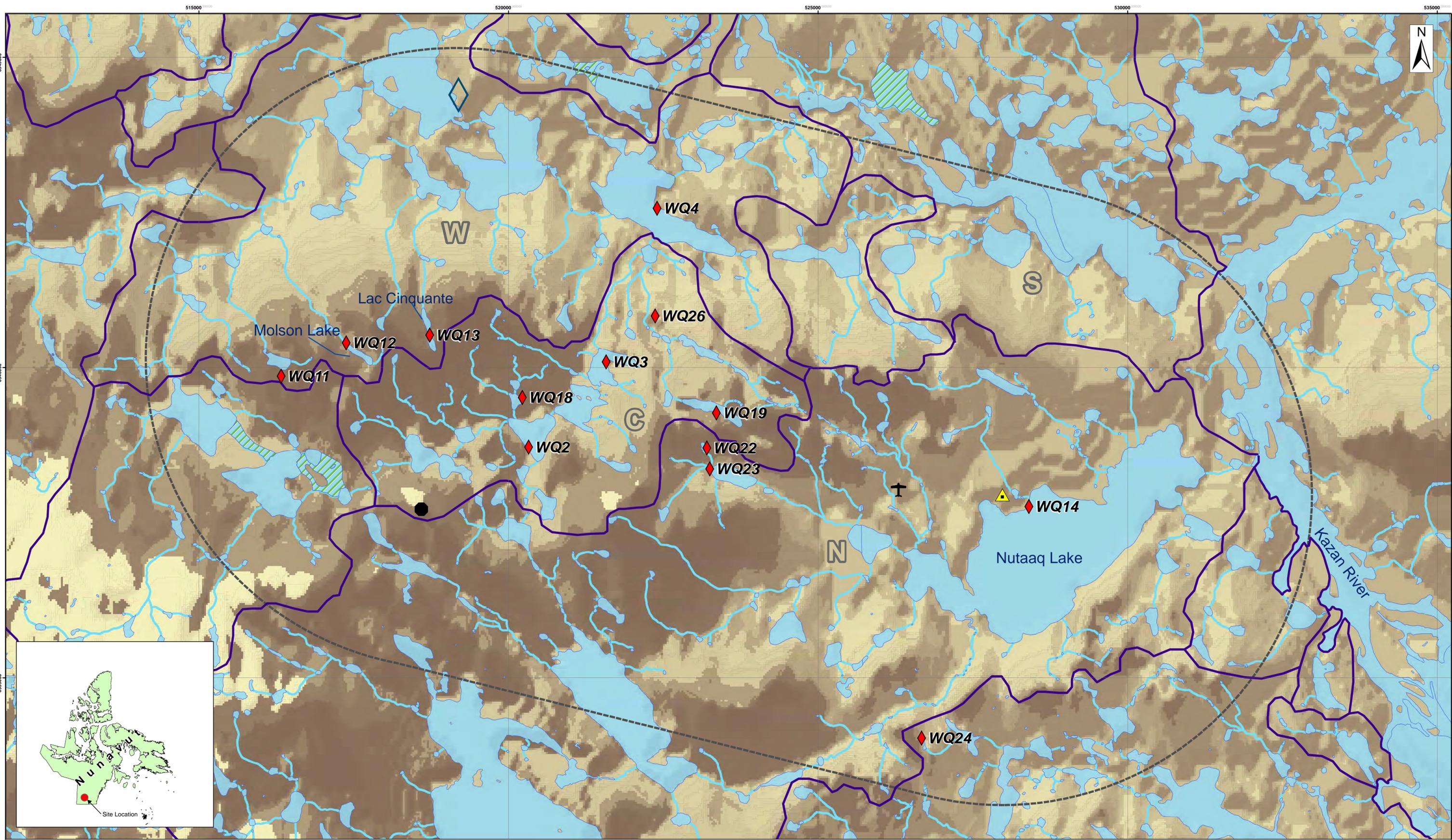
Hemmera has performed the work as described above and made the findings and conclusions set out in this Report in a manner consistent with the level of care and skill normally exercised by members of the environmental science profession practicing under similar conditions at the time the work was performed.

This Report represents a reasonable review of the information available to Hemmera within the established Scope, work schedule and budgetary constraints. It is possible that the levels of contamination or hazardous materials may vary across the Site, and hence currently unrecognised contamination or potentially hazardous materials may exist at the Site. No warranty, expressed or implied, is given concerning the presence or level of contamination on the Site, except as specifically noted in this Report. The conclusions and recommendations contained in this Report are based upon applicable legislation existing at the time the Report was drafted. Any changes in the legislation may alter the conclusions and/or recommendations contained in the Report. Regulatory implications discussed in this Report were based on the applicable legislation existing at the time this Report was written.

In preparing this Report, Hemmera has relied in good faith on information provided by others as noted in this Report, and has assumed that the information provided by those individuals is both factual and accurate. Hemmera accepts no responsibility for any deficiency, misstatement or inaccuracy in this Report resulting from the information provided by those individuals.

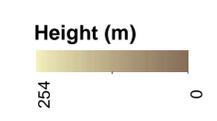
The liability of Hemmera to Kivalliq Energy Corporation shall be limited to injury or loss caused by the negligent acts of Hemmera. The total aggregate liability of Hemmera related to this agreement shall not exceed the lesser of the actual damages incurred, or the total fee of Hemmera for services rendered on this project.

FIGURE



Legend

- Study Area
- Watershed
- Climate Station
- Wetland
- Lake
- Water Quality Station
- Streams
- Watershed
- Airstrip
- Nutaq Camp



Coordinates shown in UTM, NAD83, Zone 14

1:28,000

	Angilak Project Environmental Monitoring Program 2014 Kivalliq Region, Nunavut		
	Project Area and Sampling Locations		
	1190-001.06	January 2015	Figure 1

TABLE

**Table 1
Analytical Results**

Parameter	Location ID:	Angilak 2014										Angilak 2014						
	Sample ID:	WQ2	WQ3		RPD%	WQ4	WQ11	WQ12	WQ13		RPD%	WQ14	WQ18	WQ19	WQ22	WQ23	WQ24	WQ26
	Date Sampled:	31/08/2014	31/08/2014	DS1-310814		31/08/2014	31/08/2014	31/08/2014	31/08/2014	DS2-310814		31/08/2014	31/08/2014	31/08/2014	31/08/2014	31/08/2014	31/08/2014	31/08/2014
Plant Available Nutrients																		
Potassium (K)	-	<2000	<2000	<2000		<2000	<2000	<2000	<2000	<2000		<2000	<2000	<2000	<2000	<2000	<2000	2900
Location Info																		
Dissolved Metals Filtration Location (text)	-	FIELD	FIELD	FIELD		FIELD	FIELD	FIELD	FIELD	FIELD		FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD
Sample Info																		
Lab's Sample ID (text)	-	L1511001-1, WQ2	L1511001-2, WQ3	L1511001-14, DS1-310814		L1511001-3, WQ4	L1511001-4, WQ11	L1511001-5, WQ12	L1511001-6, WQ13	L1511001-15, DS2-310814		L1511001-7, WQ14	L1511001-8, WQ18	L1511001-9, WQ19	L1511001-10, WQ22	L1511001-11, WQ23	L1511001-12, WQ24	L1511001-13, WQ26
Duplicate Of (text)	-	-	-	WQ3		-	-	-	-	WQ13		-	-	-	-	-	-	-
Sample Time, Start (text)	-	12:00	13:10	12:00		14:20	14:50	15:20	15:50	12:00		19:00	12:30	18:15	17:50	18:40	17:20	16:50
Field Tests																		
pH	6.5-9 ⁵	7.19	7	7	0%	7.11	6.87	6.7	6.58	6.58	0%	7.79	7.17	7.46	7.51	7.35	7.53	6.72
Conductivity (uS/cm)	-	57	38.6	39.1	1%	36.8	61.6	63.4	99.3	-	-	38.6	102	40.3	67.1	37.2	140	372
Oxidation Reduction Potential (mV)	-	91	101.9	101.9	0%	107	144.2	130	133.1	133.1	0%	74	81.9	112	98.8	114.5	78.8	186.2
Oxygen, Dissolved (mg/L)	9.5	11.05	11	11	0%	10.76	9.52	10.76	10.33	10.33	0%	10.88	10.84	10.22	10.64	10.09	11.58	3.65
Temperature (°C)	-	11.03	11.17	11.17	0%	11.53	10.58	11.4	9.82	9.82	0%	11.36	10.32	10.54	10.89	11.72	11.13	4.82
Physical Tests																		
pH (Lab)	6.5-9 ⁵	7.69	7.51	7.52	0%	7.43	7.69	7.63	7.89	-	-	7.54	7.94	7.54	7.7	7.49	7.91	7.83
Acidity (as CaCO3)	-	1500	1500	1400	7%	1500	1800	2000	1600	-	-	1400	1600	1500	1700	1500	3300	6800
Alkalinity, Total (CaCO3) (mg/L)	-	27	18	18.1	1%	17.5	31.6	32.2	48	-	-	17.6	56	18.7	31.8	16.6	56.3	129
EC (uS/cm) (Lab)	-	44	30	30		29	49	48	69	69	0%	260	76	30	50	29	143	235
Hardness, Total (CaCO3) (mg/L)	-	28.6	19.6	19.2	2%	18.7	34	34.1	54	-	-	27.6	56	19.5	36.7	18.6	73.1	200
Total Dissolved Solids (mg/L)	-	49	39	48	21%	31	55	71	84	-	-	37	86	39	65	42	117	269
Total Suspended Solids (mg/L)	See guideline	<3.000	<3.000	<3.000		<3.000	<3.000	3.9	<3.000	-	-	<3.000	<3.000	<3.000	3.1	<3.000	12.6	<3.000
Dissolved Inorganics																		
Phosphate, Ortho (mg/L)	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Inorganics																		
Bromide (mg/L)	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloride (mg/L)	120	0.77	<0.500	<0.500	-	<0.500	<0.500	<0.500	1.79	-	-	<0.500	0.53	<0.500	<0.500	<0.500	<0.500	<0.500
Fluoride (mg/L)	0.12	0.085	0.078	0.079	1%	0.072	0.126	0.16	0.185	-	-	0.068	0.144	0.085	0.107	0.083	0.113	0.251
Nitrate (mg/L)	13	<0.005	<0.005	<0.005	-	<0.005	0.0052	<0.005	0.0056	-	-	0.117	<0.005	0.017	<0.005	<0.005	0.13	0.176
Nitrate and Nitrite (mg/L)	-	<0.0051	<0.0051	<0.0051	-	<0.0051	0.0052	<0.0051	0.0056	-	-	0.117	<0.0051	0.017	<0.0051	<0.0051	0.13	0.178
Nitrite (mg/L)	0.06	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Sulfate (SO4) (mg/L)	-	<0.500	<0.500	<0.500	-	<0.500	<0.500	<0.500	0.59	-	-	<0.500	<0.500	<0.500	1.03	0.5	15.1	65.9
Total Inorganics																		
Ammonia (mg/L)	0.021-231 ⁷	<0.005	<0.005	0.0055	-	<0.005	0.0104	0.0083	0.0132	0.0123	7%	<0.005	0.0093	<0.005	0.0114	<0.005	0.0079	0.0088
Cyanide (mg/L)	0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005
Phosphorus (mg/L)	<4 ¹³	<0.300	<0.300	<0.300	-	<0.300	<0.300	<0.300	<0.300	<0.300	-	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Sodium (Na)	-	<2000	<2000	<2000	-	<2000	<2000	<2000	<2000	<2000	-	<2000	<2000	<2000	<2000	<2000	<2000	3300
Organics																		
Dissolved Organic Carbon (mg/L)	-	5.92	6.28	6.25	0%	5.05	7.37	11.2	16.9	16.8	1%	5.2	13.1	5.67	14.8	6.94	14.7	10.7

**Table 1
Analytical Results**

Parameter	Location ID: Sample ID: Date Sampled:	Angilak 2014										Angilak 2014							
		WQ2		WQ3		RPD%	WQ4	WQ11	WQ12	WQ13		RPD%	WQ14	WQ18	WQ19	WQ22	WQ23	WQ24	WQ26
		31/08/2014	31/08/2014	DS1-310814	31/08/2014		31/08/2014	31/08/2014	31/08/2014	31/08/2014	DS2-310814		31/08/2014	31/08/2014	31/08/2014	31/08/2014	31/08/2014	31/08/2014	31/08/2014
	CCME FAL ^{3,4}																		
Dissolved Metals																			
Aluminum	5-100 ⁸	2.3	7.3	7	4%	4.1	3.5	6.3	15.2	15.6	3%	12.9	4	2.5	38.6	7.7	21.6	18.8	
Antimony	-	0.014	0.019	0.019	0%	0.012	<0.01	0.016	0.028	0.029	4%	0.192	0.019	0.014	0.019	0.015	0.021	0.297	
Arsenic	5	0.132	0.153	0.155	1%	0.093	0.119	0.189	0.363	0.384	6%	0.147	0.196	0.132	0.263	0.113	0.223	0.281	
Barium	-	76.2	57.1	58.2	2%	52.7	85.5	105	153	151	1%	46.6	143	49.1	74.7	41.9	86	34.2	
Beryllium	-	<0.005	0.0056	0.0053	6%	<0.005	<0.005	0.0098	0.0168	0.0184	9%	<0.005	0.0074	<0.005	0.0132	0.0054	0.01	0.0155	
Bismuth	-	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Boron	1500	<5	<5	6.4	-	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5	7.3	
Cadmium	0.09 ⁹	<0.005	0.0189	<0.005	-	<0.005	<0.005	0.0062	<0.005	<0.005	-	0.356	<0.005	<0.005	0.0063	<0.005	<0.005	<0.04	
Calcium	-	6570	4420	4330	2%	4210	8370	7420	11900	11800	1%	7580	12900	4660	9640	4180	22300	68500	
Cesium	-	<0.005	<0.005	<0.005	-	<0.005	0.0059	0.0052	0.0053	0.0052	2%	<0.005	0.0058	<0.005	<0.005	<0.005	0.0074	0.0771	
Chromium	8.9 ¹⁴	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Cobalt	-	<0.05	<0.05	<0.05	-	<0.05	<0.05	0.088	0.06	0.065	8%	<0.05	<0.05	<0.05	0.065	<0.05	0.05	0.632	
Copper	2-4 ¹⁰	0.65	0.71	0.62	14%	0.44	0.77	0.67	1.47	1.51	3%	1.91	0.56	0.47	2.24	0.82	3.83	36.7	
Gallium	-	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Iron	300	<30	30	<30	-	<30	40	136	113	119	5%	<30	85	30	87	<30	80	34	
Lead	1-7 ¹¹	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	0.286	<0.05	<0.05	<0.05	<0.05	<0.05	0.454	
Lithium	-	0.73	0.75	0.57	27%	0.58	0.8	1.74	2.64	2.5	5%	0.59	1.45	0.61	0.95	0.68	1.02	2.96	
Magnesium	-	2970	2070	2040	1%	1990	3170	3790	5880	5860	0%	2100	5770	1910	3070	1980	4250	7090	
Manganese	-	2.52	2.04	2.07	1%	0.79	2.85	9.39	3.39	3.46	2%	4.83	2.76	0.84	4.51	3.49	4.4	123	
Mercury	0.026	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Molybdenum	73	0.151	0.142	0.142	0%	0.077	0.223	0.093	0.47	0.467	1%	1.27	0.322	0.08	0.143	0.065	0.313	41.7	
Nickel	25-150 ¹²	0.57	0.65	0.62	5%	0.41	0.55	1.18	1.84	1.85	1%	0.67	1.06	0.41	1.43	0.76	1.36	1.54	
Phosphorus (mg/L)	-	<0.300	<0.300	<0.300	-	<0.300	<0.300	<0.300	<0.300	<0.300	-	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	
Potassium	-	<2000	<2000	<2000	-	<2000	<2000	<2000	<2000	<2000	-	<2000	<2000	<2000	<2000	<2000	<2000	2700	
Rhenium	-	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.223	
Rubidium	-	0.903	0.997	0.988	1%	0.838	0.802	0.979	1.68	1.65	2%	1.03	0.96	0.923	0.596	0.933	1.45	2.89	
Selenium	1	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.23	
Silicon	-	367	283	279	1%	169	515	957	533	527	1%	248	1200	194	759	518	731	4430	
Silver	0.1	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0066	
Sodium	-	<2000	<2000	<2000	-	<2000	<2000	<2000	<2000	<2000	-	<2000	<2000	<2000	<2000	<2000	<2000	3100	
Strontium	-	78.8	54.8	55.7	2%	52.4	85	113	142	143	1%	68.9	120	47.7	71.3	45.8	94.2	286	
Tellurium	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.158	
Thallium	0.8	<0.002	<0.002	0.0032	-	<0.002	<0.002	0.0023	0.0041	0.0058	34%	<0.002	<0.002	<0.002	0.0032	0.0032	0.0073	0.138	
Thorium	-	<0.005	0.0095	0.009	5%	0.0059	<0.005	0.0161	0.0286	0.0302	5%	0.009	0.0097	<0.005	0.053	0.0141	0.0359	0.0999	
Tin	-	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	0.25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Titanium	-	<0.2	<0.2	<0.2	-	<0.2	<0.2	0.2	0.35	0.37	6%	<0.2	<0.2	<0.2	0.38	<0.2	0.3	0.64	
Tungsten	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	0.014	0.015	7%	0.09	<0.01	<0.01	<0.01	<0.01	<0.01	0.064	
Uranium	15	0.588	0.107	0.104	3%	0.0832	0.237	0.114	0.398	0.401	1%	0.0661	0.496	0.044	0.451	0.0576	0.522	629	
Vanadium	-	0.066	0.083	0.082	1%	0.051	0.079	0.114	0.226	0.229	1%	0.077	0.125	<0.05	0.151	0.06	0.103	0.099	
Yttrium	-	0.0148	0.0297	0.0288	3%	0.018	0.0191	0.0448	0.0805	0.0822	2%	0.0395	0.0342	0.0106	0.123	0.0457	0.119	0.633	
Zinc	30	2.8	14.2	3.5	121%	1.7	1.6	3.2	2.6	2.3	12%	19.4	4.2	5.5	4.5	1.6	1	4.6	
Zirconium	-	<0.05	<0.05	<0.05	-	<0.05	<0.05	0.112	0.269	0.267	1%	0.06	0.098	<0.05	0.346	0.099	0.224	1.12	

**Table 1
Analytical Results**

Parameter	Location ID:	Angilak 2014										Angilak 2014						
	Sample ID:	WQ2	WQ3		RPD%	WQ4	WQ11	WQ12	WQ13		RPD%	WQ14	WQ18	WQ19	WQ22	WQ23	WQ24	WQ26
	Date Sampled:	31/08/2014	31/08/2014	DS1-310814		31/08/2014	31/08/2014	31/08/2014	31/08/2014	DS2-310814		31/08/2014	31/08/2014	31/08/2014	31/08/2014	31/08/2014	31/08/2014	31/08/2014
	CCME FAL^{3,4}																	
Total Metals																		
Aluminum	5-100 ⁸	7.8	15.1	14.8	2%	9.5	6	12.2	57.3	89	43%	19.7	6.2	5.5	51.5	13.2	267	24.9
Antimony	-	0.044	0.026	<0.04	-	0.025	0.033	<0.05	<0.05	<0.05	-	<0.04	<0.05	<0.04	<0.04	<0.03	<0.04	0.281
Arsenic	5	0.131	0.156	0.125	22%	0.095	0.113	0.192	0.304	0.381	22%	0.112	0.166	0.116	0.21	0.101	0.208	0.241
Barium	-	82.3	60.7	60.2	1%	52	84.3	111	143	167	15%	45.9	135	54	70	47.1	92.7	39.5
Beryllium	-	<0.005	0.0062	0.0054	14%	<0.005	<0.005	0.0095	0.0201	0.0258	25%	<0.005	0.0073	<0.005	0.0139	0.0058	0.036	0.0151
Bismuth	-	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Boron	1500	7	7.1	<10	-	6.4	<5	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<15
Cadmium	0.09 ⁹	0.0751	<0.005	<0.005	-	<0.005	0.0156	0.0207	0.0091	<0.005	-	0.0088	0.0116	0.0052	0.0146	0.0068	0.0167	<0.04
Calcium	-	6620	4380	4360	0%	4270	8260	7410	11100	11600	4%	4190	12200	4570	9270	4100	21400	68500
Cesium	-	0.0062	0.0056	0.0067	18%	0.0053	0.0075	0.0074	0.0128	0.0197	42%	0.0065	0.007	0.0055	0.006	0.0055	0.0556	0.0873
Chromium	8.9 ¹⁴	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	0.59	-	<0.5	<0.5	<0.5	<0.5	<0.5	0.86	<0.5
Cobalt	-	<0.05	<0.05	<0.05	-	<0.05	<0.05	0.125	0.092	0.119	26%	<0.05	<0.05	<0.05	0.086	<0.05	0.193	0.688
Copper	2-4 ¹⁰	1.07	0.67	0.67	0%	<0.5	1.25	0.96	1.69	1.7	1%	0.59	0.66	<0.5	2.37	0.95	5.5	34.7
Gallium	-	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	0.062	<0.05
Iron	300	67	83	80	4%	57	65	265	220	273	22%	53	110	89	156	77	487	41
Lead	1-7 ¹¹	0.125	<0.05	<0.05	-	<0.05	<0.05	0.068	0.148	0.168	13%	<0.05	<0.05	<0.05	0.057	<0.05	0.382	0.593
Lithium	-	1.19	0.83	0.67	21%	0.54	1	2.01	2.81	2.85	1%	0.71	1.54	0.74	1.06	0.73	1.31	3.34
Magnesium	-	2990	2060	2050	0%	2030	3140	3580	5550	5770	4%	2020	5440	1890	2980	1950	4110	7200
Manganese	-	12.4	12.1	12.5	3%	5.41	3.92	18.2	11.2	13.5	19%	6.44	4.75	9.61	15	12.1	14	131
Mercury	0.026	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Molybdenum	73	0.194	0.175	0.182	4%	0.096	0.244	0.413	0.422	0.494	16%	0.109	0.336	0.107	0.158	0.081	0.344	44.4
Nickel	25-150 ¹²	0.76	0.57	0.6	5%	0.4	0.59	1.23	1.94	1.99	3%	0.43	0.99	0.41	1.36	0.74	2	1.65
Rhenium	-	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.226
Rubidium	-	1.03	1.04	1.04	0%	0.887	0.845	0.96	1.73	1.99	14%	1.01	0.933	0.951	0.644	0.96	2.09	3.18
Selenium	1	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Silicon	-	399	309	295	5%	195	512	933	585	689	16%	275	1150	204	752	529	1090	4490
Silver	0.1	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	0.0134	0.0139
Strontium	-	89.7	57.4	59.2	3%	54.8	92.9	110	142	154	8%	66.6	121	50.7	73.1	43.2	93.1	297
Tellurium	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.424
Thallium	0.8	<0.002	<0.002	0.0022	-	<0.002	<0.002	<0.002	0.0041	0.0069	51%	<0.002	<0.002	<0.002	0.0029	0.0023	0.0115	0.13
Thorium	-	0.0065	0.0152	0.0256	51%	0.0106	0.0068	0.0188	0.0412	0.0667	47%	0.0153	0.0106	0.0056	0.0481	0.0186	0.151	0.124
Tin	-	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Titanium	-	0.23	0.34	0.38	11%	0.21	<0.2	0.37	2.22	3.6	47%	0.46	<0.2	<0.2	0.79	0.21	6.93	0.85
Tungsten	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	0.05	0.017	0.018	6%	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.066
Uranium	15	0.648	0.115	0.12	4%	0.0944	0.271	0.119	0.397	0.471	17%	0.0674	0.457	0.0488	0.483	0.0591	0.601	597
Vanadium	-	0.086	0.116	0.122	5%	0.067	0.095	0.163	0.344	0.434	23%	0.086	0.123	<0.05	0.18	0.08	0.424	0.107
Yttrium	-	0.0217	0.0383	0.0373	3%	0.0258	0.0215	0.0553	0.123	0.17	32%	0.0377	0.036	0.0153	0.141	0.0551	0.532	0.644
Zinc	30	3.4	5.7	<3	-	3.4	5.1	7.8	4.2	4.7	11%	3.2	5.8	<3	9.4	3.7	5.2	18.8
Zirconium	-	<0.05	<0.05	0.062	-	<0.05	<0.05	<0.05	0.09	0.236	90%	<0.05	<0.05	<0.05	0.117	0.07	0.384	1.11

Notes for Table 1

- (1) All values are reported as µg/L unless otherwise noted
- (2) - = No standard or not analyzed
- (3) CCME = Canadian Council of Ministers of the Environment, Canadian Environmental Quality Guidelines, 1999, updated to November 30, 2011
- (4) CCME FAL = Chapter 4, Canadian Water Quality Guidelines for the Protection of Aquatic Life, Freshwater, updated to November 30, 2011
- (5) CCME FAL stipulates pH not < 6.5 and not > 9
- (6) Guideline note n: Dissolved oxygen for warm-water biota, other life stages
- (7) Ammonia varies with pH and temperature for CCME FAL; see the CCME ammonia fact sheet for details regarding the applicable criteria, ammonia-NH₃ versus total ammonia-N, and other usage guidelines. Used the 0.8 conversion factor described in guidance document (2000).
- (8) Aluminum varies with pH as follows for CCME FAL:
 - 5 if pH < 6.5
 - 100 if pH ≥ 6.5
- (9) Cadmium varies with Hardness in mg/L as follows for CCME FAL: $10^{0.83[\log(\text{hardness})] - 2.46}$; the following calculated criteria have been applied conservatively: 0.09 µg/L if H < 50 mg/L mg/L Changed January, 2014.
µg/L if H ≥ 46 mg/L
- (10) Copper varies with Hardness in mg/L as follows for CCME FAL:
 - 2 if H < 120
 - 3 if H ≥ 120 and H < 180
 - 4 if H ≥ 180
- (11) Lead varies with Hardness in mg/L as follows for CCME FAL:
 - 1 if H < 60
 - 2 if H ≥ 60 and H < 120
 - 4 if H ≥ 120 and H < 180
 - 7 if H ≥ 180
- (12) Nickel varies with Hardness in mg/L as follows for CCME FAL:
 - 25 if H < 60
 - 65 if H ≥ 60 and H < 120
 - 110 if H ≥ 120 and H < 180
 - 150 if H ≥ 180
- (13) Canadian Guidance Framework for Phosphorus is for developing phosphorus guidelines (does not provide guidance on other freshwater nutrients). It provides Trigger Ranges for Total Phosphorus (µg/L) (see Guidance Framework for Phosphorus factsheet): ultra-oligotrophic < 4

APPENDIX A
QA/QC

QUALITY ASSURANCE (QA) AND QUALITY CONTROL (QC) PROGRAM

Quality assurance criteria for field and laboratory duplicates are ALS Data Quality Objective (DQO) for precision. These state that the Relative Percent Difference (RPD) needs to be within $20\% + \sqrt{2}$ multiplied by the detection limit (DL). The square root of two multiplied by the DL is added to the RPD in order to address variability of the two results near the detection limit, which can have small absolute differences but large relative differences. The DQO for a parameter is met if:

$$\text{RPD} < 20\% + \sqrt{2} * \text{DL}$$

where

$$\text{RPD} = |\text{Result1} - \text{Result2}| / [(\text{Result1} + \text{Result2})/2]$$

This formula takes into account values that are close to the detection limit and, therefore, have large relative percent differences when the absolute difference is small.

Two duplicates were collected at WQ3 and WQ13. Table 1 illustrates % RPD greater than 20%, between samples and duplicates, as highlighted in light grey. There were instances of RPDs being greater than 20% between WQ3 and the duplicate (DS1-310814) and WQ13 and the duplicate (DS2-310831) for aluminum, beryllium, cesium, cobalt, iron, TSS, lithium, thallium, zinc, antimony, thorium, iron, manganese, and zinc and zirconium. Overall the data is fine; however for the analytes that had greater than 20% RPD there should be a recognition that results reported in **Table 1** have some uncertainty.

It should also be noted that there were instances where dissolved concentrations were greater than total concentrations. WQ14 had multiple instances of dissolved metal concentrations being greater than total concentrations. In cases where dissolved parameters make up the majority of a sample this type of discrepancy often occurs.

Variability in the values, as reflected in the RPD and the total versus dissolved values may reflect: 1) Total and dissolved samples were separate discrete field samples (i.e. not splits of a homogenized sample) and there could have been temporal or spatial variability in site conditions; 2) lab variability/precision; 3) possibly cross-contamination during filtering (unlikely).

APPENDIX B
2014 Baseline Data



HEMMERA ENVIROCHEM INC.
ATTN: Debbie Bryant
250 - 1380 Burrard Street
Vancouver BC V6Z 2H3

Date Received: 02-SEP-14
Report Date: 18-SEP-14 16:28 (MT)
Version: FINAL

Client Phone: 604-669-0424

Certificate of Analysis

Lab Work Order #: L1511001
Project P.O. #: NOT SUBMITTED
Job Reference: 1190-001.06
C of C Numbers: 10-365216, 10-365217
Legal Site Desc:

Comments: ADDITIONAL 17-SEP-14 18:31

Brent Mack
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 8081 Lougheed Hwy, Suite 100, Burnaby, BC V5A 1W9 Canada | Phone: +1 604 253 4188 | Fax: +1 604 253 6700
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1511001-1	L1511001-2	L1511001-3	L1511001-4	L1511001-5
	Description	water	water	water	water	water
	Sampled Date	31-AUG-14	31-AUG-14	31-AUG-14	31-AUG-14	31-AUG-14
	Sampled Time	12:00	13:10	14:20	14:50	15:20
	Client ID	WQ2	WQ3	WQ4	WQ11	WQ12
Grouping	Analyte					
WATER						
Field Tests	pH, Client Supplied (pH)	7.19	7	7.11	6.87	6.7
Physical Tests	Conductivity (uS/cm)	57.0	38.6	36.8	61.6	63.4
	Hardness (as CaCO3) (mg/L)	28.6	19.6	18.7	34.0	34.1
	Langelier Index Temperature (C)	11.03	11.17	11.53	10.58	11.4
	Langelier Index (none)	-1.5	-2.0	-2.1	-1.3	-1.4
	pH (pH)	7.69	7.51	7.43	7.69	7.63
	Total Suspended Solids (mg/L)	<3.0	<3.0	<3.0	<3.0	3.9
	Total Dissolved Solids (mg/L)	49	39	31	55	71
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	1.5	1.5	1.5	1.8	2.0
	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	27.0	18.0	17.5	31.6	32.2
	Alkalinity, Carbonate (as CaCO3) (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0
	Alkalinity, Hydroxide (as CaCO3) (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0
	Alkalinity, Total (as CaCO3) (mg/L)	27.0	18.0	17.5	31.6	32.2
	Ammonia, Total (as N) (mg/L)	<0.0050	<0.0050	<0.0050	0.0104	0.0083
	Bromide (Br) (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Chloride (Cl) (mg/L)	0.77	<0.50	<0.50	<0.50	<0.50
	Fluoride (F) (mg/L)	0.085	0.078	0.072	0.126	0.160
	Nitrate and Nitrite (as N) (mg/L)	<0.0051	<0.0051	<0.0051	0.0052	<0.0051
	Nitrate (as N) (mg/L)	<0.0050	<0.0050	<0.0050	0.0052	<0.0050
	Nitrite (as N) (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Orthophosphate-Dissolved (as P) (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Sulfate (SO4) (mg/L)	<0.50	<0.50	<0.50	<0.50	<0.50
Cyanides	Cyanide, Total (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Organic / Inorganic Carbon	Dissolved Organic Carbon (mg/L)	5.92	6.28	5.05	7.37	11.2
Total Metals	Aluminum (Al)-Total (mg/L)	0.0078	0.0151	0.0095	0.0060	0.0122
	Antimony (Sb)-Total (mg/L)	0.000044	0.000026	0.000025	0.000033	<0.000050 ^{DLB}
	Arsenic (As)-Total (mg/L)	0.000131	0.000156	0.000095	0.000113	0.000192
	Barium (Ba)-Total (mg/L)	0.0823	0.0607	0.0520	0.0843	0.111
	Beryllium (Be)-Total (mg/L)	<0.0000050	0.0000062	<0.0000050	<0.0000050	0.0000095
	Bismuth (Bi)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Boron (B)-Total (mg/L)	0.0070	0.0071	0.0064	<0.0050	<0.010 ^{DLB}
	Cadmium (Cd)-Total (mg/L)	0.0000751	<0.0000050	<0.0000050	0.0000156	0.0000207
	Calcium (Ca)-Total (mg/L)	6.62	4.38	4.27	8.26	7.41
	Cesium (Cs)-Total (mg/L)	0.0000062	0.0000056	0.0000053	0.0000075	0.0000074
	Chromium (Cr)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Cobalt (Co)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	0.000125

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1511001-6 water 31-AUG-14 15:50 WQ13	L1511001-7 water 31-AUG-14 19:00 WQ14	L1511001-8 water 31-AUG-14 12:30 WQ18	L1511001-9 water 31-AUG-14 18:15 WQ19	L1511001-10 water 31-AUG-14 17:50 WQ22
Grouping	Analyte					
WATER						
Field Tests	pH, Client Supplied (pH)	6.58	7.79	7.17	7.46	7.35
Physical Tests	Conductivity (uS/cm)	99.3	38.6	102	40.3	67.1
	Hardness (as CaCO3) (mg/L)	54.0	27.6	56.0	19.5	36.7
	Langelier Index Temperature (C)	9.82	11.36	10.32	10.54	11.72
	Langelier Index (none)	-0.83	-1.8	-0.67	-1.9	-1.2
	pH (pH)	7.89	7.54	7.94	7.54	7.70
	Total Suspended Solids (mg/L)	<3.0	<3.0	<3.0	<3.0	3.1
	Total Dissolved Solids (mg/L)	84	37	86	39	65
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	1.6	1.4	1.6	1.5	1.7
	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	48.0	17.6	56.0	18.7	31.8
	Alkalinity, Carbonate (as CaCO3) (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0
	Alkalinity, Hydroxide (as CaCO3) (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0
	Alkalinity, Total (as CaCO3) (mg/L)	48.0	17.6	56.0	18.7	31.8
	Ammonia, Total (as N) (mg/L)	0.0132	<0.0050	0.0093	<0.0050	0.0114
	Bromide (Br) (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Chloride (Cl) (mg/L)	1.79	<0.50	0.53	<0.50	<0.50
	Fluoride (F) (mg/L)	0.185	0.068	0.144	0.085	0.107
	Nitrate and Nitrite (as N) (mg/L)	0.0056	0.117	<0.0051	0.0170	<0.0051
	Nitrate (as N) (mg/L)	0.0056	0.117	<0.0050	0.0170	<0.0050
	Nitrite (as N) (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Orthophosphate-Dissolved (as P) (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Sulfate (SO4) (mg/L)	0.59	<0.50	<0.50	<0.50	1.03
Cyanides	Cyanide, Total (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	
Organic / Inorganic Carbon	Dissolved Organic Carbon (mg/L)	16.9	5.20	13.1	5.67	14.8
Total Metals	Aluminum (Al)-Total (mg/L)	0.0573	0.0197	0.0062	0.0055	0.0515
	Antimony (Sb)-Total (mg/L)	<0.000050 ^{DLB}	<0.000040 ^{DLB}	<0.000050 ^{DLB}	<0.000040 ^{DLB}	<0.000040 ^{DLB}
	Arsenic (As)-Total (mg/L)	0.000304	0.000112	0.000166	0.000116	0.000210
	Barium (Ba)-Total (mg/L)	0.143	0.0459	0.135	0.0540	0.0700
	Beryllium (Be)-Total (mg/L)	0.0000201	<0.000050	0.0000073	<0.000050	0.0000139
	Bismuth (Bi)-Total (mg/L)	<0.000050 ^{DLB}				
	Boron (B)-Total (mg/L)	<0.010 ^{DLB}				
	Cadmium (Cd)-Total (mg/L)	0.0000091	0.0000088 ^{DTC}	0.0000116	0.0000052	0.0000146
	Calcium (Ca)-Total (mg/L)	11.1	4.19	12.2	4.57	9.27
	Cesium (Cs)-Total (mg/L)	0.0000128	0.0000065	0.0000070	0.0000055	0.0000060
	Chromium (Cr)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Cobalt (Co)-Total (mg/L)	0.000092	<0.000050	<0.000050	<0.000050	0.000086

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	Description	L1511001-11	L1511001-12	L1511001-13	L1511001-14	L1511001-15
		water	water	water	water	water
		31-AUG-14	31-AUG-14	31-AUG-14	31-AUG-14	31-AUG-14
		18:40	17:20	16:50	12:00	12:00
		WQ23	WQ24	WQ26	DS1-310814	DS2-310814
Grouping	Analyte					
WATER						
Field Tests	pH, Client Supplied (pH)	7.51	7.53	6.72	7	
Physical Tests	Conductivity (uS/cm)	37.2	140	372	39.1	
	Hardness (as CaCO3) (mg/L)	18.6	73.1	200	19.2	
	Langelier Index Temperature (C)	10.89	11.13	7.482	11.17	
	Langelier Index (none)	-2.1	-0.46	0.17	-2.0	
	pH (pH)	7.49	7.91	7.83	7.52	
	Total Suspended Solids (mg/L)	<3.0	12.6	<3.0	<3.0	
	Total Dissolved Solids (mg/L)	42	117	269	48	
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	1.5	3.3	6.8	1.4	
	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	16.6	56.3	129	18.1	
	Alkalinity, Carbonate (as CaCO3) (mg/L)	<2.0	<2.0	<2.0	<2.0	
	Alkalinity, Hydroxide (as CaCO3) (mg/L)	<2.0	<2.0	<2.0	<2.0	
	Alkalinity, Total (as CaCO3) (mg/L)	16.6	56.3	129	18.1	
	Ammonia, Total (as N) (mg/L)	<0.0050	0.0079	0.0088	0.0055	0.0123
	Bromide (Br) (mg/L)	<0.050	<0.050	<0.050	<0.050	
	Chloride (Cl) (mg/L)	<0.50	<0.50	<0.50	<0.50	
	Fluoride (F) (mg/L)	0.083	0.113	0.251	0.079	
	Nitrate and Nitrite (as N) (mg/L)	<0.0051	0.130	0.178	<0.0051	
	Nitrate (as N) (mg/L)	<0.0050	0.130	0.176	<0.0050	
	Nitrite (as N) (mg/L)	<0.0010	<0.0010	0.0018	<0.0010	
	Orthophosphate-Dissolved (as P) (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	
	Sulfate (SO4) (mg/L)	0.50	15.1	65.9	<0.50	
Cyanides	Cyanide, Total (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Organic / Inorganic Carbon	Dissolved Organic Carbon (mg/L)	6.94	14.7	10.7	6.25	16.8
Total Metals	Aluminum (Al)-Total (mg/L)	0.0132	0.267	0.0249	0.0148	0.0890
	Antimony (Sb)-Total (mg/L)	<0.000030 ^{DLB}	<0.000040 ^{DLB}	0.000281	<0.000040 ^{DLB}	<0.000050 ^{DLB}
	Arsenic (As)-Total (mg/L)	0.000101	0.000208	0.000241	0.000125	0.000381
	Barium (Ba)-Total (mg/L)	0.0471	0.0927	0.0395	0.0602	0.167
	Beryllium (Be)-Total (mg/L)	0.0000058	0.0000360	0.0000151	0.0000054	0.0000258
	Bismuth (Bi)-Total (mg/L)	<0.000050 ^{DLB}				
	Boron (B)-Total (mg/L)	<0.010 ^{DLB}	<0.010 ^{DLB}	<0.015 ^{DLB}	<0.010 ^{DLB}	<0.010 ^{DLB}
	Cadmium (Cd)-Total (mg/L)	0.0000068	0.0000167	<0.000040 ^{DLM}	<0.0000050	<0.0000050
	Calcium (Ca)-Total (mg/L)	4.10	21.4	68.5	4.36	11.6
	Cesium (Cs)-Total (mg/L)	0.0000055	0.0000556	0.0000873	0.0000067	0.0000197
	Chromium (Cr)-Total (mg/L)	<0.00050	0.00086	<0.00050	<0.00050	0.00059
	Cobalt (Co)-Total (mg/L)	<0.000050	0.000193	0.000688	<0.000050	0.000119

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1511001-1	L1511001-2	L1511001-3	L1511001-4	L1511001-5
		Description	water	water	water	water	water
		Sampled Date	31-AUG-14	31-AUG-14	31-AUG-14	31-AUG-14	31-AUG-14
		Sampled Time	12:00	13:10	14:20	14:50	15:20
		Client ID	WQ2	WQ3	WQ4	WQ11	WQ12
Grouping	Analyte						
WATER							
Total Metals	Copper (Cu)-Total (mg/L)		0.00107	0.00067	<0.00050	0.00125	0.00096
	Gallium (Ga)-Total (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Iron (Fe)-Total (mg/L)		0.067	0.083	0.057	0.065	0.265
	Lead (Pb)-Total (mg/L)		0.000125	<0.000050	<0.000050	<0.000050	0.000068
	Lithium (Li)-Total (mg/L)		0.00119	0.00083	0.00054	0.00100	0.00201
	Magnesium (Mg)-Total (mg/L)		2.99	2.06	2.03	3.14	3.58
	Manganese (Mn)-Total (mg/L)		0.0124	0.0121	0.00541	0.00392	0.0182
	Mercury (Hg)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)		0.000194	0.000175	0.000096	0.000244	0.000413
	Nickel (Ni)-Total (mg/L)		0.00076	0.00057	0.00040	0.00059	0.00123
	Phosphorus (P)-Total (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)		<2.0	<2.0	<2.0	<2.0	<2.0
	Rhenium (Re)-Total (mg/L)		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Rubidium (Rb)-Total (mg/L)		0.00103	0.00104	0.000887	0.000845	0.000960
	Selenium (Se)-Total (mg/L)		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Silicon (Si)-Total (mg/L)		0.399	0.309	0.195	0.512	0.933
	Silver (Ag)-Total (mg/L)		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Sodium (Na)-Total (mg/L)		<2.0	<2.0	<2.0	<2.0	<2.0
	Strontium (Sr)-Total (mg/L)		0.0897	0.0574	0.0548	0.0929	0.110
	Tellurium (Te)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Thallium (Tl)-Total (mg/L)		<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
	Thorium (Th)-Total (mg/L)		0.0000065	0.0000152	0.0000106	0.0000068	0.0000188
	Tin (Sn)-Total (mg/L)		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Titanium (Ti)-Total (mg/L)		0.00023	0.00034	0.00021	<0.00020	0.00037
	Tungsten (W)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	0.000050
	Uranium (U)-Total (mg/L)		0.000648	0.000115	0.0000944	0.000271	0.000119
	Vanadium (V)-Total (mg/L)		0.000086	0.000116	0.000067	0.000095	0.000163
	Yttrium (Y)-Total (mg/L)		0.0000217	0.0000383	0.0000258	0.0000215	0.0000553
	Zinc (Zn)-Total (mg/L)		0.0034	0.0057	0.0034	0.0051	0.0078
	Zirconium (Zr)-Total (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Dissolved Metals	Dissolved Mercury Filtration Location		FIELD	FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location		FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)		0.0023	0.0073	0.0041	0.0035	0.0063
	Antimony (Sb)-Dissolved (mg/L)		0.000014	0.000019	0.000012	<0.000010	0.000016
	Arsenic (As)-Dissolved (mg/L)		0.000132	0.000153	0.000093	0.000119	0.000189
	Barium (Ba)-Dissolved (mg/L)		0.0762	0.0571	0.0527	0.0855	0.105
	Beryllium (Be)-Dissolved (mg/L)		<0.0000050	0.0000056	<0.0000050	<0.0000050	0.0000098

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1511001-6	L1511001-7	L1511001-8	L1511001-9	L1511001-10
		Description	water	water	water	water	water
		Sampled Date	31-AUG-14	31-AUG-14	31-AUG-14	31-AUG-14	31-AUG-14
		Sampled Time	15:50	19:00	12:30	18:15	17:50
		Client ID	WQ13	WQ14	WQ18	WQ19	WQ22
Grouping	Analyte						
WATER							
Total Metals	Copper (Cu)-Total (mg/L)		0.00169	0.00059	0.00066	<0.00050	0.00237
	Gallium (Ga)-Total (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Iron (Fe)-Total (mg/L)		0.220	0.053	0.110	0.089	0.156
	Lead (Pb)-Total (mg/L)		0.000148	<0.000050	<0.000050	<0.000050	0.000057
	Lithium (Li)-Total (mg/L)		0.00281	0.00071	0.00154	0.00074	0.00106
	Magnesium (Mg)-Total (mg/L)		5.55	2.02	5.44	1.89	2.98
	Manganese (Mn)-Total (mg/L)		0.0112	0.00644	0.00475	0.00961	0.0150
	Mercury (Hg)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)		0.000422	0.000109	0.000336	0.000107	0.000158
	Nickel (Ni)-Total (mg/L)		0.00194	0.00043	0.00099	0.00041	0.00136
	Phosphorus (P)-Total (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)		<2.0	<2.0	<2.0	<2.0	<2.0
	Rhenium (Re)-Total (mg/L)		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Rubidium (Rb)-Total (mg/L)		0.00173	0.00101	0.000933	0.000951	0.000644
	Selenium (Se)-Total (mg/L)		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Silicon (Si)-Total (mg/L)		0.585	0.275	1.15	0.204	0.752
	Silver (Ag)-Total (mg/L)		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Sodium (Na)-Total (mg/L)		<2.0	<2.0	<2.0	<2.0	<2.0
	Strontium (Sr)-Total (mg/L)		0.142	0.0666	0.121	0.0507	0.0731
	Tellurium (Te)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Thallium (Tl)-Total (mg/L)		0.0000041	<0.0000020	<0.0000020	<0.0000020	0.0000029
	Thorium (Th)-Total (mg/L)		0.0000412	0.0000153	0.0000106	0.0000056	0.0000481
	Tin (Sn)-Total (mg/L)		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Titanium (Ti)-Total (mg/L)		0.00222	0.00046	<0.00020	<0.00020	0.00079
	Tungsten (W)-Total (mg/L)		0.000017	<0.000010	<0.000010	<0.000010	<0.000010
	Uranium (U)-Total (mg/L)		0.000397	0.0000674	0.000457	0.0000488	0.000483
	Vanadium (V)-Total (mg/L)		0.000344	0.000086	0.000123	<0.000050	0.000180
	Yttrium (Y)-Total (mg/L)		0.000123	0.0000377	0.0000360	0.0000153	0.000141
	Zinc (Zn)-Total (mg/L)		0.0042	0.0032	0.0058	<0.0030	0.0094
	Zirconium (Zr)-Total (mg/L)		0.000090	<0.000050	<0.000050	<0.000050	0.000117
Dissolved Metals	Dissolved Mercury Filtration Location		FIELD	FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location		FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)		0.0152	0.0129	0.0040	0.0025	0.0386
	Antimony (Sb)-Dissolved (mg/L)		0.000028	0.000192 ^{DTC}	0.000019	0.000014	0.000019
	Arsenic (As)-Dissolved (mg/L)		0.000363	0.000147	0.000196	0.000132	0.000263
	Barium (Ba)-Dissolved (mg/L)		0.153	0.0466	0.143	0.0491	0.0747
	Beryllium (Be)-Dissolved (mg/L)		0.0000168	<0.0000050	0.0000074	<0.0000050	0.0000132

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1511001-11	L1511001-12	L1511001-13	L1511001-14	L1511001-15
		Description	water	water	water	water	water
		Sampled Date	31-AUG-14	31-AUG-14	31-AUG-14	31-AUG-14	31-AUG-14
		Sampled Time	18:40	17:20	16:50	12:00	12:00
		Client ID	WQ23	WQ24	WQ26	DS1-310814	DS2-310814
Grouping	Analyte						
WATER							
Total Metals	Copper (Cu)-Total (mg/L)		0.00095	0.00550	0.0347	0.00067	0.00170
	Gallium (Ga)-Total (mg/L)		<0.000050	0.000062	<0.000050	<0.000050	<0.000050
	Iron (Fe)-Total (mg/L)		0.077	0.487	0.041	0.080	0.273
	Lead (Pb)-Total (mg/L)		<0.000050	0.000382	0.000593	<0.000050	0.000168
	Lithium (Li)-Total (mg/L)		0.00073	0.00131	0.00334	0.00067	0.00285
	Magnesium (Mg)-Total (mg/L)		1.95	4.11	7.20	2.05	5.77
	Manganese (Mn)-Total (mg/L)		0.0121	0.0140	0.131	0.0125	0.0135
	Mercury (Hg)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)		0.000081	0.000344	0.0444	0.000182	0.000494
	Nickel (Ni)-Total (mg/L)		0.00074	0.00200	0.00165	0.00060	0.00199
	Phosphorus (P)-Total (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)		<2.0	<2.0	2.9	<2.0	<2.0
	Rhenium (Re)-Total (mg/L)		<0.0000050	<0.0000050	0.000226	<0.0000050	<0.0000050
	Rubidium (Rb)-Total (mg/L)		0.000960	0.00209	0.00318	0.00104	0.00199
	Selenium (Se)-Total (mg/L)		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Silicon (Si)-Total (mg/L)		0.529	1.09	4.49	0.295	0.689
	Silver (Ag)-Total (mg/L)		<0.0000050	0.0000134	0.0000139	<0.0000050	<0.0000050
	Sodium (Na)-Total (mg/L)		<2.0	<2.0	3.3	<2.0	<2.0
	Strontium (Sr)-Total (mg/L)		0.0432	0.0931	0.297	0.0592	0.154
	Tellurium (Te)-Total (mg/L)		<0.000010	<0.000010	0.000424	<0.000010	<0.000010
	Thallium (Tl)-Total (mg/L)		0.0000023	0.0000115	0.000130	0.0000022	0.0000069
	Thorium (Th)-Total (mg/L)		0.0000186	0.000151	0.000124	0.0000256	0.0000667
	Tin (Sn)-Total (mg/L)		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Titanium (Ti)-Total (mg/L)		0.00021	0.00693	0.00085	0.00038	0.00360
	Tungsten (W)-Total (mg/L)		<0.000010	<0.000010	0.000066	<0.000010	0.000018
	Uranium (U)-Total (mg/L)		0.0000591	0.000601	0.597	0.000120	0.000471
	Vanadium (V)-Total (mg/L)		0.000080	0.000424	0.000107	0.000122	0.000434
	Yttrium (Y)-Total (mg/L)		0.0000551	0.000532	0.000644	0.0000373	0.000170
	Zinc (Zn)-Total (mg/L)		0.0037	0.0052	0.0188	<0.0030	0.0047
	Zirconium (Zr)-Total (mg/L)		0.000070	0.000384	0.00111	0.000062	0.000236
Dissolved Metals	Dissolved Mercury Filtration Location		FIELD	FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location		FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)		0.0077	0.0216	0.0188	0.0070	0.0156
	Antimony (Sb)-Dissolved (mg/L)		0.000015	0.000021	0.000297	0.000019	0.000029
	Arsenic (As)-Dissolved (mg/L)		0.000113	0.000223	0.000281	0.000155	0.000384
	Barium (Ba)-Dissolved (mg/L)		0.0419	0.0860	0.0342	0.0582	0.151
	Beryllium (Be)-Dissolved (mg/L)		0.0000054	0.0000100	0.0000155	0.0000053	0.0000184

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	Description	Sampled Date	Sampled Time	Client ID	L1511001-1	L1511001-2	L1511001-3	L1511001-4	L1511001-5
					water	water	water	water	water
		31-AUG-14	12:00	WQ2	31-AUG-14	31-AUG-14	31-AUG-14	31-AUG-14	31-AUG-14
					12:00	13:10	14:20	14:50	15:20
					WQ2	WQ3	WQ4	WQ11	WQ12
Grouping	Analyte								
WATER									
Dissolved Metals	Bismuth (Bi)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Boron (B)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Cadmium (Cd)-Dissolved (mg/L)	<0.0000050	0.0000189 ^{DTC}	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000062
	Calcium (Ca)-Dissolved (mg/L)	6.57	4.42	4.21	8.37	7.42			
	Cesium (Cs)-Dissolved (mg/L)	<0.0000050	<0.0000050	<0.0000050	0.0000059	0.0000052			
	Chromium (Cr)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050			
	Cobalt (Co)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	0.000088			
	Copper (Cu)-Dissolved (mg/L)	0.00065	0.00071	0.00044	0.00077	0.00067			
	Gallium (Ga)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050			
	Iron (Fe)-Dissolved (mg/L)	<0.030	0.030	<0.030	0.040	0.136			
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050			
	Lithium (Li)-Dissolved (mg/L)	0.00073	0.00075	0.00058	0.00080	0.00174			
	Magnesium (Mg)-Dissolved (mg/L)	2.97	2.07	1.99	3.17	3.79			
	Manganese (Mn)-Dissolved (mg/L)	0.00252	0.00204	0.00079	0.00285	0.00939			
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010			
	Molybdenum (Mo)-Dissolved (mg/L)	0.000151	0.000142	0.000077	0.000223	0.000093			
	Nickel (Ni)-Dissolved (mg/L)	0.00057	0.00065	0.00041	0.00055	0.00118			
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30			
	Potassium (K)-Dissolved (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0			
	Rhenium (Re)-Dissolved (mg/L)	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050			
	Rubidium (Rb)-Dissolved (mg/L)	0.000903	0.000997	0.000838	0.000802	0.000979			
	Selenium (Se)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020			
	Silicon (Si)-Dissolved (mg/L)	0.367	0.283	0.169	0.515	0.957			
	Silver (Ag)-Dissolved (mg/L)	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050			
	Sodium (Na)-Dissolved (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0			
	Strontium (Sr)-Dissolved (mg/L)	0.0788	0.0548	0.0524	0.0850	0.113			
	Tellurium (Te)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010			
	Thallium (Tl)-Dissolved (mg/L)	<0.0000020	<0.0000020	<0.0000020	<0.0000020	0.0000023			
	Thorium (Th)-Dissolved (mg/L)	<0.0000050	0.0000095	0.0000059	<0.0000050	0.0000161			
	Tin (Sn)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020			
	Titanium (Ti)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	0.00020			
	Tungsten (W)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010			
	Uranium (U)-Dissolved (mg/L)	0.000588	0.000107	0.0000832	0.000237	0.000114			
	Vanadium (V)-Dissolved (mg/L)	0.000066	0.000083	0.000051	0.000079	0.000114			
	Yttrium (Y)-Dissolved (mg/L)	0.0000148	0.0000297	0.0000180	0.0000191	0.0000448			
	Zinc (Zn)-Dissolved (mg/L)	0.0028	0.0142 ^{DTC}	0.0017	0.0016	0.0032			
	Zirconium (Zr)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	0.000112			

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	Description	Sampled Date	Sampled Time	Client ID	L1511001-6	L1511001-7	L1511001-8	L1511001-9	L1511001-10
					water	water	water	water	water
		31-AUG-14	15:50	WQ13	31-AUG-14	31-AUG-14	31-AUG-14	31-AUG-14	31-AUG-14
					15:50	19:00	12:30	18:15	17:50
					WQ13	WQ14	WQ18	WQ19	WQ22
Grouping	Analyte								
WATER									
Dissolved Metals	Bismuth (Bi)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Boron (B)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Cadmium (Cd)-Dissolved (mg/L)	<0.0000050	0.000356 ^{DTC}	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000063
	Calcium (Ca)-Dissolved (mg/L)	11.9	7.58 ^{DTC}	12.9	4.66	9.64			
	Cesium (Cs)-Dissolved (mg/L)	0.0000053	<0.0000050	0.0000058	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Chromium (Cr)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Cobalt (Co)-Dissolved (mg/L)	0.000060	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000065
	Copper (Cu)-Dissolved (mg/L)	0.00147	0.00191 ^{DTC}	0.00056	0.00047	0.00224			
	Gallium (Ga)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Iron (Fe)-Dissolved (mg/L)	0.113	<0.030	0.085	0.030	0.087			
	Lead (Pb)-Dissolved (mg/L)	<0.000050	0.000286 ^{DTC}	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.00264	0.00059	0.00145	0.00061	0.00095			
	Magnesium (Mg)-Dissolved (mg/L)	5.88	2.10	5.77	1.91	3.07			
	Manganese (Mn)-Dissolved (mg/L)	0.00339	0.00483	0.00276	0.00084	0.00451			
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.000470	0.00127 ^{DTC}	0.000322	0.000080	0.000143			
	Nickel (Ni)-Dissolved (mg/L)	0.00184	0.00067	0.00106	0.00041	0.00143			
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30			
	Potassium (K)-Dissolved (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0			
	Rhenium (Re)-Dissolved (mg/L)	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Rubidium (Rb)-Dissolved (mg/L)	0.00168	0.00103	0.000960	0.000923	0.000596			
	Selenium (Se)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Silicon (Si)-Dissolved (mg/L)	0.533	0.248	1.20	0.194	0.759			
	Silver (Ag)-Dissolved (mg/L)	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Sodium (Na)-Dissolved (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0			
	Strontium (Sr)-Dissolved (mg/L)	0.142	0.0689	0.120	0.0477	0.0713			
	Tellurium (Te)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Thallium (Tl)-Dissolved (mg/L)	0.0000041	<0.0000020	<0.0000020	<0.0000020	0.0000032			
	Thorium (Th)-Dissolved (mg/L)	0.0000286	0.0000090	0.0000097	<0.0000050	0.0000530			
	Tin (Sn)-Dissolved (mg/L)	<0.00020	0.00025	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Titanium (Ti)-Dissolved (mg/L)	0.00035	<0.00020	<0.00020	<0.00020	0.00038			
	Tungsten (W)-Dissolved (mg/L)	0.000014	0.000090 ^{DTC}	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Uranium (U)-Dissolved (mg/L)	0.000398	0.0000661	0.000496	0.0000440	0.000451			
	Vanadium (V)-Dissolved (mg/L)	0.000226	0.000077	0.000125	<0.000050	0.000151			
	Yttrium (Y)-Dissolved (mg/L)	0.0000805	0.0000395	0.0000342	0.0000106	0.000123			
	Zinc (Zn)-Dissolved (mg/L)	0.0026	0.0194 ^{DTC}	0.0042	0.0055	0.0045			
	Zirconium (Zr)-Dissolved (mg/L)	0.000269 ^{DTC}	0.000060	0.000098	<0.000050	0.000346 ^{DTC}			

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1511001-11	L1511001-12	L1511001-13	L1511001-14	L1511001-15
		Description	water	water	water	water	water
		Sampled Date	31-AUG-14	31-AUG-14	31-AUG-14	31-AUG-14	31-AUG-14
		Sampled Time	18:40	17:20	16:50	12:00	12:00
		Client ID	WQ23	WQ24	WQ26	DS1-310814	DS2-310814
Grouping	Analyte						
WATER							
Dissolved Metals	Bismuth (Bi)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Boron (B)-Dissolved (mg/L)		<0.0050	<0.0050	0.0073	0.0064	<0.0050
	Cadmium (Cd)-Dissolved (mg/L)		<0.0000050	<0.0000050	<0.000040 ^{DLM}	<0.0000050	<0.0000050
	Calcium (Ca)-Dissolved (mg/L)		4.18	22.3	68.5	4.33	11.8
	Cesium (Cs)-Dissolved (mg/L)		<0.0000050	0.0000074	0.0000771	<0.0000050	0.0000052
	Chromium (Cr)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Cobalt (Co)-Dissolved (mg/L)		<0.000050	0.000050	0.000632	<0.000050	0.000065
	Copper (Cu)-Dissolved (mg/L)		0.00082	0.00383	0.0367	0.00062	0.00151
	Gallium (Ga)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Iron (Fe)-Dissolved (mg/L)		<0.030	0.080	0.034	<0.030	0.119
	Lead (Pb)-Dissolved (mg/L)		<0.000050	<0.000050	0.000454	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)		0.00068	0.00102	0.00296	0.00057	0.00250
	Magnesium (Mg)-Dissolved (mg/L)		1.98	4.25	7.09	2.04	5.86
	Manganese (Mn)-Dissolved (mg/L)		0.00349	0.00440	0.123	0.00207	0.00346
	Mercury (Hg)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)		0.000065	0.000313	0.0417	0.000142	0.000467
	Nickel (Ni)-Dissolved (mg/L)		0.00076	0.00136	0.00154	0.00062	0.00185
	Phosphorus (P)-Dissolved (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)		<2.0	<2.0	2.7	<2.0	<2.0
	Rhenium (Re)-Dissolved (mg/L)		<0.0000050	<0.0000050	0.000223	<0.0000050	<0.0000050
	Rubidium (Rb)-Dissolved (mg/L)		0.000933	0.00145	0.00289	0.000988	0.00165
	Selenium (Se)-Dissolved (mg/L)		<0.00020	<0.00020	0.00023	<0.00020	<0.00020
	Silicon (Si)-Dissolved (mg/L)		0.518	0.731	4.43	0.279	0.527
	Silver (Ag)-Dissolved (mg/L)		<0.0000050	<0.0000050	0.0000066	<0.0000050	<0.0000050
	Sodium (Na)-Dissolved (mg/L)		<2.0	<2.0	3.1	<2.0	<2.0
	Strontium (Sr)-Dissolved (mg/L)		0.0458	0.0942	0.286	0.0557	0.143
	Tellurium (Te)-Dissolved (mg/L)		<0.000010	<0.000010	0.000158	<0.000010	<0.000010
	Thallium (Tl)-Dissolved (mg/L)		0.0000032	0.0000073	0.000138	0.0000032	0.0000058
	Thorium (Th)-Dissolved (mg/L)		0.0000141	0.0000359	0.0000999	0.0000090	0.0000302
	Tin (Sn)-Dissolved (mg/L)		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Titanium (Ti)-Dissolved (mg/L)		<0.00020	0.00030	0.00064	<0.00020	0.00037
	Tungsten (W)-Dissolved (mg/L)		<0.000010	<0.000010	0.000064	<0.000010	0.000015
	Uranium (U)-Dissolved (mg/L)		0.0000576	0.000522	0.629	0.000104	0.000401
	Vanadium (V)-Dissolved (mg/L)		0.000060	0.000103	0.000099	0.000082	0.000229
	Yttrium (Y)-Dissolved (mg/L)		0.0000457	0.000119	0.000633	0.0000288	0.0000822
	Zinc (Zn)-Dissolved (mg/L)		0.0016	0.0010	0.0046	0.0035	0.0023
	Zirconium (Zr)-Dissolved (mg/L)		0.000099	0.000224	0.00112	<0.000050	0.000267

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Reference Information

Qualifiers for Sample Submission Listed:

Qualifier	Description
WSMD	Water sample(s) for dissolved mercury analysis was not submitted in glass or PTFE container with HCl preservative. Results may be biased low.

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Antimony (Sb)-Total	MB-LOR	L1511001-10, -11, -12, -13, -14, -15, -5, -6, -7, -8, -9
Method Blank	Boron (B)-Total	MB-LOR	L1511001-10, -11, -12, -13, -14, -15, -5, -6, -7, -8, -9
Method Blank	Strontium (Sr)-Total	MB-LOR	L1511001-10, -11, -12, -13, -14, -15, -5, -6, -7, -8, -9
Matrix Spike	Dissolved Organic Carbon	MS-B	L1511001-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Dissolved Organic Carbon	MS-B	L1511001-15, -6
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1511001-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1511001-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Total	MS-B	L1511001-1, -2, -3, -4
Matrix Spike	Strontium (Sr)-Total	MS-B	L1511001-1, -2, -3, -4

Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLB	Detection Limit was raised due to detection of analyte at comparable level in Method Blank.
DLM	Detection Limit Adjusted due to sample matrix effects.
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-PCT-VA	Water	Acidity by Automatic Titration	APHA 2310 "Acidity"
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
Samples of industrial wastes, acid mine drainage, or other solutions that contain appreciable amounts of hydrolyzable metal ions such as aluminum, iron, and manganese may require hot peroxide treatment to ensure oxidation and hydrolysis of reduced forms of polyvalent cations. Acidity results may be highly variable if this procedure is not followed. Results in this report for 'Acidity (as CaCO3)' have not been peroxide treated.			
ACY-PCT-VA	Water	Acidity by Automatic Titration	APHA 2310 Acidity
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
Samples of industrial wastes, acid mine drainage, or other solutions that contain appreciable amounts of hydrolyzable metal ions such as aluminum, iron, and manganese may require hot peroxide treatment to ensure oxidation and hydrolysis of reduced forms of polyvalent cations. Acidity results may be highly variable if this procedure is not followed. Results in this report for 'Acidity (as CaCO3)' have not been peroxide treated.			
ALK-SCR-VA	Water	Alkalinity by colour or titration	EPA 310.2 OR APHA 2320
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
OR			
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
ANIONS-F-IC-VA	Water	Fluoride by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
ANIONS-N+N-CALC-VA	Water	Nitrite & Nitrate in Water (Calculation)	EPA 300.0

Reference Information

Nitrate and Nitrite (as N) is a calculated parameter. Nitrate and Nitrite (as N) = Nitrite (as N) + Nitrate (as N).

ANIONS-NO2-IC-VA	Water	Nitrite in Water by Ion Chromatography	EPA 300.0
This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrite is detected by UV absorbance.			
ANIONS-NO3-IC-VA	Water	Nitrate in Water by Ion Chromatography	EPA 300.0
This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrate is detected by UV absorbance.			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
CARBONS-DOC-VA	Water	Dissolved organic carbon by combustion	APHA 5310 TOTAL ORGANIC CARBON (TOC)
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)". Dissolved carbon (DOC) fractions are determined by filtering the sample through a 0.45 micron membrane filter prior to analysis.			
CN-T-CFA-VA	Water	Total Cyanide in water by CFA	ISO 14403:2002
This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis. Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO ₃ equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.			
HG-DIS-LOW-CVAFS-VA	Water	Dissolved Mercury in Water by CVAFS(Low)	EPA SW-846 3005A & EPA 245.7
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).			
HG-TOT-LOW-CVAFS-VA	Water	Total Mercury in Water by CVAFS(Low)	EPA 245.7
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).			
LANGELIER-CALC-VA	Water	Langelier Index	APHA 2330B
Langelier Index provides an indication of scale formation potential at a given pH and temperature. Field pH is used where provided. Positive values indicate oversaturation with respect to CaCO ₃ . Negative values indicate undersaturation of CaCO ₃ . Langelier Index is calculated as per APHA 2330B Saturation Index.			
LANGELIER-TEMP-VA	Water	Langelier Index Temperature	Temperature
MET-D-L-HRMS-VA	Water	Diss. Metals in Water by HR-ICPMS	EPA 200.8
Trace metals in water are analyzed by high resolution inductively coupled plasma mass spectrometry (HR-ICPMS) modified from US EPA Method 200.8, (Revision 5.5). The procedures may involve laboratory sample filtration modified from APHA Method 3030B.			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).			
MET-T-L-HRMS-VA	Water	Total Metals in Water by HR-ICPMS	EPA 200.8
Trace metals in water are analyzed by high resolution inductively coupled plasma mass spectrometry (HR-ICPMS) modified from US EPA Method 200.8, (Revision 5.5). The procedures may involve preliminary sample treatment by acid digestion modified from APHA Method 3030E.			
MET-TOT-ICP-VA	Water	Total Metals in Water by ICPOES	EPA SW-846 3005A/6010B
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).			

Reference Information

NH3-F-VA	Water	Ammonia in Water by Fluorescence	J. ENVIRON. MONIT., 2005, 7, 37-42, RSC
This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode			
It is recommended that this analysis be conducted in the field.			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H pH Value
This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode			
It is recommended that this analysis be conducted in the field.			
PO4-DO-COL-VA	Water	Diss. Orthophosphate in Water by Colour	APHA 4500-P Phosphorus
This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Dissolved Orthophosphate is determined colourimetrically on a sample that has been lab or field filtered through a 0.45 micron membrane filter.			
TDS-VA	Water	Total Dissolved Solids by Gravimetric	APHA 2540 C - GRAVIMETRIC
This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.			
TSS-VA	Water	Total Suspended Solids by Gravimetric	APHA 2540 D - GRAVIMETRIC
This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

10-365216 10-365217

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

mg/kg - milligrams per kilogram based on dry weight of sample.

mg/kg wwt - milligrams per kilogram based on wet weight of sample.

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.

mg/L - milligrams per litre.

< - Less than.

D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Chain of Custody / Analytical Request Form
 Canada Toll Free: 1 800 668 9878
 www.alsglobal.com

Report To	Report Format / Distribution	Service Request: (Rush subject to availability - Contact ALS to confirm TAT)
Company: <u>Hemmera</u>	Standard: <u>Other (specify):</u>	<input checked="" type="checkbox"/> Regular (Standard Turnaround Times - Business Days)
Contact: <u>Deb Bryant</u>	Select: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel Digital Fax	Priority (2-4 Business Days)-50% surcharge - Contact ALS to confirm TAT
Address: <u>132 floor 4730 Kingsway</u>	Email 1: <u>dbryant@hemmera.ca</u>	Emergency (1-2 Business Days)-100% Surcharge - Contact ALS to confirm TAT
<u>Burnaby BC V5H 0C6</u>	Email 2:	Same Day or Weekend Emergency - Contact ALS to confirm TAT
Phone: <u>604-669-0124 ext 108</u> Fax:		

Invoice To Same as Report? (circle) Yes or No (if No, provide details)	Client / Project Information	Analysis Request (Indicate Filtered or Preserved, F/P)														
Copy of Invoice with Report? (circle) Yes or No	Job #: <u>1190-00.06</u>															
Company:	PO / AFE:															
Contact:	LSD:															
Address:	Quote #:															
Phone:																
Lab Work Order # <u>L1511001-COFC</u>	ALS Contact:	Sampler:														

Sample #	Sample Identification (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Acid. To. alk. Sp (pH)	Ammonia	Ammonia Scan	EC, pH, TDS, TSS, TOC	Total Cyanide	Ammonia	Total Metals (ICP)	Dissolved Metals (ICP)	Total Mercury (Low)	Dissolved Mercury (Low)	Log. temp + Log. Cl	DOC	Number of Containers
WQ2		31-Aug-14	12:00	WATER	X	X	X	X	X	X	X	X	X	X	X	X	7
WQ3			13:10		X	X	X	X	X	X	X	X	X	X	X	X	7
WQ4			14:20		X	X	X	X	X	X	X	X	X	X	X	X	7
WQ11			14:50		X	X	X	X	X	X	X	X	X	X	X	X	7
WQ12			15:20		X	X	X	X	X	X	X	X	X	X	X	X	7
WQ13			15:50		X	X	X	X	X	X	X	X	X	X	X	X	7
WQ14			19:00		X	X	X	X	X	X	X	X	X	X	X	X	7
WQ18			12:30		X	X	X	X	X	X	X	X	X	X	X	X	7
WQ19			18:15		X	X	X	X	X	X	X	X	X	X	X	X	7
WQ22			17:50 17:50		X	X	X	X	X	X	X	X	X	X	X	X	6
WQ23			18:40 18:40		X	X	X	X	X	X	X	X	X	X	X	X	7
WQ24			17:20		X	X	X	X	X	X	X	X	X	X	X	X	7

Short Holding Time
 Rush Processing

Special Instructions / Regulation with water or land use (CCME- Freshwater Aquatic Life/BC CSR-Commercial/AB Tier 1-Natural/ETC) / Hazardous Details

CCME WQ22 No cyanide

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

SHIPMENT RELEASE (client use)			SHIPMENT RECEPTION (lab use only)				SHIPMENT VERIFICATION (lab use only)			
Released by:	Date:	Time:	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations:
<u>[Signature]</u>	Sept 2-14	10:11	<u>Chris</u>	SEP 2/14	10:15am	6 °C				Yes / No ? If Yes add SIF



Report To	Report Format / Distribution	Service Request: (Rush subject to availability - Contact ALS to confirm TAT)
Company: <i>Hemmera</i>	Standard: <input checked="" type="checkbox"/> Other (specify):	Regular (Standard Turnaround Times - Business Days)
Contact: <i>Deb Bryant</i>	Select: PDF <input checked="" type="checkbox"/> Excel <input checked="" type="checkbox"/> Digital Fax	Priority(2-4 Business Days)-50% surcharge - Contact ALS to confirm TAT
Address: <i>18th Floor 4730 Kingsway Burnaby BC V5H 0C6</i>	Email 1: <i>dbryant@hemmera.com</i>	Emergency (1-2 Business Days)-100% Surcharge - Contact ALS to confirm TAT
Phone: <i>604-269-0424 ext 108</i> Fax:	Email 2:	Same Day or Weekend Emergency - Contact ALS to confirm TAT

Invoice To Same as Report ? (circle) <input checked="" type="checkbox"/> Yes or No (if No, provide details)	Client / Project Information	Analysis Request (Indicate Filtered or Preserved, F/P)												
Copy of Invoice with Report? (circle) Yes or No	Job #: <i>1190-001-06</i>													
Company:	PO / AFE:													
Contact:	LSD:													
Address:	Quote #:													
Phone:														
Lab Work Order # <i>L1511001-COFC</i>	ALS Contact:	Sampler:												



Sample #	Sample Identification (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Acidity, Alk, Sp (pH)	Ammonia	EC, pH, TDS, TSS, TOC, Turb	Total Cyanide	Ammonia	Total Metals	Dissolved Metals	Total Mercury	Dissolved Metals	Lang Temp + Lang Calc	DOC	Number of Containers
	<i>WQ26</i>	<i>31-Aug-14</i>	<i>16:50</i>	<i>WATER</i>	X	X	X	X	X	X	X	X	X	X	X	7
	<i>DS1-310814*</i>	<i>31-Aug-14</i>		<i>↓</i>	X	X	X	X	X	X	X	X	X	X	X	7
	<i>DS2-310814*</i>	<i>31-Aug-14</i>		<i>↓</i>	X	X	X	X	X	X	X	X	X	X	X	6

Short Holding Time
 Rush Processing

Special Instructions / Regulation with water or land use (CCME- Freshwater Aquatic Life/BC CSR-Commercial/AB Tier 1-Natural/ETC) / Hazardous Details

*CCME * back from DOC bottle - small volume. *X* Routine bottle broken*

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

SHIPMENT RELEASE (client use)			SHIPMENT RECEPTION (lab use only)				SHIPMENT VERIFICATION (lab use only)			
Released by: <i>[Signature]</i>	Date: <i>Sept 2-14</i>	Time: <i>10:11</i>	Received by: <i>Chris</i>	Date: <i>SEP/2/14</i>	Time: <i>10:15am</i>	Temperature: <i>6 °C</i>	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add SIF

APPENDIX C

2014 ANGILAK PROPERTY WILDLIFE OBSERVATION LOG

Date	Observer name	Time	Location of sighting	Observer position (NAD 83 Zone 14)		Distance from observed animal(s) (m/km)	Species	Taxonomic Group	# of individuals sighted	# of new individuals sighted (0 if same individual has been previously sighted)	# of sightings	Observer activity at time of sighting	Wildlife activity at time of sighting	Indicate any change in wildlife activity potentially resulting from sighting	Observer response/mitigation	Comments
				UTM East	UTM North											
26-Aug-14	Emily	9:00 AM	Field (away from camp or drill)			1/2 km	Caribou	Ungulate	1	1	1	Walking/surveying in field	Resting/ Grazing	No reaction	No change	observer was soil sampling
27-Aug-14	Emily	2:00 PM	Field			>1/2 km	Caribou	Ungulate	5	5	1	Walking/surveying in field	Resting/ Grazing	No reaction	No change	observer was soil sampling
30-Aug-14	Iain & Bahram		Field			500m	Grizzly Bear	Carnivore	3	3	1	Flying in helicopter/fixed wing	Walking	Moving away (walk or trot)	Gained elevation/Redirected flight path	mother and 2 cubs
31-Aug-14	Michelle & Bryan	10:00 AM	Field	515191	6937207	300 m	Wolf	Carnivore	1	1	1	Walking/surveying in field	Trotting	Approaching (curious)	Other	wolf first observed 500m away, then 300m away, observer radioed field partner and helicopter
31-Aug-14	Michelle & Bryan	11:00 AM	Field	515191	6937207	700	Caribou	Ungulate	8	1	1	Walking/surveying in field	Walking	No reaction	No change	caribou noted in vicinity NW of wolves from helicopter while traveling to move crew to location away from wolves.
31-Aug-14	Michelle & Bryan	11.15 am	Field	515191	6937207	1km	Wolf	Carnivore	1	1	1	Flying in helicopter/fixed wing	Running/ Travelling	No reaction	Gained elevation/Redirected flight path	wolf noted from helicopter in vicinity of caribou while traveling to move crew to location away from wolves.
2-Sep-14	Bahram		Field			700m	Grizzly Bear	Carnivore	1	1	1	Walking/surveying in field	Running/ Travelling	Fleeing (running away)	Other	observer radioed helicopter

APPENDIX D

2014 WATER USE RECORDS

2014 Nutaaq Camp Water Use

Date	Gallons/day	m3/day
20-Jun	30.00	0.11
21-Jun	0.00	0.00
22-Jun	0.00	0.00
23-Jun	0.00	0.00
24-Jun	0.00	0.00
19-Jul	30.00	0.11
20-Jul	0.00	0.00
21-Jul	0.00	0.00
22-Jul	0.00	0.00
23-Jul	20.00	0.08
24-Jul	0.00	0.00
21-Aug	25.00	0.09
22-Aug	0.00	0.00
23-Aug	0.00	0.00
24-Aug	1000.00	3.79
25-Aug	0.00	0.00
26-Aug	0.00	0.00
27-Aug	0.00	0.00
28-Aug	0.00	0.00
29-Aug	1000.00	3.79
30-Aug	0.00	0.00
31-Aug	0.00	0.00
1-Sep	0.00	0.00
2-Sep	1000.00	3.79
3-Sep	0.00	0.00
4-Sep	0.00	0.00
5-Sep	0.00	0.00
6-Sep	1000.00	3.79
7-Sep	0.00	0.00
8-Sep	0.00	0.00
9-Sep	0.00	0.00
10-Sep	1000.00	3.79
11-Sep	0.00	0.00
12-Sep	0.00	0.00
13-Sep	800.00	3.03
14-Sep	0.00	0.00
15-Sep	0.00	0.00
Total	5905.00	22.37
Daily Average	159.59	0.6

APPENDIX E

KIVALLIQ ENERGY WILDLIFE
&
ENVIRONMENTAL MITIGATION MEASURES

KIVALLIQ ENERGY CORPORATION
WILDLIFE & ENVIRONMENTAL
MITIGATION MEASURES

ANGILAK PROPERTY

KIVALLIQ REGION, NUNAVUT

Submitted To: NWB, INAC, KivIA Submitted

By: Jeff Ward, VP Exploration Originally

Submitted: January 2008

Updated: November 2013

INTRODUCTION

Kivalliq Energy Corporation is a Vancouver-based energy company committed to the exploration and development of resources within Canada.

Applications have been submitted to the Nunavut Water Board (water licence), Indian and Northern Affairs Canada (land use permit) and the Kivalliq Inuit Association (land use licence).

All employees and contractors of the company will be trained in the internal policies, procedures and made familiar with the Terms and Conditions of the project's licences and permits. Training will include, but not be limited to:

- Spill response
- Bear safety
- Safety
- Environmental policies
- Wildlife mitigation measures
- Caribou Mitigation Measures

Regional wildlife biologists, community members of Baker Lake, the Government of Nunavut, INAC and the Beverly and Qamanirjuaq Caribou Management Board (BQCMB) have identified areas in proximity of the Thelon as being important for wildlife, especially caribou as well as for historical/archaeological sites. This area supports a variety of wildlife. The following describes the efforts that the company will undergo to provide best management practices toward the protection and mitigations against disturbances to wildlife and sensitive areas. Suggestions and additional comments are welcomed and we will be contacting the local HTO's directly prior to the start of the field program.

INTERNAL POLICIES

Approaching and feeding wildlife is prohibited. There are absolutely no exceptions to this rule. If wildlife are present in the area, all employees and contractors are to avoid any contact with wildlife. These policies/regulations will be strictly enforced. Any employee or contractor who is found to be violating any of these rules will find their employment terminated and will be removed from site immediately.

Harassment and disturbance of wildlife is prohibited. If any employees and contractors are approaching a work site where migrating caribou, caribou cows and calves, muskoxen nurse groups or other wildlife are in the area, this work site will be avoided until the animals have moved on a distance of 1km from the site.

If employees and/or contractors encounter wildlife at any time, every effort should be made stay out of sight of wildlife or redirect travel away from wildlife where possible, to avoid impact to the wildlife.

Hunting of wildlife is prohibited. While conducting business on behalf of Kivalliq Energy Corp., hunting is strictly forbidden. There are no exceptions to this rule.

Flight altitudes must be strictly observed and recorded. Unless there is a specific requirement for low-level flights, fixed wing aircraft and helicopters will maintain a minimum altitude of 610 metres above ground level in places where there are migrating caribou, caribou cows and calves, muskoxen nurse groups and other wildlife. In areas where there are colonies of birds observed, the flight levels will be restricted to a vertical distance of 1000 metres and a horizontal distance of 1500 metres from the birds.

Helicopter pilots will be instructed that they are not to fly over wildlife in a way to cause them to change behavior, run or flee at any time, within or outside of migration. If such an interaction should occur incidentally, helicopter pilots will be instructed to divert and/or change altitude as quickly as safely practicable.

Low-level aircraft and helicopter flights will be kept to a minimum. Low-level aircraft and helicopter flights will make efforts to avoid areas which are crucial migration, nesting and denning habitats. In the event of bad weather or an emergency when low-level flights are required, these instances will be recorded and reported to the KIA.

Airborne Geophysical Surveys: Prior to conducting any low-level airborne geophysical surveys the Kivalliq Inuit Association will be contacted and the following information will be provided; dates of surveys, location of surveys, how long the surveys will take to complete. As well, locally hired wildlife monitors will be required to conduct a survey of the area to ensure that there are no wildlife present and will monitor for wildlife during the survey. If caribou and/or muskox are seen in the area, the geophysical survey will not be flown until they have moved a safe distance (at least 1 km) from the area to be surveyed.

No aircraft landings when migrating caribou, caribou cows and calves, muskoxen nurse groups or other wildlife present. This includes both fixed-wing and helicopters. In areas where migrating caribou, caribou cows and calves, muskoxen nurse groups or other wildlife are present, there will be no landings unless under an emergency situation. Any emergency landings will be reported to the GN wildlife biologist and the KIA and will be documented in the annual report.

Caribou Mitigation Measures (attached to this document) are to be strictly followed. Special caribou protection measures are required for areas of Nunavut so as to avoid disturbance of migrating and calving herds.

Bear Safety Training will be provided. All employees and contractors will receive Bear Safety Training. Bear safety information and material will be kept in a binder on site. The Government of the Northwest Territories published the "Territorial Safety in Bear Country Manual". This document will be referred to in the safety orientation that all personnel, contractors and consultants receive when they arrive at site. A copy of the manual will be kept at the camp office and in Vancouver in the head office.

If bears are present in the area, work will cease until the bears have moved safely out of the area. All human-bear interactions are to be reported immediately to the KIA, the Government of Nunavut Department of Environment, Environment Canada, HTO's and the Government of Nunavut Wildlife Biologist.

All den sites are to be avoided. If a den site is discovered, the GPS coordinates will be recorded so that the site can be avoided. These coordinates will be provided to the appropriate regulatory authorities. No dens are to be disturbed.

Any exploration activities within the den buffers stated below will cease immediately. The following buffers are provided (by the Government of the Northwest Territories) for active dens between the den and all exploration activities between May 1st and July 15th:

Wolves	800m buffer
Grizzly Bear	300m buffer
Wolverine	2km buffer
Fox	150m buffer

Bear incidents and/or interactions, and wolf or fox den sightings will be reported immediately to:	
Bob Hansen, GN wildlife deterrent specialist bhansen@gov.nu.ca	867-934-2075
Rob Harmer, Sr. CO, Baker Lake District, GN, smedill@gov.nu.ca ,	867-934-2075
Bear sightings/incidents and large herd sightings will be reported to	
Mitch Campbell, GN Biologist, Kivalliq Region	867-857-2828
Jonathan Pameolik, GN Wildlife Manager, Arviat	867-857-2828
Stephen Hartman, KIA, SHartman@kivalliqinuit.ca	
Luis Manzo, KIA, Director of Lands	
Jeff Tulugak, KIA , Lands Inspector	867-645-2800
Russell Toolooktook, CO Baker Lake, GN, , rtoolooktook@gov.nu.ca ,	867-793-2944

Breeding Birds are not to be disturbed. No eggs or nests are to be disturbed by any activities. If any employee or contractor comes across any active nests, they are to cease all activities immediately to ensure that the nest is not disturbed. Coordinates are to be recorded on the wildlife sighting sheets and these coordinates are to be reported to Environment Canada. Moving or disturbing the nest of a migratory bird is in contravention of the Migratory Birds Convention Act.

The peregrine falcon has been identified as species of Special Concern by COSEWIC. If any nests are found, a buffer must be maintained. A 1.5 km buffer is recommended for the peregrine falcon. Any nests discovered will be recorded and the GPS coordinates provided to the applicable regulatory authorities and interested parties.

Sightings of wildlife will be recorded. Sightings of wildlife will be reported by all employees and contractors to an appointed staff member who will record the wildlife sighting information into the Kivalliq Energy Wildlife Incidental Observation Spreadsheet. This information will be reported in the required annual reports provided to various regulatory agencies.

Aquatic Life will be protected. Working in and around waterbodies must be done in such a way that prevents disturbance to aquatic life and habitat.

Waterlines must be properly placed and screened in accordance with the “Freshwater Intake End-of-Pipe Screen Guideline” (DFO). No wastes are to enter any water-bodies. This includes any discharge from any exploration camp.

All sumps, fuel caches and camps must be located at least 31 metres from the high water mark of any water-body unless otherwise approved by the appropriate regulatory authority.

Waste will be managed properly. Proper food storage and handling of cooking wastes will

prevent problems with attracting wildlife. Food waste will be stored such that it is not accessible to wildlife and will be burned in an incinerator on a regular basis. Nuisance wildlife will be reported immediately.

Firearms will only be carried for safety reasons. Firearms may be carried for safety reasons, but only if such firearms are properly registered and stored in accordance with applicable legislation. All firearm discharges must be reported to the Project Manager.

Archaeological sites will be recorded and are not to be disturbed. If any archaeological sites are discovered they are not to be disturbed, the GPS coordinates will be recorded and reported to the Government of Nunavut and the Kivalliq Inuit Association.

PREDICTED IMPACTS TO WILDLIFE

Exploration programs are generally small in nature and operated seasonally in the northern regions due to weather limitations. Although camps are established and maintained over the course of the project, they are temporary and can be completely dismantled and removed easily and in a short period of time. The camp for the Angilak Project consists of tents with floorboards and is operated seasonally. In developing mitigation measures toward the protection of wildlife, Kivalliq Energy Corporation has identified three areas of potential impact to wildlife due to the presence of this project. These are:

- Attracting wildlife;
- Habitat disturbance; and
- Unintentional interactions and disturbances.

Attracting Wildlife

Every effort will be made to ensure that wildlife are not attracted or encouraged to linger at the project. These efforts will include:

- Waste handling practices – All waste will be stored such that it is not accessible to wildlife. Food wastes will be incinerated on a regular basis to limit odours which could attract wildlife.
- Strict rules regarding feeding wildlife – Any personnel, contractor or consultant found to be feeding wildlife will be terminated immediately.
- Keeping lunches out of reach – Field crews and drill crews will store their lunches so that they are not accessible to wildlife. All food wastes, wrappers, drink containers are to be brought back to camp for disposal, recycling and/or cleaning.
- Keeping work areas clean and tidy – Field crews and drill crews will keep the work areas free of litter and garbage. No food or beverage will be dumped out or left behind, this includes thermos'.

Habitat Disturbance

Habitat disturbance at exploration programs is temporary and is the result of drilling and infrastructure. Progressive reclamation is to be practiced at site, meaning that before an area is left, every effort will be made to reclaim and restore the area. Refer to the Kivalliq Energy Corporation closure and reclamation plan.

Unintentional Interactions and Disturbances

The potential exists for unintentional wildlife interactions and disturbances despite best efforts to avoid them. These interactions and disturbances will be documented, reported immediately to the GN and the KIA and will be reported in the required annual reports.

MITIGATION MEASURES

CARIBOU

A one (1) km buffer will be used as a measure of a safe distance for working in areas where migrating caribou are present. If migrating caribou and/or caribou cows and calves come within 1km of any work site, work activities will cease until the caribou have moved safely beyond (1km) of the area.

Outside of the migration window, if caribou approach the work site, workers will remain out of sight where possible, will not approach the caribou and will cease activities that incidentally draw the attention of the caribou or cause them to flee.

Helicopter flights will maintain a 300m altitude whenever possible, and 610 m where migrating caribou, and/or caribou cows and calves are present. Absolutely no landings will be allowed in areas where migrating caribou and/or cows and calves are present. Helicopter and aircraft pilots will be instructed that they are not to fly over the caribou calving grounds on their way to or from the project area.

Helicopter pilots will be instructed that they are not to fly over caribou in a way to cause them to change behavior, run or flee at any time, within or outside of migration. If such an interaction should occur incidentally, helicopter pilots will be instructed to divert and/or change altitude as quickly as safely practicable.

Crossings – Between May 15 and September 1, no fuel cache will be established, and no blasting is to occur within 10km of a “designated caribou crossing”. As well, no drilling is to be conducted within 5km. Absolutely no activities will act as a block or in any way cause a diversion to migration of caribou.

Airborne Geophysical Surveys – Prior to conducting any low-level airborne geophysical surveys the Kivalliq Inuit Association will be contacted and the following information will be provided; dates of surveys, location of surveys, how long the surveys will take to complete. As well, the locally hired wildlife monitors will be required to conduct a survey of the area to ensure that there are no wildlife present and will monitor for wildlife during the survey. If caribou and/or muskox are seen in the area, the geophysical survey will not be flown until they have moved a safe distance (at least 1 km) from the area to be surveyed.

I have read and agree to the Kivalliq Energy Corporation Wildlife and Environmental Mitigation Measures outlined in the above document:

Signature: _____

Date: _____

APPENDIX F

NU Spill Report 14-234 and 2BE-ANG1318 Water Licence Inspection Form July 22, 2014



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR June 23 2014	REPORT TIME 3:00 pm	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR		REPORT NUMBER 14 -234
	OCCURRENCE DATE: MONTH – DAY – YEAR Spring 2014	OCCURRENCE TIME Undetermined	<input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		
C	LAND USE PERMIT NUMBER (IF APPLICABLE) N2012C0030	WATER LICENCE NUMBER (IF APPLICABLE) 2BE-ANG1318			
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Nutaaq Camp, Angilak Property, NU		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 62 MINUTES 34 SECONDS 17	LONGITUDE DEGREES 98 MINUTES 27 SECONDS 21			
	RESPONSIBLE PARTY OR VESSEL NAME Kivalliq Energy Corporation	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 1020 800 West Pender Street			
G	ANY CONTRACTOR INVOLVED None	CONTRACTOR ADDRESS OR OFFICE LOCATION			
	PRODUCT SPILLED P50	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 1/2 drum (100 litres estimate)	U.N. NUMBER 1202		
H	SECOND PRODUCT SPILLED (IF APPLICABLE)	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER		
	SPILL SOURCE 205 litre Drum	SPILL CAUSE Broken Valve from Tipped Drum	AREA OF CONTAMINATION IN SQUARE METRES 1 square metre		
I	FACTORS AFFECTING SPILL OR RECOVERY Remote Location	DESCRIBE ANY ASSISTANCE REQUIRED	HAZARDS TO PERSONS, PROPERTY OR ENVIRONMENT None		
	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS The Nutaaq camp at the Angilak property is a remote tent camp, 225 km southwest of Baker Lake, NU. The camp comprises temporary plywood buildings and twelve 14x16 vinyl WeatherPort tents on plywood floors situated on a flat top sand esker approx 8 metres above the surrounding tundra. The nearest water body Nutaaq Lake is approx. 200 metres west of the spill site. 2 workers sent to inspect the site on the weekend noted that tent W5 was lifted off its foundations by wind and moved 4 metres south. An adjacent fuel drum was knocked over. The impact cracked a fuel valve connection at the drum causing a fuel leak. A surface stain of approximately 1 sq. metre is noted. The spill did not enter any water body or drainage. Contaminated soils were excavated to a depth of approx. 1 metre by the workers using shovels. The contaminated soil has been contained in four 205 litre drums. The drums will be removed from site and disposed of at an authorized facility. Photo's are attached.				
L	REPORTED TO SPILL LINE BY Bill Cronk	POSITION Exploration Manager	EMPLOYER Kivalliq Energy Corp	LOCATION CALLING FROM Nutaaq Camp	TELEPHONE 604-759-4750
	ANY ALTERNATE CONTACT Maria Egerton	POSITION Permitting	EMPLOYER Kivalliq Energy Corp	ALTERNATE CONTACT LOCATION Vancouver	ALTERNATE TELEPHONE 604-646-4527
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
	LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC		SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY	CONTACT NAME		CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

Kivalliq Energy Corp.
Photo Document to accompany June 23, 2014 NU Spill Report



Photo 1: Tent W5 Shifted 4m South From Tent Footings (note: Nutaq Lake 200m West)



Photo 2: Spill Location and Excavated Pit



Photo 3: Excavated Pit behind Tent W5 & Toppled Tent Footings



Photo 4: Broken Valve on Fuel Drum



WATER LICENCE INSPECTION FORM

Original
 Follow-Up Report

Licensee	Licensee Representative
Kivalliq Energy Corporation	Bill Cronk
Licence No. / Expiry	Representative's Title
2BE-ANG1318	Exploration Manager
Land / Other Authorizations	Land / Other Authorizations
N2012C0030	KVL308C09
Date of Inspection	Inspector
22/07/14	WRO Wilson
Activities Inspected	
<input checked="" type="checkbox"/> Camp <input checked="" type="checkbox"/> Drilling <input type="checkbox"/> Mining <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Reclamation <input checked="" type="checkbox"/> Fuel Storage <input type="checkbox"/> Roads/Hauling <input type="checkbox"/> Other: Water Discharge <input type="checkbox"/> Other:	

Conditions: **A - Acceptable** **C - Concern** **U - Unacceptable** **NA – Not Applicable** **NI – Not Inspected**

Water Use	Condition	Comment	Site Conditions	Condition	Comment	Haz/Mat Management	Condition	Comment
Intake/Screen	NA		Water Management Structures	A	10	Storage	A	10
Flow Measure. Device	A	2	Culverts / Bridges	NA		Spills	A	13
Source: Nutaaq	A	1	Drainage	A	12	Spill Plan	A	10,13
Water Use: .07m ³	A	2	Erosion / Sediment	A	12			
Recirculation (y/n)	A	3	Mitigation Measures	NA		Administrative		
			Reclamation Activities	A	9	Records	A	2
			Materials Storage	A	11	Reports	A	15
Waste Disposal			Signage	NA		Plans	NI	9,14
Waste Water	A	4,7				Notifications	A	13
Solid Waste	A	5	Monitoring			Other		
Hazardous Waste	A	6	Sample Collection / Analysis	NA				

**The number in the comments field will correspond with specific comments provided below.*

Samples taken by Inspector:	Location(s):
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

SECTION 1 **Comments (s. ...)** **Non-Compliance with Act or Licence (s. ...)** **Action Required (s. ...)**

At the time of the inspection the Nutaaq camp was inactive. The Inspector was accompanied by Bill Cronk and David Taylor of Kivalliq Energy Corporation during the inspection of the Angilak Lake Project's associated sites.

WATER USE

- 1) Raw water is drawn from Nutaaq Lake to the camp daily, using 5 gallon buckets. With the short annual maintenance program being conducted at the time of the inspection, the camp only requires a small amount of water.
- 2) The proponent is recording the volume of water used daily during the short program as required under PART B item 4. At the request of the Inspector the water usage records were provided for the date of July 22nd, 2014 as per PART J item 1 of the current water licence.
- 3) The proponent has applied for an amendment to the total daily water allotment. This amendment was anticipator of the clarification on the definition of water use. Currently the licence daily waster use is 100 m³. The amendment requests for a total of 300m³ per day.

WASTE

- 4) Grey water is directed to a constructed sump box located within the esker where the camp is situated.
- 5) Domestic waste and toilet waste is incinerated in a dual fired incinerator with the ash containerized and backhauled as required under PART item 3, 4 and 6.
- 6) Hazardous waste is sorted and backhauled offsite to an approved waste disposal facility.

DRILL WASTE

- 7) Drill waste is collected and secured into a central sump. The location appears to be ideal for securing the cuttings as required under PART F item 3 and in this terrain appears to be best practice with regards to remediation of drills sites.
- 8) The proponent has 4 drills in total on the project.
- 9) The Abandonment and Reclamation Plans for drill site remediation was observed to be implemented though one of the locations had some issues with damage caused by wildlife. The proponent had initiated a plan to address the required maintenance and complete additional progressive reclamation activities for 2014.

SITE CONDITONS

- 10) The fuel storage areas have secondary containment, water treatment systems and spill kits.
- 11) The Nutaaq camp is well kept and tidy. Materials are stored appropriately and are secured from weather and wildlife.
- 12) The camp is located on durable ground.



SPILL

13) In the spring of 2014 a spill occurred behind weather haven W5. Upon discovery the spill was reported to the NWT/NU spills line and the Inspector. At the time of the inspection efforts were underway to remediate the affected area. The proponent, in discussion with the Inspector, has commit to a Remedial Action Plan that will address the monitoring of the spill this year until the remediation is completed in 2015. The Inspector notes the care Kivalliq Energy Corporation takes when handling hazardous materials and fuel storage. The Inspector encourages the use of over pack drum stands for fuel storage behind the tents in camp.

ADMINISTRATIVE

- 14) The Proponent will provide the Inspector with a copy of the updated version of the Uranium Exploration Plan as required under PART F item 1, sixty (60) calendar days from the date of inspection.
- 15) The 2013 annual report was submitted and is available for review on the Nunavut Water Board ftp site.

SECTION 2 **Comments (s. 2)** **Non-Compliance with Act or Licence (s.2)** **Action Required (s. 2)**

The Nutaaq camp is a fine example of exploration best practice in Nunavut. No non-compliance was noted.

SECTION 3 **Comments (s. 3)** **Non-Compliance with Act or Licence, (s. 3)** **Action Required (s.3)**

- Remedial Action Plan for the spill behind weather haven W5 which will include a date of completion for the remedial measures.
- Copy of the Uranium Exploration Plan or a document similar by September 2nd, 2014.

Licensee or Representative	Inspector's Name WRO C. Wilson
Signature	Signature
Date	Date

Office Use Only: Follow-up report to be issued by Inspector Yes No

APPENDIX G
2014 CONTRACTOR SERVICES

2014 Contractor Services

Baker Lake NU

Ookpik Aviation Ltd.
Aviation Fuel Enterprises
Nunamuit Lodge
Northwest Company Inc.
SK Construction Ltd
Sanavik Co-op Association Inc.
Baker Lake Lodge
Baker Lake Contracting & Supplies Ltd.

Arviat NU

Padlei Inn

Rankin Inlet NU

Kissarvik Co-op Inns
M&T

British Columbia

Raymac Environmental Services Inc.
Black Mountain Mapping
Blender Media
Hemmera Envirochem Inc.
JDS Energy and Mining Inc
Lockett Consultation Services Inc.
Western Industrial Distributors
Corporate Travel
Tomra Sorting Solutions
Gebauer & Associates Environmental Consultants
Ooleepeeka Consulting Ltd.

Alberta

Apex Geoscience Ltd.
Taiga Consultants Ltd.
InfoSat Communications
Globetrotter Travel and Cruise Centre
EBA Engineering Consultants Ltd.

Saskatchewan

SRC Geoanalytical Laboratories

Manitoba

Four Points Sheraton Hotels

Ontario

SGS Canada Inc Mineral Services
Manitoulin Transport
ActLabs

Quebec

First Air

Yellowknife NT

Discovery/Nunavut Mining Services
Great Slave Helicopters/Kivallingmiut Aviation Inc. Medic
North
Northern Communications
KBL Environmental
Force One
Ron's Auto Service and Equipment Rentals
Superior Propane
Weatherby Trucking
Weaver and Devore Trading Ltd
True Value Hardware
Crother's Home Building Centre
Canadian Tire
Staples Business Depot Ltd.
RTL Robinson Enterprises Ltd.

APPENDIX H
COMMUNITY CONSULTATION LOG

Community Communication/Consultation Log
Kivalliq Energy
Angilak Project

Last update: February 4, 2014 16:12 PT

(Acronyms:) KIA = Kivalliq Inuit Association, CLO = Community Liaison Officer, SAO = Settlement Administrative Officer, GN = Government of Nunavut, HTO = Hunters and Trappers Association, MLA = Member of the Legislative Assembly, CEDO = Community Economic Development Officer,
Community Tours/Visits

Date	Time	Contact	Details
May 4, 2009		David Ningeongan ,President/General Manager , Kivalliq Expediting and Storage Inc	Letter to, from JW re: support of business
June 10, 2009	10:58	Jackson Lindell, Luis Manzo, KIA	e-mail to, from DL re: draft consultation plan and request meeting on July 6
June 10, 2009	10:58	Paul Waye, SAO Rankin Inlet	e-mail to, from DL re: draft consultation plan and request meeting on July 6
June 10, 2009	11:08	Baker Lake SAO, Economic Development Officer, Community Liaison Officer (KIA)	e-mail to, from DL re: draft consultation plan and request meeting on July 7
June 10, 2009	11:10	Whale Cove SAO and Community Liaison Officer (KIA)	e-mail to, from DL re: draft consultation plan and request meeting on July 8
June 10, 2009	11:17	Arviat SAO, HTO, CLO (KIA), MLA	e-mail to, from DL re: draft consultation plan and request meeting on July 9
June 10, 2009	14:32	Arviat SAO	Telephone call from, to DL re: July 9 Nunavut Day
June 11, 2009	08:05	Leah Muckpah, Arviat HTO	e-mail from, to DL re: meeting advice and July 9 Nunavut Day
June 11, 2009	10:15	Lean Muckpah, Arviat HTO	e-mail to, from DL re: meeting advice and July 9 Nunavut Day
June 11, 2009	09:11	Leah Muckpah, Arviat HTO	e-mail from, to DL re: meeting advice and July 9 Nunavut Day
June 11, 2009	09:39	Leah Muckpah, Arviat HTO	e-mail to, from DL re: meeting advice and July 9 Nunavut Day
June 11, 2009	12:05	Jenny Kalluak, A/SAO Arviat	E-mail from, to DL re: meeting advice and July 9 Nunavut Day
June 12, 2009	09:05	Jenny Kalluak, A/SAO Arviat	e-mail to, from DL re: meeting advice and July 9 Nunavut Day
June 12, 2009	09:31	Eva Alikut, KIA CLO	e-mail from, to DL: re: meeting conflict in Arviat re: Nunavut Day

June 12, 2009	09:34	Jenny Kalluak, A/SAO, Arviat MLA, Leah Muckpah HTO, Eva Alikut KIA CLO	e-mail to, from DL: rescheduled meeting in Arviat and request for advice re: meeting arrangements.
June 15, 2009	11:34	Chief Medical Officer, Nunavut	Telephone call to, from DL re: H1N1 in NU Territory and advice re: community consultation. Left message and asked to return call.
June 15, 2009	11:45	Chief Medical Officer, Nunavut	Telephone call from, to DL: re advice re: H1N1 in Nunavut and suggested that community consultation be delayed at this time.
June 15, 2009	12:59	Eva Alikut KIA CLO Arviat, Jenny Kalluak A/SAO Arviat, Leah Muckpah Arviat HTO, MLA Arviat, SAO Rankin Inlet, SAO Whale Cove, SAO Baker Lake, EDO Baker Lake, KIA: Luis Manzo, Patrick Tagoona, Jackson Lindell, CLO Whale Cove,	e-mail to, from DL request to reschedule meeting due to H1N1 health hazard in Nunavut. Request for feedback re: week of August 4.
June 15, 2009	13:09	Eva Alikhut KIA CLO, Arviat	e-mail from, to DL re: thanks for notice. Will advise.
June 16, 2009	07:37	Minnie Niego, CLO Baker Lake	e-mail from, to DL re: thanks for notice. Will advise.
June 16, 2009	09:43	Minnie Niego, CLO Baker Lake	e-mail to, from DL re: confirmation to ensure understanding that meeting has been changed to August
June 16, 2009	09:24	Minnie Niego, CLO Baker Lake	E-mail from, to DL re: confirmation of understanding that meeting has been changed to August 09.
July 17, 2009	08:30	Chief Medical Officer, Nunavut	Phone call to, from DL re: suitability to travel to Nunavut
July 19, 2009	09:00	Chief Medical Officer, Nunavut	Phone call to, from DL: re suitability to travel to Nunavut
July 20, 2009	10:00	Chief Medical Officer, Nunavut	Phone call from, to DL re: okay to travel to Nunavut but recommend contacting community leaders
July 20, 2009	10:30	Eva Alikut KIA CLO Arviat, Jenny Kalluak A/SAO Arviat, Leah Muckpah Arviat HTO, MLA Arviat, SAO Rankin Inlet, SAO Whale Cove, SAO Baker Lake, EDO Baker Lake, KIA: Luis Manzo, Patrick Tagoona, Jackson Lindell, CLO Whale Cove	e-mail to, from DL re: confirm meetings for week of August 4 2009 and attached meeting posters
July 20, 2009	09:56	Eva Alikut, KIA CLO	E-mail from, to DL re: suitability of meeting in Arviat due to death in community (H1N1)
July 20, 2009	11:43	Eva Alikut, KIA CLO	E-mail from, to DL re: suitability of meeting in Arviat August 7
July 20, 2009	09:52	Paul Wayne, SAO Rankin Inlet	e-mail from, to DL re: confirmation of availability to meet on

			August 4
July 20, 2009	09:56	Eva Alikut, KIA CLO	e-mail from, to DL re: suitability of meeting in Arviat August 7
July 20, 2009	13:09	Eva Alikut, KIA CLO	e-mail to, from DL re: suitability of meeting in Arviat August 7
July 21, 2009	08:42	Jackson Lindell, Luis Manzo KIA	e-mail to, from DL re: request for meeting
July 21, 2009	13:52	Jenny Kalluak, Arviat SAO	e-mail from, to DL re: meeting in Arviat
July 27, 2009	09:28	Eva Alikut, KIA CLO	e-mail from, to DL re: translator and meeting hall arrangements
July 30, 2009	05:57	Jackson Lindell, Luis Manzo KIA	e-mail to, from DL re: request for meeting
July 30, 2009	05:56	Eva Alikut, KIA CLO	e-mail to, from DL re: request for translator and meeting hall
July 30, 2009	06:05	Jenny Halluak, Arviat SAO	e-mail to, from DL re: arrangements for meeting
July 30, 2009	14:41	Leah Muckpah, HTO Arviat	e-mail from, to DL re: meeting with HTO
July 31, 2009	07:09	Leah Muckpah, HTO Arviat	e-mail to, from DL re: community meeting
July 31, 2009	07:00	Jackson Lindell, KIA	Phone call to, from DL re: meeting with KIA/CLARC
July 31, 2009	09:44	Jackson Lindell, KIA	e-mail from, to DL re: CLARC meeting
July 31, 2009	09:48	Jackson Lindell, KIA	e-mail from, to DL re: unable to attend meeting, with ask Luis Manzo
July 31, 2009	10:12	Luis Manzo, KIA	e-mail to, from DL re: meeting with CLARC/KIA
July 31, 2009	10:49	EDO/SAO/KIA CLO Baker Lake	e-mail to, from DL re: reminder of public meeting and enclosed meeting poster
July 31, 2009	10:53	EDO/SAO/KIA CLO Whale Cove	e-mail to, from DL re: reminder of public meeting and enclosed meeting poster
July 31, 2009	10:56	EDO/SAO/KIA CLO Arviat	e-mail to, from DL re: request confirmation of meeting in Arviat Aug 7.
July 31, 2009	10:31	Tara Tootoo-Fotheringham	e-mail to, from DL re: recommendation for translation for Rankin Inlet meeting
July 31, 2009	10:37	Tara Tootoo-Fotherinham	e-mail from, to DL re: confirmation of translator
July 31, 2009	11:12	Jenny Halluak, Arviat SAO	e-mail from, to DL re: arrangements for meeting in Arviat
July 31, 2009	12:16	Jenny Halluak, Arviat SAO	e-mail to, from DL re: thanks for arrangements
July 31, 2009	11:30	Eva Alikut, KIA CLO Arviat	e-mail from, to DL re: recommendations for translators
July 31, 2009	12:17	Eva Alikut, KIA CLO Arviat	e-mail to, from DL re: thanks for translator recommendation
July 31, 2009	12:25	Bobby Suluk	e-mail to, from DL re: translation at Arviat meeting
July 31, 2009	12:33	Bobby Suluk	E-mail from, to DL re: availability to translate in Arviat
Aug 4, 2009	09:38	Veronica T (KIA)	e-mail from, to DL re: confirmation of meeting with KIA

Aug 4, 2009	14:16	Veronica T (KIA)	e-mail from, to DL re: confirmation of translator
Aug 4, 2009	15:00	Rankin Inlet: Luis Manzo (KIA) Karen Costello (INAC)	Meeting at KIA office re: project update , discussion re: inspections
Aug 4, 2009	17:00	Rankin Inlet: Luis Manzo, Jackson Lindell, Russell E	casual conversation and introductions. Informed by KIA of camp inspection
Aug 4, 2009	19:00	Rankin Inlet: KIA CLARC: Jack Kabritok, Celestino Makpah, Jerome Tatuinee. David and Anne Ningeonan, Translator Thomas Tiktak.	Public Meeting: Presentation on project, questions re: caribou migration.
Aug 5, 2009	06:35	Rankin Inlet: Veronica T (KIA)	e-mail from, to DL re: query how meeting went and if CLARC attended
Aug 5, 2009	07:00	Rankin Inlet: Veronica T (KIA)	e-mail to, from DL re: confirmation that CLARC attended meeting and thanks for all assistance
Aug 5, 2009	07:52	Eva Ailkut, KIA CLO Arviat	e-mail from, to DL re: meeting in Arviat
Aug 5, 2009	10:49	Eva Ailkut, KIA CLO Arviat	e-mail to, from DL re: confirming meeting in Arviat
Aug 5, 2009	09:31	John Main, GN Arviat	e-mail from, to DL re: meeting in Arviat
Aug 5, 2009	10:00	John Main, GN Arviat	e-mail to, from DL re: meeting in Arviat
Aug 5, 2009		CLO Baker Lake, EDO Baker Lake, SAO Baker Lake	e-mail to, from DL re: reminder of meeting in Baker Lake
Aug 5, 2009	11:24	Minnie Niego, CLO Baker Lake	e-mail from, to DL re: meeting in Baker Lake
Aug 5, 2009	11:30	Minnie Niego, CLO Baker Lake	e-mail to, from DL re: translator and confirmation of meeting
Aug 5, 2009	18:30	Community radio Baker Lake	Announcement of public meeting
Aug 5, 2009	19:00 to 20:30	Baker Lake: Joe Scottie, Sam Itkilik (KIA IIBA coordinator), Ludy Kingilik, Nancy A., Abner Kalukaq, Mary Uqayuittuq, Sam Itkilik, Annie Anautalik, Percy Tutannuaq, (name in syllabics)	Public Meeting: presentation on project. Questions:
Aug 6, 2009	07:31	CLO Whale Cove, SAO Whale Cove	e-mail to, from DL re: reminder of meeting in Whale Cove and requirement for translator and refreshments
Aug 6, 2009	08:52	Eva Ailkut, KIA CLO Arviat	e-mail from, to DL re: CLARC invited to meeting, offer to distribute meeting poster
Aug 6, 2009	09:42	Eva Ailkut, KIA CLO Arviat	e-mail to, from DL re: attached meeting poster for distribution
Aug 6, 2009	09:30-21:30	Whale Cove : Percy Kabloona, Mrs. Kabloona, Agnes Kabloona, Eva, Solomon ,	Public meeting (moved from 7:30 due to bingo) to 8:30. Informal presentation on Project: Questions regarding

		Martha + 6 other persons	Starfield's Ferguson Lake Project. Community showed interest in Kivalliq Energy's project and commitment to keep the community informed.
Aug 7, 2009	07:36	Eva Ailkut, KIA CLO Arviat	E-mail from, to DL re: taxi from airport to hotel
Aug 7, 2009	19:15 to 20:30	Arviat: Mayor Bob Leonard, Bobby Suluk (translator), Cyril Kamakjuak, Mike Beauregard (GN district geologist), John Main (GN), Tommy (KIA/HTO/Sakku), James Konek, Agnes Eetak, Linda Anikgak, Leonard Inksuk, Yvon Iootna, Lena Arviyut, Janet Nungnik, Vera Auktluk, Pamar, Elizabeth St. John, Shawna Sewoee, Jack Noel Koomak, Joseph Kinniksie, Karen Anikgak, Annie Koomak, Phillip Kingusiutnak, Eva Alikut, John Nungnilk, Clarissa Aniksak, Chelsea Aniksak, Martha Panigoniak, Sarah Iootna, Johnny Aupaq, Methuselah Aniksak, Nellie Nagurau, Angelina Suluk, Basil Kayavinik, Jerald Aliktuluk, Josephine Pingushat, Susan Anowtalik, Leo Mukjunik, Murray, Norman Alikut, Sarah Anowtahik, Louisa Pingushat, Pargaret Pingushat, Peter 2, Linda Arloo, Josepha Anowtahik, Bonnie Kukesuk, Aivraq Qulokuk, Elizabeth Pingushat, Mary Sewoee, Cecilia Akammak, Joe Jr. Ishalook, Leonie Illungiyok, Emily Eetak, Linda Kaviok, Cecilia Sewoee, Timothy I, Paul Alikaswa, Zachary Sewoee, Eleanora Illungiyok, T. Ubluriak, Laura Anowtalik, Helen Konek, (62 persons)	Public Meeting: presentation on project. Questions on exploration methods, jobs.
Aug 13, 2009		Arviat: Mayor Bob Leonard & Council, KIA Director, CLO & CLARC, HTO, MLA	Thank you for welcome into community, synopsis of presentation including background information of company, maps and presentation. Contact if any questions, comments or

			concerns.
Aug 13, 2009		Rankin Inlet: Mayor John Hicks & Council, KIA Director & CLARC, HTO, MLA's Lorne Kusugak & Tagak Curley	Thank you for welcome into community, synopsis of presentation including background information of company, maps and presentation. Contact if any questions, comments or concerns
Aug 13, 2009		Whale Cove: Mayor Percy Kabloona & Council, KIA Director, CLO & CLARC, HTO, MLA Lorne Kusugak	Thank you for welcome into community, synopsis of presentation including background information of company, maps and presentation. Contact if any questions, comments or concerns
Aug 13, 2009		Baker Lake: Mayor David A & Council, KIA Director, CLO & CLARC, HTO, MLA	Thank you for welcome into community, synopsis of presentation including background information of company, maps and presentation. Contact if any questions, comments or concerns
Aug 10, 2009	09:34	Eva Alikut, Arviat KIA CLO	E-mail from, to DL re: request for printed copy of presentation to share with community
Aug 10, 2009	11:34	Eva Alikut, Arviat KIA CLO	E-mail to, from DL re: letters and presentation copies etc will likely be sent out before the end of the week
Aug 18, 2009		Alice Baker, Avativut Nunavut	Letter to, from Jeff Ward re: response to request for information
Aug 26, 2009	14:40	Bobby Suluk, Arviat	e-mail from, to JW re: thank you for contribution
Sept 4, 2009	21:09	Alice Baker, Avativut Nunavut	e-mail from, to NWB re: concerns regarding backhauling to Rankin Inlet and hazardous waste disposal
Nov 9, 2009		Andrew Kiem, INAC	Letter to, from JW re: response to inspection
Nov 16, 2009		Julie Ross, GN CLEY	Letter from, to NWB re: Angilak Project comments regarding archaeological concerns
Nov 20, 2009		Allison Loder, DOE	Letter from, to NWB re: Angilak Project Amendment Request, comments
Nov 20, 2009		Carrie Spavor, EC	Letter from, to NWB re: Angilak Project – Amendment – Type “B” Water License – comments
Nov 24, 2009	08:53	Brian Aglukark, NPC	Letter from, to JW re: no conformity determination required with NPC on camp relocation
Jan 25, 2010	08:59	Richard Dwyer, NWB	e-mail from , to Jeff Ward re: letter from Thomas Kabloona, approved amendment No 1 to Licence No 2BE-ANG0813 Type

			"B" including terms and conditions
Jan 26, 2010	09:41	SAO Rankin Inlet, CEDO Rankin Inlet, KIA, SAO Whale Cove, CEDO Whale Cove, KIA CLO Whale Cove, SAO Arviat, CEDO Arviat, KIA CLO Arviat, SAO Baker Lake, CEDO Baker Lake, KIA CLO Baker Lake, Barry McCallum (Areva), Larry Connell (Agnico Eagle)	e-mail to, from DL determine interest and availability for Kivalliq Energy community consultation week of March 23.
Jan 26, 2010	09:50	Barry McCallum (Areva)	e-mail from, to DL re: no conflict that he is aware of
Jan 26, 2010	12:50	Veronica Tattuinee, KIA Lands Administrator	e-mail from, to DL re: no conflicts that she is aware of
Jan 26, 2010	09:46	Paul Waye, SAO Rankin Inlet	e-mail from, to DL re: no conflict, happy to meet
Jan 26, 2010	11:48	Shawn Trépanier, SAO Whale Cove	e-mail from, to DL re: no conflict for meeting, booked hall, mayor and councilors also available to meet
Jan 26, 2010	16:50	Veronica Tattuinee, KIA Lands Admin	e-mail to, from DL re: confirm availability of KIA CLARC to meet
Jan 27, 2010	06:36	Veronica Tattuinee, KIA Lands Admin	e-mail from, to DL re: confirmed availability of KIA CLARC to meet
Jan 27, 2010	08:36	John Main, CEDO Arviat	e-mail from, to DL re: confirm availability to meet on March 25
Jan 27, 2010	14:26	Shawn Trepanier, SAO Whale Cove	e-mail to, from DL re: query hall availability, catering and translation
Jan 27, 2010	14:29	Shawn Trepanier, SAO Whale Cove	e-mail from, to DL re: suggestion to call caterer, provided contact information, will find a translator and advise.
Jan 27, 2010	16:00		NTI/Kiv Dinner Meeting
Feb 2, 2010	12:33	Damian MacInnis, CEDO RI	e-mail from, to DL re: confirmation that Council has a meeting March 22 and hopes that it will not interfere with KIV meeting
Feb 4, 2010	10:26	Damian MacInnis, CEDO RI	e-mail to, from DL: confirming there should be no meeting conflict as KIV meeting will be in the evening
Feb 12, 2010	12:07	John Mains, CEDO Arviat	e-mail to, from DL re: arrangements for meeting
Feb 12, 2010	11:07 + 11:26	John Mains, CEDO Arviat	e-mail from, to DL re: arrangements for meeting
Feb 12, 2010	12:24	KIA, SAO Whale Cove, CEDO Whale Cove, CLO Whale Cove, SOA Rankin Inlet, CEDO Rankin Inlet, SAO Arviat, CEDO Arviat, CLO Arviat, SAO Baker Lake, CEDO Baker Lake, CLO Baker Lake	e-mail to, from DL with attached meeting poster for distribution in communities
Feb 12, 2010	11:29	Elizabeth Voisey, CLO Whale Cove	e-mail from, to DL re: suggestions for translators

Feb 12, 2010	14:36	Leah Mukpah, HTO Arviat	e-mail from, to DL re: meeting arrangements
Feb 12, 2010	14:46	Judy Issakiart, CLO Arviat	e-mail from, to DL re: meeting arrangements
Feb 12, 2010	14:50	Leah Mukpah, HTO Arviat	e-mail to, from DL re: thanks for meeting advice
Feb 12, 2010	14:52	Judy Issakiart, HTO Arviat	e-mail to, from DL re: thanks for meeting advice
Feb 15, 2010	09:27	Hugh Iko, Baker Lake	e-mail to, from DL re: request for translation services
Feb 15, 2010	09:29	Bobby Suluk, Arviat	e-mail to, from DL re: request for translation services
Feb 15, 2010	09:35	Bobby Suluk, Arviat	e-mail from, to DL re: recommendation for translation services
Feb 15, 2010	09:45	Bobby Suluk, Arviat	e-mail to, from DL re: thanks for translation services advice
March 3, 2010		Mayor & Council, Hamlet of Rankin Inlet	Letter to: informing of upcoming community consultation
March 3, 2010		Rankin Inlet HTO Manager & Directors	Letter to: informing of upcoming community consultation
March 3, 2010		Mayor & Council, Hamlet of Baker Lake	Letter to: informing of upcoming community consultation
March 3, 2010		Baker Lake HTO Manager & Directors	Letter to: informing of upcoming community consultation
March 3, 2010		Baker Lake KIA Director, & CLARC	Letter to: informing of upcoming community consultation
March 3, 2010		Mayor & Council, Whale Cove	Letter to: informing of upcoming community consultation
March 3, 2010		Whale Cove HTO Manager & Directors	Letter to: informing of upcoming community consultation
March 3, 2010		MLA Rankin Inlet South & Whale Cove	Letter to: informing of upcoming community consultation
March 3, 2010		MLA Rankin Inlet North	Letter to: informing of upcoming community consultation
March 3, 2010		MLA Baker Lake	Letter to: informing of upcoming community consultation
March 3, 2010		Whale Cove KIA Director & CLAR	Letter to: informing of upcoming community consultation
March 3, 2010		MLA, Arviat	Letter to: informing of upcoming community consultation
March 3, 2010		Arviat HTO Manager & Director	Letter to: informing of upcoming community consultation
March 3, 2010		Arviat Mayor & Council	Letter to: informing of upcoming community consultation
March 3, 2010		Arviat KIA Director & CLARC	Letter to: informing of upcoming community consultation
March 3, 2010	19:00	Minnie Niego, KIA CLO Baker Lake	e-mail to, from DL re: interest/availability for KIA CLARC and HTO meeting
March 4, 2010	08:54	Minnie Niego, KIA CLO Baker Lake	e-mail from, to DL re: will determine interest / availability for meeting
March 17, 2020	15:14	Minnie Niego, KIA CLO Baker Lake	e-mail to, from DL re: reminder of meeting request for KIA CLARC and HTO on March 24 at 10:00 at Nunamuit Lodge in Baker Lake. Please respond to determine interest/availability.
March 17, 2010	15:43	SAO/CEDO Baker Lake	e-mail to, from DL re: query interest in meeting with Kivalliq Energy and reminder of Public Meeting on March 23 at 19:00

			at Nunamuit Lodge. Hope to see someone from the Hamlet at the meeting.
March 17, 2010	16:30	Brenda Vikki	e-mail from, to DL re: confirming catering arrangements for meeting in Arviat on March 25
March 19, 2010	12:47	Brenda Vikki	e-mail to, from DL re: confirming catering arrangements for meeting in Arviat on March 25
March 20, 2010	12:36	Shawn Trepanier, SAO Whale Cove	e-mail to, from DL re: reminder of meeting in Whale Cove on March 24. Please let DL know of any concerns or conflicts.
March 20, 2010	12:28	Hugh Ikoie, Baker Lake	e-mail to, from DL re: reminder of translation service for March 23 in Baker Lake
March 20, 2010	12:26	Hugh Ikoie, Baker Lake	e-mail from, to DL re: confirmed translation services for March 23 meeting in Baker Lake.
March 22, 2010	12:19	Minnie Niego, KIA CLO Baker Lake	e-mail from, to DL re: meeting in Baker Lake on March 24.
March 22, 2010	19:00	David & Anne Ningeongan, Brock Junkin	Public meeting to discuss project and obtain feedback.
March 23, 2010	10:00	Paul Waye SAO Rankin Inlet	Casual meeting with DL to determine why low meeting turnout. No meeting conflicts, just lack of concerns about project.
March 23, 2010	11:54	Minnie Niego (KIA CLO Baker Lake)	e-mail to, from DL re: thanks for organizing meeting with KIA CLARC and HTO in Baker Lake. Confirmed meeting 10:00 am at Nunamuit Lodge on March 24.
March 23, 2010	13:24	Sean Trepanier, SAO Whale Cove, CLO Whale Cove, CEDO Whale Cove	e-mail to: reminder of meeting
March 23, 2010	16:00	Dennis (SAO BL Hamlet)	Telephone call to, from DL remind public meeting
March 23, 2010	19:00	Edwin Evo (KIA Director), Mrs. Evo (MLA's office), Boris (Okpik Aviation), Minnie Niego (KIA Community Liaison Officer)	Public meeting to discuss project and obtain feedback.
March 24, 2010	10:00	Edwin Evo (KIA Director), Jacob Ikinilik (elder on CLARC), Lillian (youth on CLARC), Minnie Neigo KIA CLO	Meeting in Baker Lake with Andrew Berry and Denise Lockett to review project and maps to determine any sensitive meetings KIV should avoid. It was suggested that people from Arviat may have more knowledge of this area.
March 24, 2010	11:30	Joan Scottie, HTO Office Manager	Phone call to, from DL query why no attendance/participation in public meeting the evening before, and meeting at 10:00. Joan thought the meeting was for Thursday not Wednesday. Apologized for the confusion.

March 24, 2010	11:35	Dennis (SAO BL Hamlet)	Telephone call to, from DL to determine interest in meeting in the afternoon. Asked to call back and speak with the Mayor
March 24, 2010	11:40	Shawn Trepanier, SAO Whale Cove	Telephone call to, from DL. Remind to advertise meeting on the radio and determine interest in meeting with KIV. Cautioned that meetings are not always well attended – no complaints about project. Queried if could meet with the Mayor and Council. Special meeting arranged and 1:30 on the agenda for March 25.
March 24, 2010	11:45	David (Mayor of Baker Lake)	Telephone call to, from DL to query interest in meeting representatives of Kivalliq Energy since no participation/attendance at public meeting. Offered to meet at 1:30 at the Hamlet to say hello and provide information.
March 24, 2010	17:13	Sean Trepanier, Elizabeth Voisey (Whale Cove), Arviat CEDO	e-mail to: apologize for not being able to make it into the community.
March 24, 2010	10:30	Judy (KIA CLO) Whale Cove	Telephone call to, from DL re: possibility of meeting with HTO while in town? Judy said she would call the HTO and advise.
March 24, 2010	13:30	Judy (KIA CLO) Whale Cove	Telephone call to, no answer. Left a message.
March 25, 2010	08:00	Public meeting (Arviat Community Hall): John Main, Diane Ilallauk, Thomas Ubluriak (KIA), Eva Gibbons, (name in syllabics), Betty Curley, Jean Koomak, Brian Aggark, Martha Pinguishat, Leonard Irksuk, Elenor Illungiyok, Wiullian Kinniksee, Anne-Marie Shamee, Murray, Tanya Komak, Steffie Jinnisiak, Scotty Shamee, Donald Uluadluak, Cdelina Iootna, Helen, Guy Alikut (looking for work), Leonard Jr. Irksuk, Elizabeth Sinnisiak, Anna Komak, Kimberley Joy Suluk, Laurent Angalik, Adrienne Anutulik, Margaret Kowtak, Mark Kinniksie, James Konek, Leo Otuk Alikut, Linda Nutluusangaik, Johnny Konek, Leo Mukjunik, Brianna Taleriktak, Neason Curley, Leona Curley, Leonie Illialgiayok, Lucien Kabutok, Leroy Okatak,	Andy Berry provided those in attendance with a power point presentation discussing the company history and project plans. Door prizes were given out and refreshments shared with guests. John Main (CEDO) for the community thanked Andy Berry and Denise Lockett for coming and presented a book to each of them (and one to Jeff Ward) as thanks.

		Louisa Sinnisiak, Peter Sr. Sandra Taleniak, Ernie Eetak, Michael Akaralak, John Owingayak, Joe Jr. Ishalook, Ludovic Onerk, Basil Kayauinik, Paul Konek, Samantha Kingusiutnak, Lavinia Alikut, Emma Konek, Zack Owingayak, Celina Shamee, Steffie Sinnisiak, Celina Kinniskie, Ollie Illungiyok, Yvon Aiyarani, Angeline Kinniksie, Tania Komak, Bobby Iootna, Sam Taptakut, Nancy Shamee, Ida Ulimaumi	
March 26, 2010	08:00	Andy	Meeting with Andy Berry over breakfast regarding traditional land use and opportunity for employment
March 26, 2010	09:30	Mayor Bob Leonard (Arviat)	Casual conversation in the airport with Andy Berry and Denise Lockett regarding project.
March 26, 2010	09:05	John Main, CEDO Arviat	E-mail from, to Andy Berry and Denise Lockett – thanks for coming into community. Provided web link to business listing for community of Arviat.
March 30, 2010		Mayor Percy Kabloona & Council, Hamlet of Whale Cove	Letter dated March 29, 2010 apology for not being able to come into community, description of work planned for 2010 and enclosed copy of presentation and map
March 30, 2010		Mayor John Hickes & Council, Hamlet of Rankin Inlet	Letter dated March 29, 2010 concerning community meeting, description of work planned for 2010 and enclosed copy of presentation and map
March 30, 2010		Mayor Bob Leonard & Council, Hamlet of Arviat	Letter dated March 29, 2010 concerning community meeting, description of work planned for 2010 and enclosed copy of presentation and map
March 30, 2010		Edwin Evo KIA Director & Board, Baker Lake	Letter dated March 29, 2010 concerning meetings, description of work planned for 2010 and enclosed copy of presentation and map
March 30, 2010		Manager and Directors, Baker Lake HTO	Letter dated March 29, 2010 concerning meetings, description of work planned for 2010 and enclosed copy of presentation and map
March 30, 2010		Baker Lake MLA	Letter dated March 29, 2010 concerning meetings in Baker Lake, description of work planned for 2010 and enclosed copy

			of presentation and map
March 30, 2010		Dan Shewchuk, MLA Arviat	Letter dated March 29, 2010 concerning meetings in Arviat, description of work planned for 2010 and enclosed copy of presentation and map
March 30, 2010		Tagak Curley, Rankin Inlet North MLA	Letter dated March 29, 2010 concerning meetings in Rankin Inlet, description of work planned for 2010 and enclosed copy of presentation and map
March 30, 2010		Lorne Kusugak, Rankin Inlet South & Whale Cove MLA	Letter dated March 29, 2010 concerning meetings in Rankin Inlet, description of work planned for 2010 and enclosed copy of presentation and map
March 30, 2010		Manager and Directors, Whale Cove HTO	Letter dated March 29, 2010 apology for not being able to meet. Description of work planned for 2010 and enclosed copy of presentation and map
March 30, 2010		Manager and Directors, Rankin Inlet HTO	Letter dated March 29, 2010 concerning meetings in Rankin Inlet, description of work planned for 2010 and enclosed copy of presentation and map
Jan 11, 2011	14:00	Carson Gillis, Keith Morrison, Jorgen Aitoak, NTI	Telecom with Jeff Ward, John Robbins, Jim Patterson re: New management structure at KIV, NTI elections/new Boards, NU uranium policy, exploration agreements, resource management and involvement of RIA's, meeting at Roundup.
Jan 13, 2011		Mayor Kusugak, Hamlet of Rankin Inlet	Letter to, from JW re: election congratulations
Jan 13, 2011		Mayor Aksawnee, Hamlet of Baker Lake	Letter to, from JW: re: election congratulations
Jan 13, 2011		Mayor Leonard, Hamlet of Arviat	Letter to, from JW re: election congratulation
Jan 13, 2011		Cathy Towntongie, NTI President	Letter to, from JW re: election congratulations and invitation to dinner during Roundup in Vancouver
Jan 13, 2011		Joe Eetoolook, NTI Vice President	Letter to, from JW re: election congratulations and invitation to dinner during Roundup in Vancouver
Jan 13, 2011		Jack Anawak, NTI Vice President	Letter to, from JW re: election congratulations and invitation to dinner during Roundup in Vancouver
Jan 25, 2011	18:00	Chris Arko, Coordinator, GIS and IT, Miguel Chenier – Manager GIS and IT, chris Kalluk, Coordinator, GIS and IT, Robert Esser, Senior Advisor Land Administration Planning and	NTI/Kiv Dinner Meeting

		Management, Carson Gillis, Director Lands and Resources, Jorgan Aitaok Manager Mineral Agreements and Promotion, Keith Morrison, Senior Advisor, Minerals Oil and Gas Management, Kelly Walker, Anne Hayes, Sandi Gillis, Rod Snow, Wayne Johnson	
Feb 16, 2011		Jayko Kimmallardjuk, Chester HTO	Letter to, from Andrew Berry re: advise plans to come into community and request opportunity to meet
Feb 16, 2011		Andre Tautu, KIA Director, Chesterfield Inlet	Letter to, from Andrew Berry re: advise plans to come into community and request opportunity to meet
Feb 16, 2011		Harry Aggark, Mayor, Hamlet of Chesterfield Inlet	Letter to, from Andrew Berry re: advise plans to come into community and request opportunity to meet
Feb 16, 2011		Mayor David Aksawnee, Hamlet of Baker Lake	Letter to, from Andrew Berry re: advise plans to come into community and request opportunity to meet
Feb 16, 2011		Moses Aupaluktuq, MLA Baker Lake	Letter to, from Andrew Berry re: advise plans to come into community and request opportunity to meet
Feb 16, 2011		Manager and Directors, Baker Lake HTO	Letter to, from Andrew Berry re: advise plans to come into community and request opportunity to meet
Feb 16, 2011		Edwin Evo & CLO, Baker Lake KIA	Letter to, from Andrew Berry re: advise plans to come into community and request opportunity to meet
Feb 16, 2011		Mayor Bob Leonard & Council, Hamlet of Arviat	Letter to, from Andrew Berry re: advise plans to come into community and request opportunity to meet
Feb 16, 2011		Hon Dan Shewchuk, MLA Arviat	Letter to, from Andrew Berry re: advise plans to come into community and request opportunity to meet
Feb 16, 2011		Manager and Directors, Arviat HTO	Letter to, from Andrew Berry re: advise plans to come into community and request opportunity to meet
Feb 16, 2011		Thomas Ubluriak, KIA Director, and CLO, Hamlet of Arviat	Letter to, from Andrew Berry re: advise plans to come into community and request opportunity to meet
Feb 16, 2011		Manager and Committee, Rankin Inlet HTO	Letter to, from Andrew Berry re: advise plans to come into community and request opportunity to meet
Feb 16, 2011		Mayor Kusugak & Council, Rankin Inlet	Letter to, from Andrew Berry re: advise plans to come into community and request opportunity to meet
Feb 16, 2011		Jack Kabvitok Director and CLO, KIA Rankin Inlet	Letter to, from Andrew Berry re: advise plans to come into community and request opportunity to meet

Feb 16, 2011		Hon Tagak Curley, MLA Rankin Inlet North	Letter to, from Andrew Berry re: advise plans to come into community and request opportunity to meet
Feb 16, 2011		Hon Lorne Kusugak, MLA Rankin Inlet South and Whale Cove	Letter to, from Andrew Berry re: advise plans to come into community and request opportunity to meet
Feb 21, 2011	10:15	Lorne Kusugak, MLA Rankin Inlet South Whale Cove, MLA Tagak Curley, MLA Rankin Inlet North, Jack Kabvitok KIA Rankin Inlet, HTO, SAO Hamlet	e-mail to, from DL re: attached poster announcing public meeting in Rankin Inlet on March 16.
Feb 21, 2011	10:29	KIA director and CLO, Hamlet SAO and EDO,	E-mail to, from DL re: request meeting in hamlet on March 15. Attached poster for distribution if in agreement
Feb 21, 2011	10:52	KIA director and CLO, HTO, Hamlet SAO and EDO	e-mail to, from DL re: attached poster announcing meeting in Baker lake on March 17.
Mar 1, 2011	835	Leona Aglukkaq MP, Arviat DEA, Arviat HTO, Calm Air airport, KIA CLO, Kiluk LTd, Eskimo Point Lumber, Leonard & Associates, Hamlet, Arctic College, etc (every fax number in Arviat)	Fax to, from DL re: request post of meeting poster
March 1, 2011		Every fax number in Rankin Inlet	Fax to, from DL re: request post of meeting poster
March 1, 2011		Every fax number in chesterfield Inlet	Fax to, from DL re: request post of meeting poster
March 1, 2011		Every fax number in Baker Lake	Fax to, from DL re: request post of meeting poster
March 1, 2011	09:30	Valerie Tattuinee, KIA	e-mail to, from DL re: recommendation of translator in Rankin Inlet
March 1, 2011	08:30	Valerie Ipkarnerk, KIA CLO Chesterfield Inlet	e-mail to, from DL re: request e-mail contact details for Andre Tautu for translation
March 1, 2011	08:45	Andre Tautu	e-mail to, from DL re: request interest in translating at public meeting
March 1, 2011	08:00	David	e-mail to, from DL re: request interest in translating at public meeting in Arviat
March 1, 2011	09:39	Hugh Ikoie,	e-mail to, from DL re: request interest in translating at public meeting in Baker Lake
		SAO, Hamlet of Chesterfield Inlet	Letter from, to Andrew Barry re: request reschedule meeting due to community conflicts
		SAO, Hamlet of chesterfield Inlet	Telephone call from, to DL re: letter sent to An Barry re request to reschedule meeting due to community conflicts

		John Main, CEDO, Hamlet of Arviat	e-mail from, to DL re: request reschedule meeting due to MP meeting conflict
March 14, 2011	09:26	Jobie Inooya, EA to Minister Tagak Curley	e-mail from, to DL re: Ms. Lockett, Minister Tagak Curley sends his regrets he will not be able to attend the Kivalliq Energy Corporation due to scheduled meeting in Iqaluit.
March 14, 2011		Rankin Inlet KIA, Hamlet,	e-mail to, from DL re: reminder of public meeting
March 14, 2011		Arviat CEDO, KIA CLO	e-mail to, from DL re: reminder of public meeting
March 14, 2011		Every fax number in Arviat	Fax to: reminder of change in public meeting date
March 14, 2011		Every fax number in Rankin Inlet	Fax to: reminder of public meeting
March 14, 2011		Every fax number in Baker Lake	Fax to: reminder of public meeting
March 15, 2011	19:00	Arviat Public meeting: (add attendees)	
March 16, 2011	19:00	Rankin Inlet public meeting: (add attendees)	
March 17, 2011	19:00	Baker Lake public meeting (add attendees)	
April 5, 2011		Stanley Adjuk, Acting Vice President, KIA	2010 Environmental Excellence Award, presented by the Kivalliq Inuit Association (KIA) was presented to both Jeff Ward, President of Kivalliq Energy Corporation and Allison Rippin Armstrong at the 2011 Nunavut Mining Symposium from April 5 -7, 2011 in Iqaluit, Nunavut.
Aug 29, 2011	10:31	Tagak Curley MLA Rankin Inlet North, Lorne Kusugak MLA Rankin Inlet South/Whale Cove, Mayor Hamlet of Rankin Inlet, SAO/CEDO Hamlet of Rankin Inlet, Director KIA Rankin Inlet, HTO Rankin Inlet, Cathy Towtongie President of NTI	e-mail to, from DL re: Hello: Jeff Ward, the President of Kivalliq Energy Corp would like to invite you to visit the Angilak uranium exploration property on September 14. The plan would be to depart in the morning via charter to the property, have a safety orientation and project overview presentation, tour the project, have lunch and then return home. The trip would be, of course weather dependant. I hope you are able to tour the project and see it for yourselves. Please contact me as soon as possible to reserve

			<p>your seat</p> <p>soon as possible to reserve your seat</p>
Aug 29, 2011	10:35	Moses Aupaluktuq, MLA Baker Lake, Mayor/SAO/CEDO Baker lake, KIA Director and CLO, HTO Baker lake	<p>e-mail to, from DL re: Hello:</p> <p>Jeff Ward, the President of Kivalliq Energy Corp would like to invite you to visit the Angilak uranium exploration property on September 14. The plan would be to depart in the morning via charter to the property, have a safety orientation and project overview presentation, tour the project, have lunch and then return home. The trip would be, of course weather dependant.</p> <p>I hope you are able to tour the project and see it for yourselves. Please contact me as</p>
Aug 29, 2011	10:49	Dan Shewchuk, MLA Arviat, Mayor/SAO/CEDO Arviat, HTO, KIA Director and CLO	<p>Hello:</p> <p>Jeff Ward, the President of Kivalliq Energy Corp would like to invite you to visit the Angilak uranium exploration property on September 15. The plan would be to depart in the morning via charter to the property, have a safety orientation and project overview presentation, tour the project, have lunch and then return home. The trip would be, of course weather dependant.</p> <p>I hope you are able to tour the project and see it for yourselves. Please contact me as soon as possible as space is limited.</p>
Aug 29, 2011	10:58	Rankin Inlet SAO/CEDO MLA's, HTO, Arviat SAO/CEDO, Baker lake SAO/CEDO KIA CLO MLA, Arviat SAO/CEDO HTO KIA CLO	e-mail to, forwarded by DL re: Aug 28 news release re: <i>High Grade Assays Received From Lac Cinquante Resource Area and Western Extension Zone</i>
Aug 29, 2011	11:58	John Main, CEDO Arviat	e-mail from, to DL re; Hi Denise,

			<p>That's awesome, what a great idea. Unfortunately I will be away that week.</p> <p>Would it be possible for the Hamlet's new Training and Employment Coordinator, Samantha Ussak, to attend in my place? Samantha's job is to facilitate recruitment, support mining sector employees and manage related training in our community.</p> <p>Thanks, Matna</p>
Aug 29, 2011	14:49	Ed Murphy, SAO Arviat	<p>e-mail from, to DL re: Hi Denise,</p> <p>Thank you for the invite. I also spoke with Bob Leonard the Mayor of Arviat and both he and I look forward to visiting the site on September 15th. You can reach Bob directly at the above address or I will be happy to coordinate.</p> <p>Thanks,</p> <p>Ed</p>
Aug 29, 2011	18:20	Dan Shewchuk, MLA Arviat	<p>e-mail from, to DL re: Hello Denise I wwill have to check my schedule to see if I am available, I would love to come on this tour. does it leave right from Arviat</p>
Aug 30, 2011	05:30	Lorne Kusugak, MLA Rankin Inlet South	<p>e-mail from, to DL re: Minister Kusugak ask me to pass on that he will be available. He is currently in Rankin Inlet and will be there until 3rd week September</p> <p>Regards</p>
Sept 6, 2011	08:30	Veronica T, KIA	<p>Phone call to, from DL re: confirmation of CLARC members visiting camp.</p>

Sept 6, 2011	09:08	Veronica T, KIA	<p>e-mail to David Ningeognan from Veronica (copy to DL) re: Hi David,</p> <p>Denise would like to know if the RI clarc members would like to go to the Kivalliq Energy camp outside of Baker Lake. So far I have your father in law and my father going. Jack and Paul won't be able to go as they will be a part of the rangers that week. Please let myself or Jeff Tulugak know if you can or cannot go. Kivalliq Energy will be chartering Kivalliq Air on Tuesday, September 13th leaving about 9:00 am and would go for the day</p>
Sept 6, 2011	09:24	Baker Lake SAO/EDO, KIA Rep, HTO, MLA	<p>e-mail to, from DL re: Hello:</p> <p>I haven't heard back from anyone in Baker Lake. Can you please confirm with me, by end of day tomorrow whether or not you are able to visit Kivalliq Energy's exploration camp. Space on the place is limited and I need to make arrangements.</p> <p>Kind regards</p> <p>Denise</p>
Sept 7, 2011	09:27	Lucy for MLA Moses Aupaluktuq	<p>E-mail from, to DL re: Good morning Denise:</p> <p>We apologize for not responding sooner. Family member's leaving from visit and other businesses. Moses Aupaluktuq, MLA, will be able to visit Kivalliq Energy's exploration camp as planned on September 14th. Please do make necessary arrangements. Thank you. Again our apologizes.</p>
Sept 7, 2011	10:50	Lucy for MLA Moses Aupaluktuq	<p>E-mail to, from DL re: Thanks so much for getting back to me.</p> <p>D</p>

Sept 7, 2011	16:00	John Main, CEDO Arviat	<p>e-mail from, to DL re: Hi Denise,</p> <p>We now have Samantha set up in her office – you can contact her at: arviatjobs@gmail.com ph: 867 857 2920</p> <p>Matna, thanks</p>
Sept 8, 2011	08:34	Phil Bordeau, EA for Minister Kusugak	<p>e-mail to, from DL re: Please ask him to show up at the airstrip at 9:30 for immediate departure and dress for the weather.</p> <p>Kind regards</p> <p>Denise</p>
Sept 8, 2011	08:31	Arviat MLA Dan Shewchuk,	<p>e-mail to, from DL re: Hi Dan: please show up at the airstrip at 9:30 for an immediate departure and I will meet you there.</p>
Sept 8, 2011	08:30	Nathan Annanaut, Baker Lake EDO	<p>e-mail to, from DL re: Please show up at the airstrip at 9:30 for immediate departure and dress according to the weather.</p> <p>Kind regards</p>
Sept 8, 2011	08:29	Baker lake MLA Moses Aupaluktuq	<p>E-mail to assistant, from DL re: Please let the MLA know to show up at the airstrip at 9:30 and dress according to the weather.</p> <p>Kind regards</p> <p>Denise</p>
Sept 8, 2011	08:28	Arviat Mayor, SAO and EDO	<p>e-mail to, from DL re: Please show up at the airstrip at 9:30.</p>

			Pass this along to Mayor Leonard. Denise
Sept 8, 2011	08:26	Joan Scotti, Baker Lake HTO	e-mail to, from DL re: Thank you – please tell them to be at the airstrip at 9:30. Dress according to weather and I will meet them there. Denise
Sept 12, 2011	09:42	Valerie Pudnak, CLO Baker Lake	e-mail from, to DL re: Hello Denise, Valerie Pudnak CLO Baker Lake, sorry I never replied to the email below. I'm wondering if there is a seat available for me, as I was busy with our KIA board meeting last week. And I thought it was for our CLARC members only. I apologize for this inconvenience. Thank you, Valerie 2.
Sept 12, 2011	12:08	Valerie Pudnak, CLO Baker Lake	e-mail to, from DL re: Hi Valerie: how about you show up Wednesday at 9:30 at the airport and if we have room on the plane great, if not..... Please make sure you dress for the weather okay?
Sept 12, 2011	13:09	Valerie Tattuinee, KIA	e-mail from, to DL re: Hi Denise, George Hakungak from NTI Cambridge Bay would like to go on that tour. Please confirm that he has room. Thank you!
Sept 12, 2011	13:30	Valerie Tattuinee, KIA	e-mail to, from DL re: Hi Veronica: that should be fine.

Sept 12, 2011	15:39	Lorne Kusugak, MLA Rankin Inlet South	e-mail from, to DL re: Fyi. Unforertunately I will not make the trip rtomorrow Regards. Lorne
Sept 12, 2011	15:09	Valerie Pudnak. KIA CLO Baker lake	e-mail from, to DL re: Ok thanks Denise.
Sept 12, 2011	17:52	Phil B, Minister Kusugak's Executive Assistant	e-mail from, to DL re: Minister Kusugak had sent regrets but they never came through - he notified me tonight that he will NOT be able to make it
Sept 13, 2011	05:26	Phil B., Minister Kusugak's Executive Assistant	e-mail to, from DL re: Hi Phil: i did receive the message from Minister Kusugak and yourself. Thanks so much for letting us know. Perhaps another time. Kind regards
Sept 13, 2011	05:27	Phil B, Minister Kusugak's Executive Assistant	e-mail from, to DL re: Great - you have our contacts.... Phil 975-5003
Sept 13, 2011		George Hakungak NTI Environment, David Ningeognan, Celestino Makpah, Jerome Tattuinee KIA Rankin Inlet CLARC	Tour of Angilak Property
Setp 14, 2011		Baker Lake HTO members: James Kalluk, Eugene Niviatsiak, Thomas Elytook, Silas Kenalogak, Hamlet EDO = Nathan Annanaut, Joedee Joedee, KIA CLO Valerie Pudnak	Tour of Angilak Property
Sept 15, 2011		Arviat HTO members Alex Ishalook and Louis Angalik, MLA Dan Shewchuk, Mayor Bob Leonard, SAO Ed Murphy, Samantha Usaak (Hamlet Training and Employment Coordinator)	Tour of Angilak Property
Sept 20, 2011	13:19	Veronica Tattuinee, KIA	e-mail from, to DL re: Hi Denise, I just wanted to thank you for taking the clarc members to see

			<p>the Kivalliq Energy camp. My father really enjoyed the trip!</p> <p>Veronica Tattuinee Lands Administrator Kivalliq Inuit Association</p>
Sept 20, 2011		Veronica Tattuinee, KIA	<p>Email to, from DL re: You are so welcome. I will pass your note along to Kivalliq Energy.</p> <p>Denise</p>
Sept 21, 2011	14:34	Eva Alikut, Arviat CLO	<p>e-mail from, to DL re: Hi Denise,</p> <p>My computer and email have been down all summer, problem with the computer first then modem. I would of loved to participate in the tour of the exploration camp but I just saw this email 2 weeks later. Apologies for the late reply.</p> <p>Eva</p>
Dec 16, 2011	10:40	David Ningeognan, President KIA	<p>e-mail to, from JW re: Hello David, Congratulations on the election results and your new role as President of the KIA, and to Raymond Ningeocheak as Vice President.</p> <p>I have always had great respect for you and Ann as business leaders, and your role in the community. Your appointment will only improve on the excellent and cooperative relationship Kivalliq Energy already has with the KIA. Andrew Berry and I look forward to getting together with you in the New Year, either in Rankin Inlet or at upcoming conferences.</p> <p>All the best to you, Ann and your family in the new year. Regards,</p>

			Jeff Ward President
January 24, 2012		David Ningeognan (President KIA), Luis Manzo, Jeff Tulugak, Simeon Mikkungwak, Bert Dean (NTI Senior Policy Advisor)	Meeting in KIV board room. (Jeff Ward, Bill Cronk, Andy Berry, Denise Lockett) Presentation on project. Discussion regarding caribou issue, NTI attendance/participation in consultations, company use of partnered companies, caribou protection measures. Query interest in KIV presenting to KIA AGM.
January 25, 2012	18:30	Chris Arko, Miguel Chenier, Chris Kallick, Dee Kallick (wife), Robert Esser, Jorgan Aitaok, Anne (cousin), Keith Morrison, George Hakongak, James Eetoolook	Kiv/NTI Dinner Meeting in conjunction with Roundup at Brix Restaurant in Vancouver
March 4, 2012		Luis Manzo, Director of Lands, KIA Raymond Ningeocheak, Vice President, KIA	2012 Environmental Excellence Award, by the Kivalliq Inuit Association (KIA) was presented to both John Robins, Chairman and Jim Paterson, CEO of Kivalliq Energy Corporation at the 2012 Prospectors and Developers of Canada Association (PDAC) Conference in Toronto, Canada.
March 18-24, 2012			Rankin Inlet – Bill Cronk attended the Kivalliq Chamber of Commerce sessions
April 3, 2012	14:15	Dan Shewchuk, MLA Arviat	e-mail to, from DL: letter from Jeff Ward advising of upcoming consultation trip
April 3, 2012	14:18	Lorne Kusugak, MLA Rankin Inlet South, Whale Cove	e-mail to, from DL re: letter from Jeff Ward advising of upcoming consultation trip
April 3, 2012	14:20	Tagak Curley, MLA Rankin Inlet	e-mail to, from DL re: letter from Jeff Ward advising of upcoming consultation trip
April 3, 2012	14:22	Moses Aupaluktuq, MLA Baker Lake	e-mail to, from DL re; letter from Jeff Ward advising of upcoming consultation trip
April 3, 2012	14:25	Mayor, Council, Staff, Hamlet of Rankin Inlet	e-mail to, from DL re: letter from Jeff Ward advising of upcoming consultation trip
April 3, 2012	14:27	Mayor, Council, Staff, Hamlet of Arviat	e-mail to, from DL re: letter from Jeff Ward advising of upcoming consultation trip
April 3, 2012	14:30	Mayor, Council, Staff, Hamlet of Baker lake	e-mail to, from DL re: letter from Jeff Ward advising of upcoming consultation trip
April 3, 2012	14:35	Manager, Chair and Directors, Arviat HTO	e-mail to, from DL re: letter from Jeff Ward advising of

			upcoming consultation trip
April 3, 2012	14:37	Director, CLO, CLARC Baker lake	e-mail to, from DL re: letter from Jeff Ward advising of upcoming consultation trip
April 3, 2012	14:50	Chairperson, Manager, Directors Baker Lake HTO	e-mail to, from DL re: letter from jeff Ward advising of upcoming consultation trip
April 4, 2012	08:50	Rankin Inlet North MLA Tagak Curley	e-mail to, from DL re: letter from Jeff Ward advising of upcoming consultation trip
April 4, 2012	09:55	Rankin Inlet HTO, Chairman, Manager and Directors	e-mail to, from DL re: letter from Jeff Ward advising of upcoming consultation trip
April 4, 2012	10:00	Leah Muckpah, Arviat HTO Manager	e-mail from, to DL re: I tabled this to April 12, 2012 regular meeting. I'll inform you any news after that. If you have any questions, concerns or comments, please contact Arviat HTO. Leah Muckpah Arviat HTO Manager
April 4, 2012	11:56	Arviat KIA CLO, Director and CLARC	e-mail to, from DL re: letter from Jeff Ward advising of upcoming consultation trip
April 11, 2012	10:36	Lorne Kusugak MLA , Tagak Curley MLA, Hamlet, KIA, HTO,	e-mail to, from DL re: See attached poster. I would appreciate your assistance in distributing and communicating this message to the public. Please contact me if you would like a meeting with Kivalliq Energy Corp officials. Kind regards
April 11, 2012	10:39	Hamlet, Moses Aupaluktuq MLA, KIA CLO, HTO	e-mail to, from DL re: See attached poster. I would appreciate your assistance in distributing and communicating this message to the public. Please contact me if you would like a meeting with Kivalliq Energy Corp officials. Kind regards

April 11, 2012	10:41	Dan Shewchuk MLA, Hamlet, KIA CLO, HTO	<p>e-mail to, from DL re: See attached poster. I would appreciate your assistance in distributing and communicating this message to the public. Please contact me if you would like a meeting with Kivalliq Energy Corp officials.</p> <p>Kind regards</p>
April 11, 2012		Canadian North, MLA Tagak Curley, First Air, Health Centre, Ikkayukktauvik Business Services, Ivalu, HTO, Kativik Hardware, Kissarvik Co-op, Kivalliq Expediting and Storage Inc., KIA, Kivalliq News, M&T Enterprises Ltd, MLA Lorne Kusugak, NAC, Northern Store, Red Top Variety Store,	Faxed to, from DL re: Rankin Inlet Community meeting notice
April 11, 2012		Areva office, Agnico Eagle office, MLA Moses Aupaluktuq, BLCS, Calm Air, Iglu Hotel, Northern Store, Co-op, Health Centre, HTO,	Faxed to, from DL re: Baker lake community meeting notice
April 17, 2012			Iqaluit – Andrew Berry Technical Presentation to the Nunavut Mining Symposium
April 23, 2012	07:31	Rankin Inlet Hamlet SAO, HTO, KIA, MLA's Kusugak and Curley	<p>e-mail to, from DL re: Hi everyone</p> <p>Just a reminder that Kivalliq Energy corp is having a public meeting tonight at Inns North 7-9 p.m. Prizes and refreshments.</p>
April 23, 2012	10:40	Arviat Hamlet SAO/CEDO, HTO, KIA CLO	e-mail to, from DL re: Hello: just a reminder of tomorrow evening's public meeting with Kivalliq Energy Corp 7-9 p.m. at the High School Gym. Can you please put this announcement over the radio.
April 23, 2012	10:45	Baker Lake Hamlet SAO/CEDO/EDO, HTO, KIA CLO	<p>e-mail to, from DL re; Hello'</p> <p>Just a quick reminder that a representative of Kivalliq Energy</p>

			<p>Corp will be in Baker Lake for a public meeting on Wednesday April 25 in the meeting room at the Iglu Hotel from 7-9. We look forward to seeing you there.</p> <p>Can someone please put this on the local radio station?</p>
April 23, 2012	7:20	Rankin Inlet: Paul Kanayok, Bert Dean, Jerome Tattuinee, Robert Tookoome (Sakku), Veronica Tattuinee (KIA), Hilda Price (Hamlet SAO), Kono Tattuinee, Jim Leseluk, Robert Connelly GN ED+T), Jeff Tulugak (KIA) Jack Kabvitok (KIA Director for Rankin Inlet) Bernie Dean.	Community meeting:
April 24, 2012	7:20	Arviat: Massie Ullmaum,, Phillip (elder), Sebastien Curley, Albert Sulurayok, Chesley Nibgoarsi, Peter Akatsiak, Norman Alikut, Methuselah Aniksak, Frank E, Emilia Okiatsiak, Jerry Aupak, Vera Aliktiluk, Mary Kritaqliluk, Ubluriak (HTO), Daniel N. Curley, Agatha Ubluriak, Raymond Aliktiluk, Esther Nutarasungiak, Angie Curley, Mary Ann Okatsiak, Keith Collier (Hamlet), Betty Curley, Cecilia Kinniksie, Doria Akammak, Amy Ulimaumi, Angeline Eetak, Linda Kaviok, Peter Alarek, Anita, Louisa Sulurayok, Linda Anikgak, Johnny Kritaqliluk, Mark Kinniksie, Lillian Arnalak, Basil Kayauinik, Simona Baker, Melanie Teener, Julie Josephie, Sylvia Owpaluk, Shayne, Cecilia Akammak, Pearl Curley, Judy issakiark, Royden Aggark, Nadine Alareak, Karen Aniksak, Mary Sewoee, Nordyka Kritaqliluk, Rachel Aggark, Ayagag Kritaqliluk, Simon Taemer, Mason Akatsiak, Mary Thompson, Joe Ishalook Jr.	Public meeting

		Margaret Pingushat, Johnny Palviatok, Bernice Teenar,	
April 26, 2012	19:00	Baker Lake: name in syllabics, Tina Tunguaq, name in syllabics, Elizabeth Nuilakik, Thomas Elytook, name in syllabics, Thomas Oovayuk, name in syllabics, Trevor Anautalik, Zoe, name in syllabics, Annie Anautalik, Kyle Nester, Bobby Kingaq, name in syllabics, name in syllabics, Simeon (KIA Lands Inspector), Lillian Mannik, Valerie (KIA CLO), John Hicks	Public meeting.
May 24, 2012		MLA Tagak Curley, RI North, MLA Lorne Kusugak, RI South Mayor, Hamlet of Rankin Inlet Director, RI KIA Manager, RI HTO MLA Dan Shewchuk, Arviat Mayor, Hamlet of Arviat Director, Arviat KIA Manager, Arviat HTO MLA Moses A, Baker Lake Mayor, Hamlet of Baker Lake Director, Baker Lake KIA Manager, Baker Lake, HTO	Letter to, from JW re: copy of presentation, confirmation of consultation meetings, offer to call if any comments, questions or concerns.
Aug 9, 2012	08:45	KIA Director, Veronica, CLO Coordinator, President, HTO Manager, hamlet SAO	e-mail to, from DL re: Hello: As was done last year, a tour of Kivalliq Energy's exploration camp has been arranged for September 12. Departure will be likely around 9:00 a.m., and returning to Rankin Inlet in early afternoon. please let me know if members of your organization are interested in participating in the tour.

			Kind regards
Aug 9, 2012	08:54	Arviat KIA CLO, HTO, Hamlet	<p>e-mail to, from DL re: Hello: As was done last year, a tour of Kivalliq Energy's exploration camp has been arranged for September 14. Departure will be likely around 9:00 a.m., and returning to Arviat in early afternoon.</p> <p>please let me know if members of your organization are interested in participating in the tour.</p>
Aug 9, 2012	08:58	Baker Lake KIA CLO + Land Inspector, HTO, Hamlet	<p>e-mail to, from DL re: Hello: As was done last year, a tour of Kivalliq Energy's exploration camp has been arranged for September 13. Departure will be likely around 9:00 a.m., and returning to Baker Lake in early afternoon.</p> <p>please let me know if members of your organization are interested in participating in the tour.</p>
Sept 12, 2012	09:00	Rankin Inlet: Bert Dean NTI, Jack Kabvitok KIA CLARC, Paul Kanayok KIA CLARC, Jerome Tattuinee KIA CLARC, Eugene Kabluitok KIA, Jeff Tulugak (KIA Land Use Inspector), Betsabe Torres KIA, Gabrielle Marleau-Lamontogne KIA	<p>Andy : welcome, introductions and safety orientation. PPT presentation:</p> <p>Jack: could Whale Cove be a part of the consultation.</p> <p>DL: yes, this was tried in the past with no success, but will try again.</p> <p>Paul: he land was all IOL as there were no white people here.</p> <p>AB: yes, Inuit benefit on Crown land as well, part of the agreement/</p> <p>Jack: when did you start up?</p> <p>AB: about Feb/March (talks about activities including Herc strip etc.)</p> <p>Jerome: how thick does the ice have to be for the Herc?</p> <p>AB: 60" or 5'. FA sends out an engineer to test the ice first.</p>

			<p>Paul: if you were ever to become a mine, would you have to build a road?</p> <p>AB: yes, but it would be much like the road to the diamond mines over in the NWT, a seasonal overland road to bring in supplies.</p> <p>Jerome: where would the road come from?</p> <p>AB: premature, but maybe Baker Lake or Arviat/ Lunch. Form groups to go for heli tour, and tour of equipment/truck shop</p> <p>Thank you and ball caps given.</p>
<p>Sept 13, 2012</p>	<p>09:00</p>	<p>Baker Lake HTO: Michael Akilak, Baker Lake CLARC HTO rep Timothy Tunguaq, Baker Lake CLARC KIA Norman Attungala, Baker Lake KIA CLO Valerie Pudnak, Baker Lake CLARC Elder Jacob Ikinilik, Lands Inspector Simeon Mikkungwak KIA Baker Lake, Sarah Anirniq, IIBA Coordinator Baker Lake KIA, HTO, Joedee Joedee, HTO Thomas Anirniq, HTO Eugene Niviatsiaq, HTO Silas Kenalogak</p>	<p>Question: can you demonstrate what a pound of uranium would look like? Know what a pound of land looks like.</p> <p>AB: small drink box</p> <p>SM: can you give a copy of the presentation to the HTO and KIA</p> <p>DL: yes, will send after get back to Vancouver</p> <p>Q: fuel berms. Are you planning on bringing in double walled tanks?</p> <p>AB: yes, but need a place to put them, camp move, more advanced infrastructure. A lot of planning has to take place, and it is all very expensive.</p> <p>Q: if you become a mine will the majority of hires be Inuit</p> <p>AB: we will try to equally distribute the opportunities. There are a lot of experienced mines, and when the time comes, maybe they would like to work for us. There has been a lot of training done in Arviat.</p> <p>Q: if you build a mine, would you need a road?</p> <p>AB: likely but it is premature to think/talk about this now. Would need some kind of road to bring in fuel nd infrastructure.</p> <p>Q: how much more exploration would you need to do before you make the decision to become a mine</p>

			<p>AB: the goal is 130 million lbs.</p> <p>Tours/thanks/ transport back to Baker Lake</p>
Sept 14, 2012	10:30	<p>Arviat: Keith Collier (EDO), Emil, Samantha Ussak, Hamlet employment/training Coordinator,</p> <p>HTO Manager Alex Ishalook, HTO Director Laurent Angalik, (Also Director of BQCMB), HTO Director Paul Kattau, HTO Director Johnny Karetak, HTO Director Thomas Ubluriak, HTO Director Gordy Kidlapik, KIA Director Peter Alareak</p>	<p>Q: Thank you for including Arviat in your consultation, and for hiring workers from Arviat, especially during a time of high unemployment.</p> <p>Peter: \$50/lb seems low</p> <p>AB: discussion of historic prices of commodities. Long term projected price is 65-70\$ / lbs</p> <p>Peter: what is RC drilling</p> <p>AB: collects chips, not core, lightweight, uses no water.</p> <p>Alex: when you drill many holes, does the rock become radioactive when exposed to the air?</p> <p>AB: explained about procedures to limit contact. Holes cemented. Drill core in separate place.</p> <p>Paul: is Noranda still around? Saw an old camp that they abandoned</p> <p>AB: no. they don't exist anymore.</p> <p>Thomas: thank you in particular for inviting us and for hiring people from Arviat. I have heard good things from people in Arviat. You have my gratitude. I know you have received an award of excellence. I see animals around here and they are not afraid of human activity. There are different organizations represented here today: KIA, HTO, Sakku and they are all getting good information. You have our gratitude. You are using the old names. The elders back home appreciate this. (Thomas was born at Yakthed Lake)</p> <p>1:23</p>
Sept 24 2012	11:23	<p>Arviat Hamlet, HTO, KIA, Baker Lake Hamlet, HTO + KIA, Rankin Inlet Hamlet, HTO + KIA</p>	<p>e-mail to from DL re: forward Sept 24 2012 News Release” Kivalliq Completes \$20 million Exploration Program;</p>

			Over 38,000 Metres Drilled and Four New Zones Discovered “
Sept 24, 2012		Arviat Hamlet HTO KIA, Rankin Inlet Hamlet HTO KIA, Baker Lake Hamlet HTO KIA	From Jeff Ward, re: thank you for participating in site visits and attached copy of presentation
November 21, 2012			Rankin Inlet – Andrew Berry Corporate Presentation at Kivalliq Trade Show
Dec 3, 2012	15:05	Rankin Inlet SAO, KIA, HTO, MLA Arviat SAO, CEDO, KIA, HTO, MLA Baker Lake Hamlet, HTO, KIA	e-mail to, from DL re: Final Drill Results Received from the Lac 50 Trend, Including High-Grade Uranium Assays from J4 Zone: 2.42% U₃O₈ over 3.8 m, 2.86% U₃O₈ over 1.5 m and 0.3%
Dec 3, 2012	15:08	Rankin Inlet SAO, KIA, HTO, MLA Arviat SAO, CEDO, KIA, HTO, MLA Baker Lake Hamlet, HTO, KIA	E-mail to, from DL re: link to news release: Assays from Nine Iron Trend Confirm Another New Uranium Discovery; Kivalliq Acquires 87,438 Acres Through Staking at Angilak
Dec 19, 2012		Mayor Stanley AdjukSr. , Whale Cove	Letter from JW re: congratulations on election success
Dec 19, 2012		Mayor Joseph Aupaluktuq, Baker Lake	Letter from JW re: congratulations on election success
Dec 19, 2012		Mayor Robert Janes, Rankin Inlet	Letter from JW re: congratulations on election success
Dec 20, 2012	16:37	Cathy Towtongie, President NTI	e-mail to, from DL re: attached letter of congratulations from Jeff Ward
January 30, 2013	19:00	Keith Morrison, Jorgan Aitaok, Chris Arko, Chris Kalluk, Miguel Chenier, Joe Ohokannoka (NIRB)	Kiv/NTI Dinner Meeting in conjunction with Roundup at Brix Restaurant in Vancouver
March 2, 2013	12:51	MLA/Mayor/SAO/EDO/KIA/HTO Rankin Inlet MLA/Mayor/SAO/EDO/KIA/HTO Arviat MLA/MAYOR/SAO/EDO/KIA/HTO Baker Lake MLA/MAYOR/SAO/EDO/KIA/HTO Whale Cove	e-mail to, from DL re: forwarded Feb 28, 2013 news release
March 5, 2013			PDAC – Luiz Manzo KIA & Andrew Berry re: Reclamation Bond
March 17, 2013	14:00	Rankin Inlet Hamlet, KIA, HTO Arviat Hamlet, KIA, HTO Whale Cove Hamlet, KIA, HTO Baker Lake Hamlet, KIA, HTO	e-mail to re: meetings with representative of Kivalliq Energy week of April 15. Query availability and conflicts.

March 21, 2013		Rankin Inlet Hamlet, KIA, HTO, MLAs Arviat Hamlet, KIA, HTO, MLA Whale Cove Hamlet, KIA, HTO Baker Lake Hamlet, KIA, HTO, MLA	Letter to from Jeff Ward re: upcoming opportunity to meet and provide an update on projec
March 26, 2013	16:14	Rankin Inlet HTO, KIA, NTI	e-mail to, from DL re: Hello: I will be coming into Rankin Inlet with Andrew Berry, Chief Operating Officer with Kivalliq Energy Corp. We are planning have a community meeting during the evening, but I wondered if you wanted to have a meeting during the day. We are available. Please contact me if this is preferable for you.
March 26, 2013	16:38	Baker HTO, KIA	e-mail to, from DL re: Hello: I am working on arrangements for Andrew Berry, Chief Executive Officer to come to Baker Lake on April 18 for a community meeting that evening. As we are expected to arrive around 1:30, would there be any interest in having a HTO/KIA CLARC meeting separate from the evening community meeting? Please let me know if this is something you would like me to arrange. Also, would someone be available to translate for the evening meeting? Thanks and I look forward to hearing from you.
March 26, 2013	16:41	Whale Cove HTO, KIA	e-mail to, from DL re: Hello: I am working on arrangements for Andrew Berry, Chief Executive Officer to come to Whale Cove on April 16 for a community meeting that evening. As we are expected to arrive around noon, would there be any interest in having a HTO/KIA CLARC meeting separate from the evening community meeting? Please let me know if this is something you would like me to arrange.

			<p>Also, would someone be available to translate for the evening meeting?</p> <p>Thanks and I look forward to hearing from you.</p>
April 9, 2013			Iqaluit – Andrew Berry Technical Presentation to the Nunavut Mining Symposium
April 11, 2013			Iqaluit – Luiz Manzo KIA & Andrew Berry re: Reclamation Bond & AANDC CD with Reclaim 6.1 xls sheet.
April 15, 2013	19:00	<p>Rankin Inlet Community Meeting: Co-op Hotel: participants: In attendance: Thomas Tiktak (translator), Johnny A (MLA Lorne Kusugak’s Rankin Inlet constituency assistant), Jeff K (KIA), Darrell Lister (KIA), Veronica T (KIA), Robert Connelly (GN, ED&T), Lawrence (visiting biologist), Jerome T (KIA CLARC), Jack K (KIA Director for Rankin Inlet), Celestino (KIA CLARC), Margaret, Gabe Karlik (KIA), Peter, Sam Ttanuak, Susan Sangushuk, Violet Twyee, Bernie Tutanuak, Robert Tookoome, Kelly Kanayok, Levi Curley, Simon Twyee,</p>	<p>Q: what is your budget for 2013/2014</p> <p>A: we have an approved budget for the first phase of 2013 and that work is currently underway</p> <p>Robert: what are your northern expenditures?</p> <p>A: will show pie graphs in the presentation, coming up</p> <p>Q: Where is “King” aviation? I have never heard of them?</p> <p>A: they are a joint venture with Victor Tootoo and Great Slave Helicopters, based out of Rankin Inlet/</p> <p>Jack: where do the caribou go after calving?</p> <p>A: they do go through the property, we see them come through in the early Fall, early September.</p> <p>Jack: from experience from other hunters, they go south, too much exploration going on now.</p> <p>A: Saw some go down over the top of Yakthed Lake – the lake acts like a natural barrier.</p> <p>Jack: in the old days caribou used to migrate towards Hudsons Bay. Now since there is so much exploration, it is different.</p> <p>A: yes, weather and other conditions can make a difference too</p>

			<p>Jeff: do workers work 2 x 2 rotation</p> <p>A: It varies on what the local employee wants, and what we can accommodate. Some want 3 x 1, some 2 x 2, some 2 x 1. Depends on what they are happy with. Likely why we have been able to attract and retain the same local employees for several years now.</p> <p>Jack: I would like to also have at least one interpreter on the community tours of camp. It is very difficult for unilingual people.</p> <p>Denise: would also like to see some youth come to the camp this year.</p> <p>Jack: last time the tour was very good. A number of exchange students came too.</p> <p>Johnny A: side 7 shows an advanced royalty of \$50,000. When is that paid?</p> <p>A: December 31 annually.</p> <p>Sam: have you hired any of the drillers helpers that are trained in Arviat?</p> <p>Denise try every year but most are hired by AEM</p>
April 17, 2013	19:00	<p>Arviat Community Meeting: In attendance: Winnie Panigoniak, Peter Sr., Ronald Illungiyak, Andrew Pinigoniak, Gena Koomak, Paul Alikaswa, Linda Aupaq, Tania Komak, (name in syllabics), Norman Alikut, Sally Wa'ah, Lorraine Malla, Emilia Okatsiak, Melinda Suwaksiork, Gary Ippiak, Frank Eeyeekkee, Basil Kayauinik, David Ututak Jr. , Methuselah Aniksak, Cecilia Akammak, Winnie Malla, Tamar Mukyunik, Ellena</p>	<p>No questions. People did approach Andy regarding resumes and upcoming employment opportunities.</p>

		Akamnak, Jonathan Akmmak, Angie Curley, Niki Akammuk, Lydia Suwaksiork, Jean Komak, Uriah Koomak, Phillip Otuk, Willie Mukyunik, (name in syllabics), (name in syllabics)	
April	19:00	Baker Lake community meeting: In attendance: Timothy Tunguaq, Micah Qiyuk, Johnny Q, Lillian Netser, Rebecca Walker (teacher), Valerie Pudnak, Thomas Elytook, Carmen Qaqimat, Joseph Scottie, Martha Jorah, Hugh Ikoie, Martha Martee, Norman Attungala	<p>Simeon: have you considered using 50,000 l bulk fuel tanks?</p> <p>Andy; absolutely</p> <p>Simeon: I see you use local businesses from Baker Lake – how many of them have local employees?</p> <p>Andy: we use Peter’s expediting and also they supply the camp cooks, Boris has a turbo otter, Northern and Coop for food</p> <p>Q: how do you award contracts? Small business in land construction, core boxes etc.</p> <p>Andy: We meet people at meetings like these. Ask for advice. Have core boxes for now but will need more next year. Give out my card and ask people to contact me. Send info on your business.</p> <p>Q: have safety equipment and fire extinguishers – cheaper to buy from me than to bring things up from the South</p> <p>A: will get your contact info and start using your services if we can. Most expensive items are planes etc.</p> <p>Joe: lots of drilling companies in the arctic now. What do you do with the hole?</p> <p>A: cement the hole. Collect the drill muds from the casing into the tanks. Recirculate the clean water.</p> <p>Simeon: they are on our list for inspections. Every year</p>

			<p>have their drill plans and check the drill sites to see if the holes have been cemented etc.</p> <p>A: yes, ever year send a report on the work that has been done and what is proposed for the next year.</p> <p>Joe: wildlife report?</p> <p>A: yes, it is quite an extensive report</p> <p>Q: what happens with the mud?</p> <p>A: permitted to sump effluence to low lying area. Flat area. Mud is collected in bulk bags and taken to a single location. Radioactive mud in collected into sealed drums in an isolated secure area.</p> <p>Q: where is the secure area?</p> <p>A: east side of Lac 50 mineralization on an outcrop of rock. Signs posted.</p> <p>Q: if a mine, would it be close to Yalthed Lake. Have there been any drainage studies done?</p> <p>A: yes, started baseline studies in 2010 and environmental monitoring work.</p> <p>Q: we have long winters. Do you properly store your equipment?</p> <p>A: yes, contained. Everything in accordance with licences and permits.</p>
April 22, 2013	07:40	Keith Collier, Arviat CEDO	<p>e-mail from, to DL and AB: Hi Andrew and Denise, Paul Alikaswa just dropped by my office and said he would like to be considered for the camp visit in September.</p> <p>Thanks,</p> <p>-Keith</p>

April 22, 2013	08:07	Keith Collier,Arviat CEDO	Email to, from AB re: Thanks Keith, Sorry I missed you last week on our trip through Arviat. I had a problem with communications that required I was around the phone and computer at the hotel. Our community meeting later in the evening went well. For certain we will be sure to invite Paul Alikaswa on our camp visit next September. Thanks for passing on his request to us.
April 29, 2013	19:10	Hamlet of Rankin Inlet, KIA Director, HTO, MLA's, Hamlet of Arviat, KIA Director, HTO, MLA, Baker Lake Hamlet, KIA Director, HTO, MLA	e-mail to, from DL re: letter and copy of presentation
May 29-30 2013			Rankin Inlet – Bill Cronk attended the Kiggavik Technical Hearings
July 30, 2013		Mayor, Council, Staff. Hamlet of Arviat	Letter to, from JW re: status of project and no site tours this year
July 30, 2013		Chair, Manager, Directors Arviat HTO	Letter to, from JW re: status of project and no site tours this year
July 30, 2013		KIA Director, CLO, CLARC, Arviat	Letter to, from JW re: status of project and no site tours this year
July 30, 2013		MLA Dan Shewchuk, Arviat	Letter to, from JW re: status of project and no site tours this year
July 30, 2013		Mayor, Council, Staff, Hamlet of Baker Lake	Letter to, from JW re: status of project and no site tours this year
July 30, 2013		Chair, Manager, Directors, Baker Lake HTO	Letter to, from JW re: status of project and no site tours this year
July 30, 2013		KIA Director, CLO, CLARC Baker Lake	Letter to, from JW re: status of project and no site tours this year
July 30, 2013		MLA Baker Lake	Letter to, from JW re: status of project and no site tours this year
July 30, 2013		Mayor, Council, Staff Hamlet of Rankin Inlet	Letter to, from JW re: status of project and no site tours this year

July 30, 2013		Chair, Manager, Directors Rankin Inlet HTA	Letter to, from JW re: status of project and no site tours this year
July 30, 2013		KIA Director, CLO and Clarc. Rankin Inlet	Letter to, from JW re: status of project and no site tours this year
July 30, 2013		MLA Rankin Inlet North, Tagak Curley	Letter to, from JW re: status of project and no site tours this year
July 30, 2013		MLA Rankin Inlet South, Lorne Kusugak	Letter to, from JW re: status of project and no site tours this year
July 30, 2013		Mayor, Council, Staff Hamlet of Whale Cove	Letter to, from JW re: status of project and no site tours this year
July 30, 2013		KIA Director, CLO, CLARC Hamlet of Whale Cove	Letter to, from JW re: status of project and no site tours this year
July 30, 2013		Chair, Manager, Directors, Whale Cove HTO	Letter to, from JW re: status of project and no site tours this year
Nov 6, 2013		Arviat Mayor, HTO, KIA. Baker Lake Mayor, HTO KIA, Rankin Inlet Mayor, HTO, KIA. Whale Cove Mayor, KIA, HTO	Letter to from JW re: project update
January 29, 2014	19:00	NTI: Keith Morrison, Jorgan Aitaok, Chris Arko, Chris Kalluk, Miguel Chenier, Kate Chenier (Miguel's wife), Bernice Clarke	Kiv/NTI Dinner Meeting in conjunction with Roundup at Brix Restaurant in Vancouver
February 17, 2014	10:01	Hamlet, HTO, KIA CLO, Whale Cove	Email to, from DL re: Hi Paul: I am working with Kivalliq Energy who would like to come in to Whale Cove on April15 for a meeting in the evening. Can you please tell me if the community hall is available? Eva: are you available to translate? Any suggestions regarding refreshments (is there anyone doing this or should I go through the coop?)

			Kind regards
Feb 17,2014	10:04	Hamlet, HTO, KIA CLO Arviat	<p>Email to, from DL re: Hello: I am working with Kivalliq Energy who would like to come into Arviat for a community meeting the evening of April 16. Can you tell me if the community hall is available? Are there any conflicting meetings or events that I should also be aware of?</p> <p>As we arrive just after lunch, can you advise me if you would like a separate meeting or presentation?</p> <p>Thank you and I look forward to hearing from you.</p>
Feb 17, 2014	10:09	Rankin Inlet Hamlet, KIA CLO, HTO	<p>Email to, from DL re: Hello:</p> <p>I am working with Kivalliq Energy on a schedule of community meetings the week of April14. Can you please advise me of your availability and interest to meet with their representatives on April 14? Usually there is a separate meeting with KIA and the CLARC and that could be on April 14 at 3:00 p.m. at their office if that is what you wish to do.</p>

			<p>Once I have made more arrangements (e.g., meeting room for the evening meeting) I will be sending out more information. A separate letter of invitation will be sent soon by Kivalliq Energy.</p> <p>Can you please let me know of your availability/interest to meet, and of any possible meeting or special event conflicts.</p> <p>Kind regards</p>
Feb 17,2014	10:17	Baker Lake Hamlet, KIA CLO, HTO	<p>Email to, from DL re: I am working with Kivalliq Energy on a schedule of community meetings the week of April14. Can you please advise me of your availability and interest to meet with their representatives on April 17? Usually there is a separate meeting with KIA and the CLARC and that could be on April 17 at 3:00 p.m. at their office, or a separate meeting room if that is what you wish to do.</p> <p>Once I have made more arrangements (e.g., meeting room for the evening meeting) I will be sending out more information. A separate letter of invitation will be sent soon by Kivalliq Energy.</p> <p>Can you please let me know of your availability/interest to meet, and of any possible meeting or special event conflicts.</p>
February 24, 2014		Mr. Alexander Sammurtok, MLA Rankin Inlet	Election congratulatory and project update letter.

		South Whale Cove	
February 24, 2014		Baker Lake Mayor, MLA, HTO, KIA	Letter to, from AB re: request for community meeting
February 24,2014		Arviat Mayor, MLAs, HTO, KIA	Letter to, from AB re: request for community meeting
February 24, 2014		Rankin Inlet Mayor, MLAs, HTO, KIA	Letter to, from AB re: request for community meeting
February 24, 2014		Whale Cove Mayor, MLA, HTO,KIA	Letter to, from AB re: request for community meeting
February 26, 2014	10:21	Whale Cove Hamlet, HTO, KIA CLO	Email to, from DL re: Hi, I haven't heard back from anyone and would like to start making arrangements for the meetings. Thanks and I look forward to hearing from you. Denise
February 26, 2014	10:22	Arviat Hamlet, HTO, KIA CLO	Email to, from DL re: Hi, I haven't heard back from anyone and would like to start making meeting arrangements soon. Can you please confirm with me availability etc. Kind regards
February 26, 2014	10:22	Rankin Inlet Hamlet, HTO, KIA CLO	Email to, from DL re: Hi, I haven't heard back from anyone and would appreciate hearing back regarding availability etc. Kind regards
February 26, 2014	10:24	Baker Lake Hamlet, HTO, KIA CLO	Email to, from DL re: Hello: I haven't heard back from anyone regarding confirmation of availability etc. Can you please indicate interest/availability when you get a moment? Kind regards
February 26, 2014	12:26	Leah Mukpuh, KWB	Email from, to DL re: Denise; Joan Scottie is on leave for the next few weeks, Jocelyn Perkison is a

			<p>casual manager for the time-being.</p> <p>The Baker Lake HTO board of directors are proposing to hold a regular meeting on March 11, 2014.</p> <p>Secondly; I'll have Jocelyn confirm available on the 17th of April for you.</p> <p>Leah M. Muckpah kwb@niws.ca Acting liaison for KWB</p>
February 26, 2014	13:11	Leah Mukpuh	<p>e-mail to, from DL re: Thanks Leah!</p> <p>D</p>
February 27, 2014	07:18	Keith Collier, Arviat CEDO	<p>Email from, to DL re: Hi Denise,</p> <p>My apologies, it's been a busy month.</p> <p>The community hall is free the evening of Wednesday, April 16, and I've booked Kivalliq Energy for the evening. You can contact the Hamlet to arrange payment.</p> <p>Be aware that the Hudson Bay Roundtable is taking place in Churchill, MB on April 15-17, so the Mayor and SAO will not be in town that day.</p> <p>Let me know if you need anything else! Thanks! -Keith</p>
February 27, 2014	07:26	Keith Collier, Arviat CEDO	<p>Email to, from DL re: Thanks Keith – much appreciated. Sorry we won't see you guys on this visit, but quite likely there will be site tours in the early fall. Please ask the Hamlet to send me an invoice</p>

			<p>for payment for the Hall rental.</p> <p>Kind regards</p>
March 3, 2014	09:34	Jeff T, KIA Rankin Inlet	<p>Email from, to DL re: Good Morning Denise</p> <p>I am back at the office now, the April 17 meeting is for the Rankin Inlet CLARC's and would it be ok to invite the HTO also?</p> <p>Thanks Denise</p>
March 3, 2014	11:30to 2:30 p.m.	Kivalliq: Jeff Ward, Andrew Berry. NTI: Keith Morrison (senior advisor minerals oil gas division) Chris Arko (GIS Coordinator), Chris Kalluk (GIS coordinator), Miguel Chenier (Manager GIS/Technican Info) Government of Nunavut: Minister Kuksaak (Minister of Economic Development and Transportation)	NTI luncheon at PDAC
March 3, 2014	10:05	Jeff T., KIA Rankin Inlet	Email to, from DL re: The Rankin Inlet meeting could be April 14 3:00p.m. your office with the CLARC and the HTO. Haven't heard back from Baker Lake if they want a separate meeting. Has Simeon been replaced yet?
March 3, 2014	11:11	Whale Cove Hamlet	<p>e-mail from, to DL re: Denise:</p> <p>Will do you are booked for the community hall for April 15th 2014. As for translators I have 3 or 4 available not a problem. Regards Paul Kaludjak sao HWC</p>
March 3, 2014	11:40	Whale Cove Hamlet	<p>e-mail to, from DL re: Great to hear from you Paul! Thanks again and I look forward to seeing everyone again. \</p> <p>Eva – are you available to translate or can you recommend someone else?</p>

			Denise
March 3, 2014	11:40	Whale Cove Hamlet	e-mail from, to DL re: Welcome, Eva might not be getting your cc,s. Paul
March 3, 2014	11:41	Whale Cove Hamlet	e-mail to, from DL re: Paul –do I have the wrong address for her? D
March 3,2014	11:10	Rankin Inlet Hamlet CEDO	Email from,to DL re: Hi denise, we can set up a meeting once I get back from PDAC next week. Jeoffrey.
March 3, 2014		Jeff T., KIA Rankin Inlet	Email from, to DL re: Simeon’s old position hasn’t been filled yet so Valerie and I are taking care of the CLARC’s for Baker Lake.
March 3, 2014	11:47	Valerie P, KIA CLO Baker Lake	Email from, to DL re: Hi, our director Peter Tapatai is out of town right now. I will try get ahold of him when he returns to Baker Lake.
March 3, 2014	12:13	Valerie P., KIA CLO Baker Lake	Email to, from DL re: Okay Valerie, good to hear from you and hope all is well. D
April 13, 2014	16:00	KIA: Veronica Connelly, Jean Kusugak (interpreter), Celestino, Makpah, Jerome Tattuinee, Jack K (KIA Director Rankin Inlet)	Presentation to Rankin Inlet CLARC
April 13, 2014	19:00	Tommy (NPC interpreter) Makpah, Jerome Tattuinee, Jack K (KIA Director Rankin Inlet) , Robert Connelly, Brian Aglukkaq (NPC	Jerome: opening prayer. Andrew: presentation No questions. Jack: very clean camp. Have seen this when we have

			<p>visited your camp.</p> <p>Jerome: when we visited your camp there were caribou grazing. They didn't mind at all. There was no alterness of the caribou. This is different from other camps we have seen where the caribou are nervous. Care is taken at this camp.</p> <p>Robert: cleanest camp I have seen.</p> <p>Jack: even though I have gone on radio twice and have invited people to your meeting, they haven't come and I feel bad. If people don't come to hear what you say, this can cause problems in the future when they say they don't know anything about your project. They have been given an opportunity to hear you.</p> <p>Makpah: Thank you for the thorough presentation. The wildlife for instance, caribou have a traditional area/ground. Water transmits sound. So much traffic to Meliadine Project has affected the beluga. So much marine traffic, seals have abandoned their traditional areas.</p> <p>Andy: all the more reason for a road up from Churchill.</p> <p>Robert: meeting tomorrow in Churchill with Government of Nunavut and people.</p>
April 15, 2014	18:00	Whale Cove: (name in Syllabics), Lisa Jones (HTO Manager), Mary Nangmalik, Jennifer Sheetoga, Robert Enaupik, Frankie Tartuk, Solomon Voisey (HTO), Martha Arualak, Gerard Maktar, (name in	Solomon Voisey: opening prayer

		<p>Syllabics) Peter Igviksaq, Solomon Okalik, Lewis Voisey, Maryanne E, Jenny, Eva Voisey, John Angoo, Eva Sheetoga, Augustine, Tommy, Sue Aliyak, MannuN Nattar</p>	<p>Andy: presentation</p> <p>Q: Caribou are no longer in areas because of planes and helicopters. There are hardly any caribou because of planes and mines.</p> <p>A: could be as a result of weather changes.</p> <p>Q: There were more caribou before there was a mine at Baker Lake.</p> <p>A: I haven't seen any impact on caribou as a result of work that Kivalliq Energy is doing. Elders in Rankin Inlet said that when they visited our camp and saw caribou there – that the caribou were unafraid.</p> <p>Q: will your mine be open pit or underground?</p> <p>A: a mine is a long ways into the future, but could likely be a couple of small open pits, and some underground.</p> <p>Q: how loud are the drills?</p> <p>A: about as loud as a snowmobile. If we see caribou within a kilometer, all operations including flying and drilling stops until they move out of the area.</p> <p>Q: are you only hiring from Rankin Inlet and Arviat?</p> <p>A: We have hired people who have taken Arctic College's mines training program and have come back year after year. We have about 10 local hires at any one time. Need to build a mine and build jobs. At this stage, it is more like a small scientific research project than a mine. We would like to bring community members to the camp to see what it is like</p>
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for themselves.

Q: is there any commercial fishing in Northern SK at Athabasca Lake?

A: years ago when I was in that area, I saw lots of people fishing. Don't know about a commercial fishery.

Q: uranium mining has polluted the lake and there is no longer a commercial fishery.

Q: when will you start work?

A: don't know for sure. Have to raise money for the work to start. Hard to raise money. Would like to start in July if I can get the money. Hope to work July/Aug and maybe into September. Usually we are working from March to September.

Q: do workers go home once in a while?

A: usually local workers work 1 x 1, 2 x 1, 2 x 2. Drillers work longer shifts. Try to be flexible with local workers.

Q: you said you have drilled 589 holes, how deep are they?

A: deepest is 500 m straight down.

Q: when will you start hiring workers? Do they have to have gone to Arctic College, or have been trained?

A: Training helps. Have hired people who have taken the Mines Training Program. They have been loyal and come back year after year. They are calling me now to see if there is work to come back to. If the project becomes a mine, there will be more jobs. We need to raise money first before there is any

			<p>work this year.</p> <p>Q: Is there an all night guard at the camp?</p> <p>A: we have an electrified fence to keep grizzly bears out of the work area.</p> <p>Q: do people work 8 hrs/day?</p> <p>A: they are paid for an 8 hr day. They keep busy.</p> <p>Q: what does Joan Scottie think of your project?</p> <p>A: haven't heard from Joan. She has been invited to the meetings but she hasn't come. Her brothers Joe and Hugh have come to the meetings.</p> <p>(confusion about if this is Kiggavik)</p> <p>Thank you for coming. Prizes.</p>
April 16, 2014	19;20	<p>Arviat: 7:20 p.m. (poor turnout – child tax credit cheques, Montreal hockey playoff game, church)</p> <p>In attendance: Bobby Suluk, Angelina Suluk, Kono Tautinnee (KIA Secretary Treasurer), Judy (KIA CLO), Myles Mamgark, Charlene Suluk, Kayrene Kadlak, Willie M. Eugene, Thomas Aggark</p>	<p>Q: how many years until a mine?</p> <p>A: too early to tell. Have to build a resource first. Environmental assessment, permits in place then the company makes a decision to build a mine or not</p> <p>Q: what kind of plane is that (picture of plane landing on ice)?</p> <p>A: Nolinor's 737</p> <p>Q: do you hire any drillers helpers from the Arviat program?</p> <p>A: have tried to hire Jordie before but had to cut last years program short</p>

			<p>Q: Have you had any encounters with bears?</p> <p>A: No significant encounters. We have a monitor in camp when we are operating. Caribou come through end of June and July.</p> <p>Q: what company is doing your drilling?</p> <p>A: Major Midwest out of MB but they are an international company</p> <p>Q: Any work this year?</p> <p>A: not sure. Would like to have a program and drill 10,000 metres if we can raise any money. Likely it would be in July/Aug and we would have two drills running.</p> <p>Q: What helicopter company are you using?</p> <p>A: Kivillingmiut who has a JV with Great Slave Helicopters. We shut down operations if caribou are close by. We use Ookpik out of Baker Lake, Food from the Northern/Co-op out of Baker Lake, Returning employees are from ARviat. Try to build a resource from 43 million lbs. Conducting studies to determine if it could be a mine. Have had three good years of drilling then we were negatively impacted by the global markets. Expected to recover in 16 months. Looking forward to the nuclear reactors in Japan coming back on line.</p> <p>Q; Are you exploring in Saskatchewan?</p> <p>A: just staked property there but we haven't been on the property yet. There is more interest from investors n SK than NU. There are roads there and the ground is highly prospective. We hope that interest in the SK property can help fund exploration here.</p> <p>Q: is the land in SK that you are exploring on Provincial or</p>
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			<p>Crown Land?</p> <p>A: Provincial land. SK is a uranium mining jurisdiction with a lot of experience. All uranium exploration and mining is overseen by the Canadian Nuclear Safety Commission. Any production out of Canada, can not be used for war.</p>
<p>April 17, 2014</p>		<p>Baker Lake. 7:20 p.m. (two deaths in the community the day before)</p> <p>In attendance: Samson Jorah Sr.), Jean, Lillian (youth representative on CLARC), Jamie Seeteenak (HTO), Valerie (KIA CLO), Hayley, Martha Jorah, Thomas Anriniq (elder who had been to camp previously) Tim Tunguaq</p>	<p>Q: not enough uranium coming from 4 places (producing countries)?</p> <p>A: there is a lot of need for energy in the world</p> <p>Q: isn't it expensive to explore in NU?</p> <p>A: yes</p> <p>Q: Who gets the royalties?</p> <p>A: we pay an admin fee and a annual fee to NTI. (explains agreement)</p> <p>Q: (elder) likes the strict no harassment policy</p> <p>A: yes and we share the information we collect doing wildlife monitoring with the GN and KIA.</p> <p>Q: does NIRB know about the project?</p> <p>A: yes – explains the permitting system</p> <p>Q: do you go through people's luggage and thermoses?</p> <p>A: yes, sometimes if we suspect someone is using drugs or alcohol. We find out pretty quickly as there is only a small group of up. Zero tolerance.</p> <p>Q: Any exploration this summer?</p>

			<p>A: Poor financial markets right now. We are permitted for exploration and we are trying hard to raise the money necessary.</p> <p>Q: same amount of people this year – or scales back?</p> <p>A: last year the program was scaled back. 1 ½ week program. Hard to say how big the program would be this year.</p> <p>Q: do you have anyone from Baker Lake working there?</p> <p>A: no one at present. We work with Ookpik, Northern Store/Co-op , and camp support through Baker Lake. Work comes into the community because of Kivalliq Energy.</p> <p>Q: when the company decides to sell the property – what happens with the agreement?</p> <p>A: it would move to the new company. NTI and IOL land stay the same.</p> <p>Thank you for coming and draw for prizes.</p>
May 1, 2014		<p>Arviat Hamlet, KIA, HTO, MLA's</p> <p>Baker Lake Hamlet, KIA, HTO MLA</p> <p>Rankin Inlet Hamlet, KIA, HTO, MLAs</p> <p>Whale Cove Hamlet, KIA, HTO MLA's</p>	<p>Letter to, from ABerry re: follow up from community meeting. Attached copy of presentation</p>
June 11, 2014		NIRB, AANDC, KIA, NWB, WSCC	Letter of commencement from Maria Egerton
September 24, 2014		NIRB, AANDC, KIA, NWB, WSCC	Letter of closure from Maria Egerton
January 26, 2015	2 – 3 pm	<p>KIA - Jeff Tulugak, Craig Beardsaw</p> <p>KIV – Maria Egerton, Andrew Berry, Emily McNie</p>	<p>Informal meeting with KIA – discussed summer inspections, program and gave permission to use camp on snow mobile excursion to Ennadai Lake</p>
January 28	6 – 10 pm	<p>NTI - Keith Morrison, Jorgan Aitaok, Miguel Chenier, Chris Arko, Chris Kalluk, Carson Gillis, Ryan Gillis, Kate Chenier</p>	<p>Annual Roundup dinner discussing Angilak property and Areva hearings and FEIS.</p>

		<p>NIRB – Joe Ohokannoak</p> <p>KIA - Jeff Tulugak, Craig Beardsaw</p> <p>KIV - Jim Paterson, Jeff Ward, Andrew Berry, John Robins, Maria Egerton, Emily McNie, Reesa Meltzer</p>	
January 27	2:35 – 2:55 pm	KIA - Jeff Tulugak, Craig Beardsaw in attendance	CSR session – Maria Egerton (De-Risking EA studies by Conducting Early-Stage Baseline Monitoring)