TECHNICAL MEMORANDUM

DATE March 30, 2010 **PROJECT No.** 09-1362-0610/8000

TO Mr. Chris Filion,
Nunavut Research Institute

CC Ms. Nicola Banton

FROM Sarah Gauthier **EMAIL** Sarah_Gauthier@golder.com

2010 NON-TECHNICAL PROJECT PROPOSAL AND 2009 NON-TECHNICAL SUMMARY FOR HYDROLOGICAL INVESTIGATIONS AT THE KIGGAVIK PROJECT, NEAR BAKER LAKE, NU

Introduction

The Kiggavik Project is a uranium surface exploration project located approximately 80 kilometres (km) west of Baker Lake (Figure 1A). The project is made of two large groups of mining leases and mineral claims subdivided into Kiggavik to the north and Sissons to the south. The Kiggavik camp was first established in 1977 and it was occupied for drill programs until 1997. Exploration drilling had not taken place at the project since the end of the 1997 field season but recommenced in 2007 and has continued through 2009.

Non-technical project summary (2010)

The focus of the hydrological assessment is to gather baseline streamflow and lake water level information from drainage areas in the Kiggavik and Sissons area. The collection of stream discharge data and lake level monitoring is to meet the following objectives for the project:

- collect sufficient water data to document the natural range in streamflow from selected locations to satisfy regulatory requirements;
- collect hydrology information that can be used for engineering design purposes; and
- collect baseline hydrology information that could be used in support of an environmental assessment (EA).

The name and contact information for the researcher involved in the hydrological investigations at Kiggavik is as follows:

Brent Topp, B.Sc.
Golder Associates Ltd.
1721 - 8th Street East
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Hydrological monitoring began at the Kiggavik Project in 2007. Three types of hydrological monitoring are again proposed for the Kiggavik Project in 2010, as presented in Table 1. These include instantaneous stream discharge measurements, continuous instream stage measurements and lake water level measurements.

Stream velocity and depth measurements will be made using a standard flow meter and these measurements will be used to calculate discharge. At each monitoring location, water elevation will be surveyed using an engineer's rod and level for relative elevation according to benchmarks that had been established in 2007. Continuous water level recorders will be re-installed on selected streams and will be removed at freeze-up to avoid damage from ice. Lake level monitoring will be carried out by surveying the lake elevation relative to a previously established benchmark in lakes that could potentially be impacted by project development.

The hydrology monitoring field program requires three field visits. The spring trip is to re-establish all discharge monitoring locations and to install continuous stage recorders. A second field trip is proposed for mid-summer (late July) to collect discharge measurements and survey stream and lake water elevations. During the summer program, a current profiler will also be installed near the shore of Judge Sissons Lake (Figure 1B) in order to define lake current in the vicinity of the location of effluent release. The final trip of the season (early September) will be to measure and record all stream cross-sections and survey all water elevations. At this time the continuous recorders would be downloaded and removed for the winter.

AREVA Resources Canada Inc. (AREVA) will provide camp services and transportation via helicopter for personnel involved with the hydrological assessment.

A report detailing the results of the 2010 hydrology program would be prepared for inclusion in the 2010 annual report (completion date for draft would be decided between AREVA and Golder Associates Ltd.).

Summary of Work Completed in 2009

The 2009 field season began on June 15 due to a later than usual spring snowmelt. The spring program continued until July 6, the summer field program was conducted from July 24 to 28, and the fall field program was conducted from August 24 to September 3. Continuous water surface elevation sensors were installed at SF2, SF3, SF4, SF5, SF6, SF7, SF8, SF13, and SF14. Two new sites were established to monitor stream discharge near the outflows of Andrew and Mushroom lakes, and lake elevation on Andrew and Mushroom lakes. A continuous water level sensor was also installed in the outflow channel of Andrew Lake. Stream topographic surveys were conducted as part of each of the field programs in 2009 for stream crossing locations along the proposed north all-weather road route (Figures 1A and 1B). These surveys included collection of stream topographic data and stream flow measurement.

During the spring field program stream discharge and lake elevation monitoring locations were re-established and continuous stage recorders were installed. Water elevations were measured relative to local benchmarks, which in each case were large boulders located in the vicinity of the monitoring location. Stream velocity and depth measurements were made using a standard flow meter and these measurements were used to calculate discharge. During the summer field program, water elevation and stream discharge measurements were taken at the monitoring locations and data from the continuous stage recorders were downloaded. Measurements were again taken at each location during the fall program; continuous stage recorders were again downloaded and were removed for the winter. All stream discharge measurements and lake elevation measurements are presented in Tables 2 and 3, respectively (attached). Preliminary results for the estimations of discharge in the streams that had continuous stage recorders are provided in Table 4 (attached). Note that these results are preliminary only. As more data are collected, better estimations of mean discharge may be provided.

If you have any questions concerning this memo, please contact Sarah Gauthier at (306) 665-7989 or Sarah_Gauthier@golder.com.

Attachments: Tables 1 to 4
Figures 1A and 1B

SG/BT/cjf

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Table 1: Stream Discharge and Lake Elevation Monitoring Locations at the Kiggavik Project, 2009 and 2010

Stream Discharge Monitoring Stations			
Station ID	**Description**	**Crossing Location (UTM NAD 83 Coordinates[a])**	**Continuous Monitoring**
SF1	Outflow of Skinny Lake	Zone 14 W 571655E 7155266N	No
SF2	Outflow of Unnamed Lake Downstream of Cirque Lake	Zone 14 W 563554E 7146242N	Yes
SF3	Northeast Inflow of Pointer Lake	Zone 14 W 565717E 7147088N	Yes
SF4	Outflow of Siksik Lake	Zone 14 W 565790E 7140386N	Yes
SF5	Outflow of Pointer Lake	Zone 14 W 566477E 7140840N	Yes
SF6	Outflow of Shack Lake	Zone 14 W 558223E 7131912N	Yes
SF7	Outflow of Judge Sissons Lake	Zone 14 W 574605E 7134734N	Yes
SF8	Outflow of Siamese Lake	Zone 14 W 580364E 7146775N	Yes
SF10	Tributary to the Northeast Inflow of Pointer Lake	Zone 14 W 565328E 7146771N	No
SF11	Northwest Inflow of Pointer Lake	Zone 14 W 565015E 7144882N	No
SF13	Aniguq River	Zone 14 W 617415E 7123391N	Yes
SF14	Qinguq Creek	Zone 14 W 630101E 7128437N	Yes
SF15	Outflow of Andrew Lake	Zone 14 W 553586E 7134121N	Yes
SF16	Outflow of Mushroom Lake	Zone 14 W 554181E 7136655N	No
Lake Water Surface Elevation Monitoring Stations			
Station ID	**Description**	**Benchmark Location (UTM NAD 83 Coordinates[a])**	**Continuous Monitoring**
LE1	Pointer Lake	Zone 14 W 565652E 7142467N	No
LE2	Unnamed Lake Downstream of Cirque Lake	Zone 14 W 563603E 7146244N	No
LE3	Judge Sissons Lake	Zone 14 W 574537E 7134751N	No
LE5	Skinny Lake	Zone 14 W 571626E 7154893N	No
LE6	Kavisilik Lake	Zone 14 W 571712E 7155299N	No
LE7	Siamese Lake	Zone 14 W 576086E 7151648N	No
LE8	Andrew Lake	Zone 14 W 553222E 7134135N	No
LE9	Mushroom Lake	Zone 14 W 554219E 7136721N	No

Notes: (a) E is easting (in meters), N is northing (in meters)

Table 2: Stream Discharge and Water Surface Elevation Measurements, 2009

Station ID	Date	Water Elevation (m)	Discharge (m^3/s)	Station ID	Date	Water Elevation (m)	Discharge (m^3/s)
SF1	18-Jun-09	98.790	7.03	SF7	17-Jun-09	98.771	20.60
	27-Jul-09	98.216	0.10		25-Jul-09	98.519	8.23
	26-Aug-09	98.411	1.06		25-Aug-09	98.321	3.89
SF2	17-Jun-09	99.006	0.83	SF8	18-Jun-09	99.350	2.21
	20-Jun-09	98.985	0.71		26-Jul-09	99.249	1.03
	27-Jul-09	98.759	0.04		26-Aug-09	99.235	0.81
	24-Aug-09	98.870	0.18	SF10	16-Jun-09	98.897	0.10
SF3	16-Jun-09	99.714	0.17		20-Jun-09	98.874	0.05
	20-Jun-09	99.703	0.16		27-Jul-09	98.808	0.00
	27-Jul-09	99.498	0.00		24-Aug-09	98.860	0.01
	24-Aug-09	99.617	0.09	SF11	17-Jun-09	99.693	0.85
SF4	16-Jun-09	99.574	0.22		20-Jun-09	99.684	0.79
	26-Jul-09	99.258	0.00		27-Jul-09	99.477	0.01
	25-Aug-09	99.293	0.00		25-Aug-09	99.534	0.15
SF5	16-Jun-09	99.074	9.27	SF14	26-Jul-09	33.930	2.00
	25-Jul-09	98.511	0.24	SF15	18-Jun-09	99.705	4.00
	25-Aug-09	98.589	0.75		6-Jul-09	99.290	0.37
SF6	17-Jun-09	99.774	6.84 (0.60)		25-Jul-09	99.132	0.07
	25-Jul-09	99.242	0.08		25-Aug-09	99.165	0.12
	25-Aug-09	99.093	0.13	SF16	18-Jun-09	99.460	0.14
					25-Jul-09	99.216	0.02
					25-Aug-09	99.227	0.02

Table 3: Measured Lake Elevations, 2009

Station ID	Lake	Date	Elevation (m)
LE1	Pointer Lake	17-Jun-09	98.906
		25-Jul-09	98.285
		25-Aug-09	98.316
LE2	Unnamed Lake Downstream of Cirque Lake	17-Jun-09	99.142
		20-Jun-09	99.035
		27-Jul-09	98.774
		24-Aug-09	98.900
LE3	Judge Sissons Lake	17-Jun-09	99.816
		25-Jul-09	99.680
		25-Aug-09	99.578
LE5	Skinny Lake	18-Jun-09	99.601
		27-Jul-09	99.232
		26-Aug-09	99.334
LE6	Kavisilik Lake	03-Aug-07	98.170
		20-Sep-07	98.255
		22-Jul-08	98.229
		31-Aug-08	98.196
		18-Jun-09	98.540
		27-Jul-09	98.187
		26-Aug-09	98.263
LE7	Siamese Lake	18-Jun-09	97.241
		26-Jul-09	97.084
		26-Aug-09	97.043
LE8	Andrew Lake	18-Jun-09	99.460
		6-Jul-09	99.028
		25-Jul-09	98.871
		25-Aug-09	98.882
LE9	Mushroom Lake	18-Jun-09	99.579
		25-Jul-09	99.419
		25-Aug-09	99.410

Table 4: Monthly Mean, Maximum and Minimum Discharge Estimates in 2009 (m^3/s)

Station ID	Discharge (m^3/s)	June	July	Station ID	Discharge (m^3/s)	June	July
SF2	Mean		0.06	SF7	Mean	17.2	12.4
	Maximum		0.25		Maximum	26.1	18.9
	Minimum		0.01		Minimum	0.00	8.09
SF3	Mean		0.01	SF8	Mean	1.76	1.35
	Maximum		0.06		Maximum	2.80	1.99
	Minimum		0.00		Minimum	0.00	0.85
SF4	Mean		0.00	SF13	Mean	83.4	38.0
	Maximum		0.00		Maximum	128	75.3
	Minimum		0.00		Minimum	0.00	20.3
SF5	Mean	4.29	0.77	SF14	Mean		3.43
	Maximum	8.77	1.92		Maximum		7.26
	Minimum	0.00	0.23		Minimum		2.12
SF6	Mean	2.53	0.29	SF15	Mean	1.84	0.21
	Maximum	5.40	0.95		Maximum	3.97	0.65
	Minimum	0.00	0.08		Minimum	0.00	0.04

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ᐅᓪᓗᖓ ᔫᓐᓂᐊᕆ 30, 2010 **ᐱᓕᕆᐊᑉ ᓈᓴᐅᑖ.** 09-1362-0610/8000

ᑐᕌᕝᕙᒃ ᒥᔅᑕ. ᑯᕆᔅ ᐱᓕᐋᓐ,
ᓄᓇᕗᒥ ᖃᐅᔨᓴᕐᑏᑦ ᑎᒥᖓᑦ

ᐊᔾᔨᖓᓂᒃ ᑎᑎᖅᑲᐅᓯᐊᕐᑐᖅ Ms. Nicola Banton

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2010 ᐱᔭᕆᐅᕐᓂᒃ ᐱᓕᕆᒥᐊᑐᓗᐊᓐᖏᑦᑐᓄᑦ ᑐᒃᓯᕋᐅᑦ ᐊᒻᒪᓗ 2009ᒥ ᐱᔭᕆᐅᓗᐊᓐᖏᑦᑐᓂᒃ ᖃᐅᔨᓴᕐᓂᐅᓚᐅᕐᑑᑉ ᐅᓂᒃᑳᖏᑦ ᓇᐃᓈᕐᓯᒪᔪᑦ ᑭᒡᒐᕙᐅᑉ ᐊᕙᑎᐊᓃᒃᑐᑦ ᐃᒪᕐᑯᑎᖏᓐᓂ, ᖃᒪᓂᑦᑐᐊᑉ ᖃᓂᒋᔮᓂ, ᓄᓇᕗᑦ

ᖃᐅᔾᒃᑲᐃᒥᐊᕈᑏᑦ

ᑭᒡᒐᕙᒻᒥ ᖃᐅᔨᓴᕐᕙᒃ ᓄᓇᐅᑉ ᖃᖓᓂᒃ ᓄᖑᔪᐃᑦᑐᒥᒃ ᐅᔭᕋᓐᓂᐊᕐᕙᒃᓴᐅᒻᒪᖔᑦ ᐱᓕᕆᐊᖑᓯᒪᒻᒪᑦ ᐃᒻᒪᖃ 80 ᑭᓚᒦᑕᓂᒃ (km) ᖃᒪᓂᑦᑐᐊᑉ ᐱᓇᓐᓇᖓᓂ (ᓈᓴᐅᑎᓖᑦ 1A). ᐱᓕᕆᕝᕙᐅᓯᒪᔪᖅ ᒪᕿᓕᖓᓪᓗᓂ ᐊᖏᔪᒃᓪᓛᓪᓗᑎᒃ ᐅᔭᕋᓐᓂᐊᕐᕙᒃᓴᒃ ᓄᓇᖓ ᐊᑐᖅᑐᐊᖅᑕᐅᓪᓗᓂ ᐊᒻᒪᓗ ᐅᔭᕋᓐᓂᐊᕐᕙᒃᓴᐅᔪᒪᓂᖓᓄᑦ ᓄᓇᖓ ᓄᓇᑖᖑᓇᓯᐊᕐᓯᒪᒻᒪᑦ ᐅᐊᓐᓇᖓᓄᑦ ᑭᒡᒐᕙᒧᑦ ᐊᒻᒪᓗ ᓯᓲᓐᓱᒧᑦ ᓂᕆᐊᓄᑦ. ᑭᒡᒐᕙᒻᒥ ᑕᒻᒦᕐᕙᒃ ᒪᑭᑕᐅᓚᐅᕐᓯᒪᔪᖅ 1977ᒥ ᐊᒻᒪᓗ ᓇᔪᖅᑕᐅᓚᐅᖅᓯᒪᓪᓗᓂ ᓂᐅᖅᑐᖅᑐᑎᒃ ᑎᑭᑦᑐᒍ 1997ᒧᑦ. ᓂᐅᖅᑐᕐᓗᑎᒃ ᕿᓂᖅᑐᖅᑲᒃᑲᓐᓂᓚᐅᕐᓯᒪᓐᖏᑦᑐᖅ ᑕᐃᒪᓐᖓᑦ ᕿᓂᕐᕙᐅᓂᖓ ᐃᓱᓕᓚᐅᕐᓯᒪᒻᒪᑦ 1997ᒥ ᕿᓂᕐᓂᖏᑦ ᑭᓯᐊᓂ ᐊᑐᓕᕐᑯᔭᐅᒃᑲᓐᓂᓚᐅᕆᓪᓗᓂ 2007ᖑᑎᓪᓗᒍ ᑲᔪᓯᓯᒪᓪᓗᓂᓗ 2009ᒧᑦ ᑎᑭᑦᑐᒍ.

ᐱᔭᕆᐅᓗᐊᓐᖏᑦᑐᓂᒃ ᖃᐅᔨᓴᕈᒪᓂᕐᒧᑦ ᐅᓂᒃᑳᑦ ᓇᐃᓈᕐᓯᒪᔪᑦ (2010ᒥ)

ᖃᐅᔨᓴᓗᐊᕐᓂᐊᕐᑐᑦ ᐃᒪᖓᓂᒃ ᐊᕙᑎᐊᓃᑦᑐᓂᒃ ᑲᑎᖅᓱᐃᓗᑎᒃ ᑰᒡᓚᓂᒃ ᖃᐅᔨᓴᕐᑕᐅᖃᑦᑕᓚᐅᕐᑐᓂᒃ ᑕᕝᕓᓗ ᐃᑎᓂᖏᑦ ᑰᕝᕙᐅᖃᑦᑕᕐᑐᓪᓗ ᑭᒡᒐᕙᖏᑦ ᓯᓲᓐᓴᒥᒃᓗ. ᖃᐅᔨᓴᖃᒃᓴᓂᒃ ᓄᐊᑦᓯᓂᖅ ᑰᓚᕝᕚᓂᒃ ᓇᐅᑦᓯᕐᑐᐃᓗᑕᓗ ᑕᓯᐅᑉ ᐃᑎᓂᖓᓂᒃ ᖃᐅᔨᓴᕐᓂᐊᕿᑎᒍ ᐅᑯᐊ ᒪᓕᒃᑕᐅᖁᔭᐅᓯᒪᔪᑦ ᑐᕌᒃᓴᓂ ᐱᓕᕆᓂᑦᑎᓐᓂ ᒪᓕᑦᓯᐊᕐᑯᓪᓗᒋᑦ:

- ᓄᐊᑦᓯᓗᑕ ᐃᒪᖕᒥᑦ ᓈᒻᒪᓈᕋᓯᐊᕐᓗᒋᑦ ᖃᐅᔨᓴᕆᐊᓕᕗᑦ ᑎᑎᕋᕐᑕᐅᕙᓪᓕᐊᓂᐊᖕᖓᑕ ᐊᔾᔨᓐᓇᓕᓯᒪᑎᓐᓇᒋᑦ ᑰᕈᐃᑦ ᑰᓚᕝᕙᖏᓐᓄᑦ ᑰᑦᑎᒥᓂᖏᑦ ᓂᕈᐊᕐᑕᐅᓚᐅᕐᑐᓂ ᖃᐅᔨᓴᕐᕙᐅᔪᒪᔪᓂ ᒪᓕᑦᓯᐊᓕᕐᑯᓪᓗᑕ ᐱᕐᑯᔭᓕᐊᖑᓯᒪᔪᓂᒃ ᒪᓕᒃᑕᕆᐊᓕᒃᑎᓐᓂᒃ;
- ᖃᐅᔨᓴᖃᒃᓴᓂᓪᓗᑕ ᐃᒪᖓᓂᒃ ᐊᕙᑎᐊᓂᓪᓗ ᖃᐅᔨᓴᕐᓗᑕ ᐊᑐᖅᑕᐅᔪᓐᓇᕐᓯᓂᐊᖕᖓᑕ ᓄᓇᖓ ᐋᖅᑭᑦᓱᖅᑕᐅᕆᐊᖅᑲᓕᕐᐸᑦ ᑎᑎᕋᐅᔭᕐᑏᑦ ᐋᖅᑭᑦᓱᐃᔾᔪᑎᓐᓄᑦ ᓴᓇᔭᐅᓂᕆᓗᔭᕐᑕᖓᓄᑦ; ᐊᒻᒪᓗ
- ᖃᐅᔨᓴᖃᒃᓴᓂᓪᓗᑕ ᖃᐅᔾᔪᕙᐅᖅᑲᑦᑕᓚᐅᕐᑐᓂᒃ ᑰᓛᓂᒃ ᐃᒪᖓᓂᓗ ᐊᑐᖅᑕᐅᔪᓐᓇᕐᓯᓂᐊᖕᖓᑕ ᐃᑲᔪᕐᓯᒍᑕᐅᓗᑎᒃ ᐊᕙᑎᓕᒫᖓ ᖃᐅᔨᓴᕐᑕᐅᔭᕆᐊᖅᑲᓕᕐᐸᑦ ᖃᓄᐃᓕᖓᓂᖓ ᐊᔾᔫᓇᓕᔭᐅᓚᐅᖅᑳᖅᓯᓂ (EA).

ᐊᑎᖓ ᑐᕌᕝᕙᖓᓗ ᖃᐅᔨᓴᕐᑑᑉ ᑖᒃᑯᓇᓂ ᐃᒪᓕᕆᔨᓂ ᑭᒡᒐᕙᒻᒥ ᑐᑭᓯᒋᐊᕐᕙᐅᔨᓐᓇᕐᑐᖅ ᐅᕗᖓ:

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ᐳᕆᓐᑦ ᑖᐸ, B.Sc.
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ᓵᔅᑲᑑᓐ, ᓴᔅᑳᑦᓱᐊᓐ
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ᐃᒪᖓᓂᒃ ᑰᓐᓂᖓᓂᓪᓗ ᓇᐅᑦᓯᕐᑐᕆᐊᓕᓚᐅᕐᓯᒪᔪᑦ ᑭᒃᖓᕙᒻᒥ ᐱᓕᕆᐊᖑᕆᐊᕐᑐᓂ 2007ᖑᑎᓪᓗᒍ. ᐱᖓᓲᓕᖓᔪᓂᒃ ᖃᐅᔨᓴᒃᑲᓐᓂᕈᒪᓕᕐᒥᒪᑕ ᐃᒪᖓᓂᒃ ᑰᓐᓂᖏᓐᓂᓪᓗ ᑭᒃᖓᕙᒻᒥ ᕿᓂᕐᑐᓂ 2010ᖑᓕᕐᐸᑦ, ᓇᓗᓇᐃᕐᑐᖅᓯᒪᔪᑦ ᑎᑎᕋᕐᓯᒪᔪᑦ ᑎᑎᕋᕐᓯᒪᓪᓗᑎᒃ 1. ᖃᐅᔨᓴᕐᓂᐊᕐᑐᑦ ᖃᓄᑎᒋ ᑰᓐᓂᖓ ᓱᒃᑲᑎᒋᒪᖔᑦ, ᑖᒃᓴᖓᓕᒫᖅ ᑰᓐᓂᖓᓂᒃ ᐆᒃᑐᕐᐸᓪᓗᑎᒃ ᑰᐸᓪᓕᐊᔭᖓᓂᒃ ᐊᒻᒪᓗ ᑕᓯᐅᐸ ᐃᑎᓂᖓ ᐸᓂᕐᐸᓪᓕᐊᕙᓐᓂᖓᓗ ᖃᐅᔨᓴᕐᑕᐅᕙᓪᓗᓂ.

ᑰᖓᓖᐸ ᓴᓐᖏᓂᖓ ᐃᑎᓂᖓᓗ ᐆᒃᑐᖅᑕᐅᑲᑕᓪᓗᓂ ᐊᑐᕐᓗᑎᒃ ᐊᑐᖅᑕᐅᖓᔫᒃᑐᒥᒃ ᑰᑦᑐᒧᑦ ᖃᐅᔨᓴᐅᒪᒥᑦ ᐊᑐᖅᑕᐅᓂᐊᕐᑐᑎᓪᓗ ᓈᓴᐃᔾᔪᑕᐅᓗᑎᒃ ᖃᓄᑎᒋ ᐃᒪᕐᖕᒥᑦ ᑰᕝᕙᐅᕙᒪᖔᑦ. ᐃᒥᒃᑯᑦ ᓇᐅᑦᓯᕐᑐᕐᕖᑦ, ᐃᒪᖓᑕ ᐅᓕᓐᓂᖓ ᖃᐅᔨᓴᕐᑕᐅᓂᐊᕐᑐᑦ ᐊᑐᕐᓗᑎᒃ ᖃᐅᔨᓴᕐᑑᐸ ᓂᐅᖅᑑᑎᖓᓂᒃ ᓇᓕᒧᓕᕈᑎᖓᓂᓪᓗ ᐃᑎᓂᖓᓂᒃ ᖃᖓᓄᑦ ᐆᒃᑐᕋᐅᑕᐅᓚᐅᕐᓯᒪᔪᑦ 2007ᒥ ᐊᑐᕐᓗᒋᑦ. ᑖᒃᓴᖓᓕᒫᖅ ᓂᐱᓕᐅᕆᕙᓪᓕᐊᔪᑦ ᐃᑎᓂᖓᓂᒃ ᑰᑦᑎᒋᓂᖓᓂᓪᓗ ᐋᖅᑭᑦᑕᐅᒃᑲᓐᓂᕐᓂᐊᕐᑐᑦ ᓂᕈᐊᕐᑕᐅᔪᓂ ᑰᕈᕐᓂ ᐲᖅᑕᐅᑖᕐᑐᑎᓗ ᖁᐊᕐᓇᓱᒥᐸᑦ ᑐᕙᒧᑦ ᖁᐊᖅᑲᓱᐅᑎᖁᓇᒋᑦ. ᑕᓯᐅᐸ ᐃᑎᓂᖓᓂᒃ ᖃᐅᔨᓴᕐᓂᐊᕐᑐᑦ ᐃᒪᐸᓪᓕᐊᓂᖓᓂᒃ ᐸᓂᕐᐸᓪᓕᐊᓂᖓᓂᓪᓗ ᐊᑐᖅᑕᐅᖅᑲᑦᑕᓚᐅᕐᑐᑦ ᑭᓪᓕᖏᑦ ᒪᓕᓪᓗᒋᑦ ᐱᓕᕆᐊᒥᒃ ᐊᒃᑐᐃᓂᖅᑲᐃᓐᓇᕆᐊᖅᑲᕐᓂᖓᓄᑦ.

ᐃᒪᖓᓂᒃ ᐊᕙᑎᖏᓐᓂᓪᓗ ᑰᖓᓖᑦ ᖃᐅᔨᓴᕐᓂᐊᕐᑐᑦ ᐱᖓᓲᓕᖓᔪᓂ ᖃᐅᔨᓴᕆᐊᕈᑦᑕ. ᐅᐱᕐᖔᒃᑯᑦ ᖃᐅᔨᓴᕆᐊᓖᕐᑐᒍᑦ ᐋᖅᑭᑦᑕᐅᒃᑲᓐᓂᕐᓗᑎᒃ ᖃᐅᔨᓴᕐᕙᐅᓚᐅᕐᑐᑦ ᐃᓂᖏᓐᓂ ᐊᒻᒪ ᑖᒃᓴᖓᓕᒫᖅ ᓂᐱᓕᐅᕆᓂᐊᕐᑐᓂᒃ ᖃᓄᑎᒋ ᑰᑦᑎᒋᓕᕐᒪᖔᑕ ᐋᖅᑭᑦᓯᕙᐅᓗᑎᒃ. ᐊᐃᐸᐹᓂ ᖃᐅᔨᓴᕆᐊᓕᕈᑦᑕ ᐊᐅᔭᖅ ᕿᑎᕋᓕᕐᐸᑦ (ᔪᓚᐃ ᔫᓐᖑᐊᓂ) ᖃᓄᑎᒋ ᑰᑦᑎᒋᓕᕐᒪᖔᑕ ᖃᐅᔨᓴᕐᑕᐅᕆᐊᕐᓗᑎᒃ ᐆᒃᑐᕋᐅᑎᒃᑯᑦ ᐊᒻᒪ ᑰᖓᓖᑦ ᑕᓲᓪᓗ ᐃᑎᓂᖏᑕ ᐸᓂᕐᐸᓪᓕᐊᓂᖏᓪᓗ ᖃᐅᔨᓴᕐᑕᐅᓗᑎᒃ. ᐊᐅᔭᐅᓂᖓᓂ, ᖃᐅᔨᓴᐅᒪᒥᑦ ᐋᖅᑭᑦᓯᔪᖅᑲᕐᓂᐊᕆᓪᓗᓂ ᖃᓂᒌᔭᓂ ᔮᔾ ᓯᓰᓐᔅ ᑕᓯᖓᓂ (ᑎᑎᕋᐅᔭᕐᓯᒪᔪᖅ 1Bᒥ) ᒫᓐᓇ ᑕᓯᖓ ᖃᓄᐃᓕᖓᓕᕐᒪᖔᑦ ᖃᓂᒌᔭᓂ ᑰᕙᓪᓕᐊᕝᕙᖓᑕ. ᑭᖑᓪᓕᕐᐹᒥᒃ ᖃᐅᔨᓵᕐᑐᑦ (ᓯᐸᑎᒻᒪ ᐱᒋᐊᓐᖓᕐᓂᖓᓂ) ᐆᒃᑐᕐᓂᐊᕐᖓᑕ ᑎᑎᕋᕐᓗᒋᓪᓗ ᐃᓘᓐᓇᕐᓯᐊᑎᑦ ᖃᐅᔨᓴᕐᑕᐅᕙᓪᓕᐊᔪᓕᒫᑦ ᑰᖓᓂ ᑭᐳᑦᑕᕐᑐᓂ ᖃᐅᔨᓴᕐᑕᐃᓐᓇᕆᓗᒋᓪᓗ ᐃᒪᖁᑎᓕᒫᕆᑕ ᐃᑎᓂᕆᑦ. ᑕᒪᑐᒪᓂ ᑖᒃᓴᖓᓕᒫᖅ ᖃᐅᔨᓴᐅᑏᑦ ᑎᑎᕋᕐᑕᐅᓗᑎᒃ ᖃᕆᓴᐅᔮᕐᑕᐅᓗᑎᒃ ᐲᖅᑕᐅᓗᑎᓪᓗ ᐅᑭᐅᖑᓂᖓᓂ.

ᐊᕿᕙ ᓄᓇᒥᐅᑕᓕᕆᔨᒃᑯᑦ ᑲᓇᑕᒥ ᑎᒥᖓᑦ (AREVA) ᑕᒻᒫᕐᕝᕚᕐᑎᕐᓯᓂᐊᕐᑐᑦ ᐃᖏᕋᔾᔪᑎᓂᓪᓗ ᖁᑖᒎᓕᒃᑯᑦ ᐃᖅᑲᓇᐃᔭᕐᑎᖏᑦ ᖃᐅᔨᓴᕆᐊᕐᑐᑦ ᐅᓯᔭᐅᑲᑕᓐᓂᐊᕐᒪᑕ.

ᐅᓂᒃᑳᓕᐅᕐᑐᖅᑲᕐᓂᐊᕐᑐᓂ ᓇᓗᓇᐃᕐᑐᐃᓯᒪᔪᓂᒃ 2010ᒥ ᐃᒪᖓᓂᒃ ᖃᐅᔨᓴᕈᑎᒥᓂᕐᖕᓂᑦ ᐅᐸᓗᖓᐃᕐᑕᐅᓗᑎᒃ 2010ᒥ ᐊᕐᕋᒍᑕᒫᕐᓯᐅᑏᑦ ᐅᓂᒃᑳᖏᓐᓄᑦ ᐱᕐᑲᓯᐅᔾᔭᐅᓂᐊᕐᖓᑕ (ᐱᔭᕇᕐᕝᕕᒃᓴᐅᑎᖏᑕ ᐅᓪᓗᖓ ᐋᖅᑭᑦᑐᓂᐊᕐᑐᖅ ᐃᓱᒪᓕᐅᕐᓗᑎᒃ ᐃᕇᕙᒃᑯᑦ ᐊᒻᒪ ᒎᓪᑐ ᑲᑐᔾᔨᖃᑎᒌᑦ ᓕᒥᑎᑦ).

ᓇᐃᓈᕐᓯᒪᔪᑦ ᐱᔭᕇᕐᑕᐅᓚᐅᕐᑐᑦ ᐊᕐᕌᒍᖓᓂ 2009

2009ᒥ ᖃᐅᔨᓴᕐᓂᐅᓚᐅᕐᑐᖅ ᐱᕆᐊᓚᐅᕐᓯᒪᔪᖅ ᔪᓂ 15ᖑᑎᓪᓗᒍ ᐊᐅᓐᓇᓵᓚᐅᕐᓂᖓᓄᑦ ᐅᐱᕐᖓᖓᓂ. ᐅᐱᕐᖔᒃᑯᑦ ᖃᐅᔨᓴᕐᑕᕗᑦ ᑲᔪᓯᓪᓗᓂ ᔪᓚᐃ 6ᒧᑦ, ᐊᐅᔭᐅᓂᖓᓂ ᖃᐅᔨᓴᓚᐅᕐᑐᒍᑦ ᐱᕆᐊᕐᑐᒍ ᔪᓚᐃ 24ᒥᒃ 28ᒧᑦ, ᐊᒻᒪ ᐅᑭᐊᑦᓵᒃᑯᑦ ᖃᐅᔨᓴᓚᐅᕐᑐᒍᑦ ᐅᒍᓯ 24ᒥᒃ ᓯᐸᑎᒻᒪ 3ᒧᑦ. ᑖᒃᓴᖓᓕᒫᖅ ᓂᐱᓕᐅᕆᔪᑦ ᖃᐅᔨᓴᐅᑏᑦ ᐋᖅᑭᑦᑕᐅᓚᐅᕐᑐᑦ ᐅᑯᓇᓂ SF2, SF3, SF4, SF5, SF6, SF7, SF8, SF13, ᐊᒻᒪ SF14. ᒪᕐᕈᒃ ᓄᑖᒃ ᖃᐅᔨᓴᕐᕝᕕᐅᓂᐊᕐᑑᒃ ᐋᖅᑭᑦᑕᐅᕆᓪᓗᑎᒃ ᑰᖓᓐᓂᖏᓐᓂᒃ ᖃᐅᔨᓴᐅᑎᐅᓂᐊᕐᑑᒃ ᑕᓯᖏᓐᓂ ᐊᓐᑐᕈ ᒪᔅᑭᓪᓗ, ᐊᒻᒪ ᑕᓯᖏᑕ ᐃᑎᓂᖏᒃ ᐊᓐᑐᕈ ᒪᔅᑭᓪᓗ. ᑰᖓᓖᑦ ᓄᓇᖓᑕ ᓄᓇᓐᖑᐊᖓ ᖃᐅᔨᓴᕐᑕᐅᓪᓗᓂ ᐃᓚᓕᐅᑎᓂᐊᕐᖓᑦ ᖃᐅᔨᓴᕐᑕᐅᕆᐊᕐᑲᓚᐅᕐᑐᓄᑦ 2009ᒥ ᑰᖓᓖᑦ ᑲᓯᕐᕝᕕᖏᑦ ᐊᑐᕆᐊᓕᐅᕐᕝᕕᐅᔪᒪᔪᓂ ᐅᑭᐅᓕᒫᒃᑯᑦ ᐊᑐᕋᒃᓴᒥᒃ (ᓇᓗᓇᐃᒃᑯᑦ 1A ᐊᒻᒪ 1B). ᑖᒃᑯᓂᖓ ᖃᐅᔨᓴᕐᑎᓪᓗᑕ ᐱᕐᑲᓯᐅᔾᔭᓚᐅᕐᒥᔪᒍᑦ ᑰᖓᓖᑦ ᓄᓇᓐᖑᐊᖓᓂᒃ ᑰᕝᕕᖏᓐᓂᓪᓗ ᖃᓄᑎᒋᓗ ᓱᒃᑲᑎᒋᒪᖔᑦ ᑰᖓᓖᑦ.

ᐅᐱᕐᖔᖑᓂᖅᒐᓂ ᖃᐅᔨᓴᓚᐅᕐᑐᒍᑦ ᑰᑎᒋᓂᖅᒐᓂᒃ ᐊᒻᒪ ᑕᓯᐅᑉ ᐃᑎᓂᖅᒐᓂᒃ ᖃᐅᔨᓴᕐᕕᑦ ᐋᖅᑭᑦᑕᐅᒃᑲᓂᓚᐅᕐᑐᑦ ᐊᒻᒪ ᑖᒃᑯᖑᓚᒦᖅ ᓂᐱᓚᐅᓇᕈᑦᓚᐊᔪᓂᒃ ᑰᓐᓂᖅᒐᓂᒃ ᐋᖅᑭᑦᓯᑦᑐᑕ. ᐃᒪᐅᑉ ᐃᑎᓂᖅᒐ ᐆᒃᑐᖅᑕᐅᑦᑐᑎᒃ ᐊᑐᖅᑐᕆᑦ ᓇᑐᓇᐃᒃᑯᑎᓚᐊᖑᓚᐅᕐᓯᒪᔪᑦ ᖃᐅᔨᒪᔾᔪᑏᑦ ᐃᓂᖅᒐᓂ, ᐊᑐᓂ ᐅᔾᔪᕐᓱᔪᑲᑦᓚᕈᑐᖅᒥᑦ ᐃᓚᓯᕕᐅᑦᑐᑎᒃ ᖃᐅᔨᓴᕐᕕᖕᒥᓐᓂ ᖃᓄᑎᒋ ᐅᓚᓐᓂᕐᑲᕐᒪᖅᒌᑦ. ᑰᑎᒋᓂᖅᒋᑦ ᐃᑎᓂᖅᒋᑦᑐ ᐆᒃᑐᕐᖁᑕᐅᑦᑐᑎᒃ ᒦᑕᓂᒃ ᐆᒃᑐᕐᖁᐅᑎᓚᓐᓂᒃ ᐊᑐᖅᑐᑎᒃ ᑖᒃᑯᐊᑐ ᓈᓴᐅᑎᖅᒋᑦ ᐊᑐᖅᑕᐅᑦᑐᑎᒃ ᖃᓄᑎᒋ ᓱᒃᑲᑎᒋᑦᑐᐊᕐᒪᖅᒌᑦ ᑰᓐᓂᖅᒐ. ᐊᐅᔾᔪᓂᖅᒐᓂ ᖃᐅᔨᓴᕐᑐᑕ, ᐃᒪᐅᑉ ᐃᑎᓂᖅᒐ ᑰᓐᓂᖅᒐᑕᑐ ᓱᒃᑲᓂᖅᒐ ᖃᐅᔨᓴᕐᕕᓐᓂ ᖃᐅᔨᓴᕐᑕᐅᑦᑐᑎᒃ ᐊᒻᒪ ᑖᒃᑯᖑᓚᒦᖅ ᓂᐱᓚᐅᕐᑕᒥᓃᑦ ᖃᓄᓴᐅᔪᒨᕐᑕᐅᑦᑐᑎᒃ. ᐆᒃᑐᖅᑕᐅᑲᑦᑲᓐᓂᓚᐅᕐᑐᑦ ᐃᑎᓂᖅᒋᑦ ᐅᑭᐊᑦᓴᖑᓕᕐᒥᒪᑦ ᖃᐅᔨᓴᓕᕐᒥᒪᑕ; ᑖᒃᑯᖑᓚᒦᖅ ᓂᐱᓚᐅᓇᔾᔪᑏᑦ ᖃᓄᓴᐅᔪᑦ ᓂᐱᓚᐅᕐᑕᒃᑲᓐᓂᕐᑐᑎᒃ ᐂᖅᑕᐅᑦᑐᑎᑦᑐ ᐅᑭᐅᖑᓂᐊᕐᓂᖅᒐᓄᑦ. ᑯᒑᓛᓚᒦᑦ ᐆᒃᑐᕐᑕᐅᑦᑐᑎᒃ ᑕᓯᐅᑦᑐ ᐃᑎᓯᓂᖅᒐ ᓇᑐᓇᐃᕐᑕᐅᑦᑐᓂ ᑎᑎᖅᑲᓯᒪᑦᑐᑎᒃ ᑎᑎᖅᑲᓯᒪᔪᑦ 2ᒥ 3ᒥᑐ, ᑕᐃᒪᒃ ᑭᖑᓕᕇᒃᑐᑎᒃ (ᑕᕝᕙᖑ ᐱᕐᑲᓯᐅᔾᔪᐅᓯᒪᔪᑦ). ᓯᕗᑦᓕᖅᐹᑦ ᖃᐅᔨᓴᕐᑕᐅᓚᐅᕐᑐᑦ ᖃᓄᑎᒋ ᑰᑎᒋᒪᖅᒌᑕ ᑯᓚᓃᑦ ᑖᕗᖑᓚᒦᖅ ᓂᐱᓚᐅᕈᑎᕐᑲᓚᐅᕐᑐᑦ ᑰᐸᑦᓚᐊᓂᖅᒐᓂᒃ ᑎᑎᖅᑲᓯᒪᔪᑦ 4ᒥ (ᑕᕝᕙᖑ ᐱᕐᑲᓯᐅᔾᔪᐅᓯᒪᔪᑦ). ᐅᔾᔨᓇᔪᐅᓂᐊᖅᐸᖅ ᑖᒃᑯᐊ ᓯᕗᑦᓕᖅᐹᑐᐃᓐᓇᐅᒪᑕ ᖃᐅᔨᔪᐅᓯᒪᔪᑦ. ᓄᐊᕐᓯᕈᓪᓕᐊᓂᕐᑎᓐᓂ ᖃᐅᔨᓴᕐᑕᑎᓐᓂᒃ, ᒥᒃᓴᐅᓴᓯᒪᕐᓯᐊᓂᕐᓴᓂᒃ ᖃᓄᑎᒋ ᑰᑎᒋᒪᖅᒌᑕ ᐊᑐᐃᓐᓇᕈᑐᐃᓐᓇᓇᐊᓖᑦ ᐱᕙᓪᓕᐊᓂᕗᑦ ᒪᓕᑦᑐᒍ.

ᐊᐱᖅᑯᑎᒃᓴᖅᓂᕈᓯ ᑖᒃᑯᐊ ᑎᑎᖅᑲᖅᒋᑕ ᒥᑦᓵᓄᑦ, ᖃᐅᔨᒋᐊᕈᓐᓇᕐᐳᑎᑦ ᓯᐊᔭ ᒫᑎᐃᒧᑦ ᐅᕙᖓ (306) 665-7989 ᖃᓄᓴᐅᔾᔪᑦᑑᓐᓃᑦ ᐅᕙᖓ Sarah_Gauthier@golder.com.

ᐱᕐᑲᓯᐅᔾᔪᐅᓯᒪᔪᑦ: ᑎᑎᖅᑲᓯᒪᔪᑦ ᑎᑎᖅᑲᑦ 1ᒥᒃ 4ᒧᑦ
ᓈᓴᕐᓯᒪᔪᑦ ᑎᑎᖅᑲᖅᒋᑦ 1Aᒥ ᐊᒻᒪ 1Bᒥ

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ᑎᑎᕋᕐᓯᒪᔪᑦ 1: ᑰᒐᓛᑦ ᑰᑦᑎᒋᓂᖅᒋᓐᓂᑦ ᑕᐅᓯᑦᑐ ᐃᑎᓂᖅᒐᓂᒃ ᖃᐅᔨᓴᕿᕚᑦ ᑭᒡᒐᕙᒻᒥ ᕿᑭᓂᕐᑐᓂ, 2009ᒥ 2010ᒥᑐ

ᑰᒐᓛᑦ ᑰᑦᑎᒋᓂᖅᒋᓐᓂᒃ ᖃᐅᔨᓴᕿᕚᑦ			
ᖃᐅᔨᓴᕿᕙᐅᑉ ᓈᓴᐅᑕ	ᖃᐅᔨᓴᕐᑕᖅᒋᑦ	ᑭᐅᓯᒪᕚᖅᒋᑦ (UTM NAD 83 ᓄᓇᖑᐊᒃᑯᑦ ᑐᑭᖅᒋᑦ[a])	ᑖᕗᖅᒐᓚᒫᖅ ᖃᐅᔨᓴᕐᑕᑦ
SF1	ᑰᑉᐸᓪᓚᐊᓂᖅᒐ ᓯᑭᓂ ᑕᓯᖅᒐᑕ	Zone 14 W 571655E 7155266N	ᐋᒡᒐ
SF2	ᑰᑉᐸᓪᓚᐊᓂᖅᒐ ᐊᑎᖃᖅᒋᑦᑐᖅ ᑕᓯᖅ ᑰᕝᕕᐅᑦᑐᓂ ᓲᒃ ᑕᓯᖅᒐᓂᒃ	Zone 14 W 563554E 7146242N	ᐄ
SF3	ᐅᐊᓐᓇᖅᒐᑕ ᑲᓇᓐᓇᖅᒐᓂᒃ ᑰᓐᓂᖅᒐ ᐳᐃᓐᑐᕐ ᑕᓯᖅᒐᑕ	Zone 14 W 565717E 7147088N	ᐄ
SF4	ᑰᑉᐸᓪᓚᐊᓂᖅᒐ ᓯᒃᓯᒃ ᑕᓯᖅᒐᑕ	Zone 14 W 565790E 7140386N	ᐄ
SF5	ᑰᑉᐸᓪᓚᐊᓂᖅᒐ ᐳᐃᓐᑐᕐ ᑕᓯᖅᒐᑕ	Zone 14 W 566477E 7140840N	ᐄ
SF6	ᑰᑉᐸᓪᓚᐊᓂᖅᒐ ᓵᒃ ᑕᓯᖅᒐᑕ	Zone 14 W 558223E 7131912N	ᐄ
SF7	ᑰᑉᐸᓪᓚᐊᓂᖅᒐ of ᔭᔾ ᓯᓲᓐᔅ ᑕᓯᖅᒐᑕ	Zone 14 W 574605E 7134734N	ᐄ
SF8	ᑰᑉᐸᓪᓚᐊᓂᖅᒐ ᓴᐃᒦᔅ ᑕᓯᖅᒐᑕ	Zone 14 W 580364E 7146775N	ᐄ
SF10	ᐊᓯᖅᒋᓐᓂᒃ ᑰᑦᑐᑦ ᐅᐊᓐᓇᖅᒐᑕ ᑲᓇᓐᓇᕐᐸᓯᐊᓂ ᐳᐃᓐᑐᕐ ᑕᓯᖅᒐᓄᑦ ᑰᑦᑐᑦ	Zone 14 W 565328E 7146771N	ᐋᒡᒐ
SF11	ᐅᐊᓐᓇᖅᒐᑕ ᐱᓇᓐᓇᕐᐸᓯᐊᓂ ᐳᐃᓐᑐᕐ ᑕᓯᖅᒐᓄᑦ ᑰᑦᑐᑦ	Zone 14 W 565015E 7144882N	ᐋᒡᒐ
SF13	ᐊᓂᒍᖅ ᑰᖅᒐ	Zone 14 W 617415E 7123391N	ᐄ
SF14	ᕿᖑᖅ ᑰᒐᓛᖅᒐ	Zone 14 W 630101E 7128437N	ᐄ
SF15	ᑰᑉᐸᓪᓚᐊᓂᖅᒐ ᐋᓐᑐᕈ ᑕᓯᖅᒐᓂᒃ	Zone 14 W 553586E 7134121N	ᐄ
SF16	ᑰᑉᐸᓪᓚᐊᓂᖅᒐ ᒪᔅᕈᒻ ᑕᓯᖅᒐᓂᒃ	Zone 14 W 554181E 7136655N	ᐋᒡᒐ
ᑕᓰᑦ ᐃᑎᓂᖅᒋᑕ ᐅᓚᓐᓂᖅᒐᓂᒃ ᖃᐅᔨᓴᕿᕚᑦ			
ᖃᐅᔨᓴᕿᕙᐅᑉ ᓈᓴᐅᑕ	ᖃᐅᔨᓴᕐᑕᖅᒋᑦ	ᐆᒃᑑᑎᓛᑦ ᖃᐅᔨᓴᕿᕙᖅᒋᑦ (UTM NAD 83 ᓄᓇᖑᐊᒃᑯᑦ ᑐᑭᖅᒋᑦ[a])	ᑖᕗᖅᒐᓚᒫᖅ ᖃᐅᔨᓴᕐᑕᑦ
LE1	ᐳᐃᓐᑐᕐ ᑕᓯᖅᒐ	Zone 14 W 565652E 7142467N	ᐋᒡᒐ
LE2	ᐊᑎᖃᓐᖅᒋᑦᑐᖅ ᑕᓯᖅᒐ ᑰᕝᕕᐅᔪᖅ ᓲᒃ ᑕᓯᖅᒐᓂᒃ	Zone 14 W 563603E 7146244N	ᐋᒡᒐ
LE3	ᔭᔾᓯᓲᓐ ᑕᓯᖅᒐ	Zone 14 W 574537E 7134751N	ᐋᒡᒐ
LE5	ᓯᑭᓂ ᑕᓯᖅᒐ	Zone 14 W 571626E 7154893N	ᐋᒡᒐ
LE6	ᑲᕙᓯᓚᒃ ᑕᓯᖅᒐ	Zone 14 W 571712E 7155299N	ᐋᒡᒐ
LE7	ᓴᐃᒦᔅ ᑕᓯᖅᒐ	Zone 14 W 576086E 7151648N	ᐋᒡᒐ
LE8	ᐋᓐᑐᕈ ᑕᓯᖅᒐ	Zone 14 W 553222E 7134135N	ᐋᒡᒐ
LE9	ᒪᔅᕈᒻ ᑕᓯᖅᒐ	Zone 14 W 554219E 7136721N	ᐋᒡᒐ

ᖃᐅᔨᒪᔭᐅᒋᐊᓚᒃ: (a) E ᑲᓇᓐᓇᖅᒐᓄᑦ ᑐᕌᕐᑐᖅ ᐅᖅᒐᓯᓐᓂᖅᒐ ᐱᒋᐊᕐᕙᖅᒐᓂᒃ (ᒦᑕᑎᒍᑦ), N ᐅᐊᓐᓇᖅᒐᓄᑦ ᑐᕌᕐᑐᖅ ᐅᖅᒐᓯᓐᓂᖅᒐ ᐱᒋᐊᕐᕙᖅᒐᓂᒃ (ᒦᑕᑎᒍᑦ)

ᑎᑎᕋᕐᓯᒪᔪᑦ 2: ᑰᒐᓛᑦ ᑰᑦᑎᒋᓂᖏᓐᓂᒃ ᐃᒪᐅᓪᓗ ᐃᑎᓂᖓ ᐅᓚᓐᓂᖓᓄᑦ ᐆᒃᑐᖅᑕᐅᓯᒪᓂᖏᑦ, 2009ᒥ

ᖃᐅᔨᓴᕐᕕᐅᑉ ᓈᓯᐅᑖ	ᐅᓪᓗᖓ	ᐃᒪᐅᑉ ᐃᑎᓂᖓ (m)	ᑰᓐᓂᖓᑕ ᓱᒃᑲᓂᖓ (m³/s)	ᖃᐅᔨᓴᕐᕕᐅᑉ ᓈᓯᐅᑖ	ᐅᓪᓗᖓ	ᐃᒪᐅᑉ ᐃᑎᓂᖓ (m)	ᑰᓐᓂᖓᑕ ᓱᒃᑲᓂᖓ (m³/s)
SF1	18-ᔫᓂ-09	98.790	7.03	SF7	17-ᔫᓂ-09	98.771	20.60
	27-ᔪᓚᐃ-09	98.216	0.10		25-ᔪᓚᐃ-09	98.519	8.23
	26-ᐋᒍᓯ-09	98.411	1.06		25-ᐋᒍᓯ-09	98.321	3.89
SF2	17-ᔫᓂ-09	99.006	0.83	SF8	18-ᔫᓂ-09	99.350	2.21
	20-ᔫᓂ-09	98.985	0.71		26-ᔪᓚᐃ-09	99.249	1.03
	27-ᔪᓚᐃ-09	98.759	0.04		26-ᐋᒍᓯ-09	99.235	0.81
	24-ᐋᒍᓯ-09	98.870	0.18	SF10	16-ᔫᓂ-09	98.897	0.10
SF3	16-ᔫᓂ-09	99.714	0.17		20-ᔫᓂ-09	98.874	0.05
	20-ᔫᓂ-09	99.703	0.16		27-ᔪᓚᐃ-09	98.808	0.00
	27-ᔪᓚᐃ-09	99.498	0.00		24-ᐋᒍᓯ-09	98.860	0.01
	24-ᐋᒍᓯ-09	99.617	0.09	SF11	17-ᔫᓂ-09	99.693	0.85
SF4	16-ᔫᓂ-09	99.574	0.22		20-ᔫᓂ-09	99.684	0.79
	26-ᔪᓚᐃ-09	99.258	0.00		27-ᔪᓚᐃ-09	99.477	0.01
	25-ᐋᒍᓯ-09	99.293	0.00		25-ᐋᒍᓯ-09	99.534	0.15
SF5	16-ᔫᓂ-09	99.074	9.27	SF14	26-ᔪᓚᐃ-09	33.930	2.00
	25-ᔪᓚᐃ-09	98.511	0.24	SF15	18-ᔫᓂ-09	99.705	4.00
	25-ᐋᒍᓯ-09	98.589	0.75		6-ᔪᓚᐃ-09	99.290	0.37
SF6	17-ᔫᓂ-09	99.774	6.84 (0.60)		25-ᔪᓚᐃ-09	99.132	0.07
	25-ᔪᓚᐃ-09	99.242	0.08		25-ᐋᒍᓯ-09	99.165	0.12
	25-ᐋᒍᓯ-09	99.093	0.13	SF16	18-ᔫᓂ-09	99.460	0.14
					25-ᔪᓚᐃ-09	99.216	0.02
					25-ᐋᒍᓯ-09	99.227	0.02

ᑎᑎᕋᕐᓯᒪᔪᑦ 3: ᐆᒃᑐᖅᑕᐅᓚᐅᕐᑐᑦ ᑕᓲᑦ ᐃᑎᓂᖏᑦ, 2009ᒥ

ᖃᐅᔨᓴᕐᕕᐅᑉ ᓈᓴᐅᑖ	ᑕᓯᖅ	ᐅᓪᓗᖓ	ᐃᑎᓂᖓ (ᒦᑕᑦ)
LE1	ᐱᐃᓐᑐᕐ ᑕᓯᖓ	17-ᔫᓂ-09	98.906
		25-ᔪᓚᐃ-09	98.285
		25-ᐋᒍᓯ-09	98.316
LE2	ᐊᑎᖅᑲᓐᖏᑦᑐᖅ ᑕᓯᖓ ᑰᖕᕕᐅᔪᖅ ᓲᒃ ᑕᓯᖓᓂᒃ	17-ᔫᓂ-09	99.142
		20-ᔫᓂ-09	99.035
		27-ᔪᓚᐃ-09	98.774
		24-ᐋᒍᓯ-09	98.900
LE3	ᔭᔾ ᓯᓲᓐ ᑕᓯᖓ	17-ᔫᓂ-09	99.816
		25-ᔪᓚᐃ-09	99.680
		25-ᐋᒍᓯ-09	99.578
LE5	ᓯᑭᓂ ᑕᓯᖓ	18-ᔫᓂ-09	99.601
		27-ᔪᓚᐃ-09	99.232
		26-ᐋᒍᓯ-09	99.334
LE6	ᑲᕙᓯᓕᒃ ᑕᓯᖓ	03-ᐋᒍᓯ-07	98.170
		20-Sep-07	98.255
		22-ᔪᓚᐃ-08	98.229
		31-ᐋᒍᓯ-08	98.196
		18-ᔫᓂ-09	98.540
		27-ᔪᓚᐃ-09	98.187
		26-ᐋᒍᓯ-09	98.263
LE7	ᓴᐃᒦᔅ ᑕᓯᖓ	18-ᔫᓂ-09	97.241
		26-ᔪᓚᐃ-09	97.084
		26-ᐋᒍᓯ-09	97.043
LE8	ᐋᓐᑐᕈ ᑕᓯᖓ	18-ᔫᓂ-09	99.460
		6-ᔪᓚᐃ-09	99.028
		25-ᔪᓚᐃ-09	98.871
		25-ᐋᒍᓯ-09	98.882
LE9	ᒪᔅᕈᒻ ᑕᓯᖓ	18-ᔫᓂ-09	99.579
		25-ᔪᓚᐃ-09	99.419
		25-ᐋᒍᓯ-09	99.410

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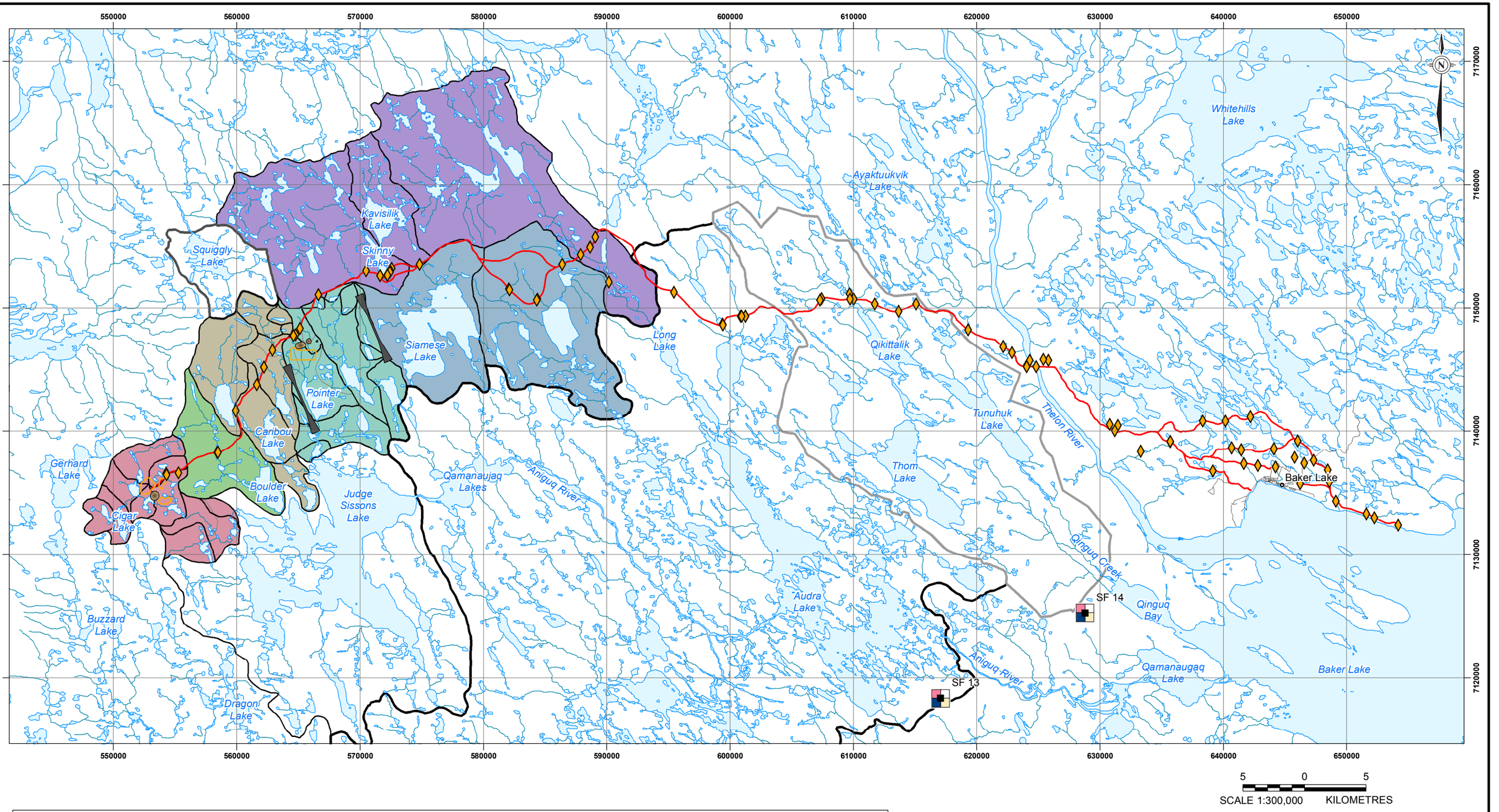
ᑎᑎᕋᕐᓯᒪᔪᑦ 4: ᑕᖅᑭᑕᒫᑦ ᒥᒃᓴᐅᓴᓯᒪᔪᑦ, ᓱᒃᑲᓕᓛᑦ ᓱᒃᑲᐃᓛᓪᓗ ᑰᓐᓂᖏᑕ ᒥᒃᓴᐅᓭᐅᓚᐅᕐᑐᑦ 2009ᖑᑎᓪᓗᒍ (m³/s)

ᖃᐅᔨᓴᕐᕕᐅᑉ ᓈᓴᐅᑖ	ᑰᓐᓂᖓᑕ ᓱᒃᑲᓂᖓ (m³/s)	ᐆᓂ	ᔪᓚᐃ	ᖃᐅᔨᓴᕐᕕᐅᑉ ᓈᓴᐅᑖ	ᑰᓐᓂᖓᑕ ᓱᒃᑲᓂᖓ (m³/s)	ᐆᓂ	ᔪᓚᐃ
SF2	ᒥᒃᓴᐅᓴᓯᒪᔪᑦ		0.06	SF7	ᒥᒃᓴᐅᓴᓯᒪᔪᑦ	17.2	12.4
	ᓱᒃᑲᓕᓛᖅ		0.25		ᓱᒃᑲᓕᓛᖅ	26.1	18.9
	ᓱᒃᑲᐃᓛᖅ		0.01		ᓱᒃᑲᐃᓛᖅ	0.00	8.09
SF3	ᒥᒃᓴᐅᓴᓯᒪᔪᑦ		0.01	SF8	ᒥᒃᓴᐅᓴᓯᒪᔪᑦ	1.76	1.35
	ᓱᒃᑲᓕᓛᖅ		0.06		ᓱᒃᑲᓕᓛᖅ	2.80	1.99
	ᓱᒃᑲᐃᓛᖅ		0.00		ᓱᒃᑲᐃᓛᖅ	0.00	0.85
SF4	ᒥᒃᓴᐅᓴᓯᒪᔪᑦ		0.00	SF13	ᒥᒃᓴᐅᓴᓯᒪᔪᑦ	83.4	38.0
	ᓱᒃᑲᓕᓛᖅ		0.00		ᓱᒃᑲᓕᓛᖅ	128	75.3
	ᓱᒃᑲᐃᓛᖅ		0.00		ᓱᒃᑲᐃᓛᖅ	0.00	20.3
SF5	ᒥᒃᓴᐅᓴᓯᒪᔪᑦ	4.29	0.77	SF14	ᒥᒃᓴᐅᓴᓯᒪᔪᑦ		3.43
	ᓱᒃᑲᓕᓛᖅ	8.77	1.92		ᓱᒃᑲᓕᓛᖅ		7.26
	ᓱᒃᑲᐃᓛᖅ	0.00	0.23		ᓱᒃᑲᐃᓛᖅ		2.12
SF6	ᒥᒃᓴᐅᓴᓯᒪᔪᑦ	2.53	0.29	SF15	ᒥᒃᓴᐅᓴᓯᒪᔪᑦ	1.84	0.21
	ᓱᒃᑲᓕᓛᖅ	5.40	0.95		ᓱᒃᑲᓕᓛᖅ	3.97	0.65
	ᓱᒃᑲᐃᓛᖅ	0.00	0.08		ᓱᒃᑲᐃᓛᖅ	0.00	0.04



Legend

Stream Flow Monitoring/ Lake Elevation Stations

2008 2007 Continuous Water Level Sensor 2009 2010 (Proposed)

- Aniguq River Basin
- Aniguq River Sub-Basin
- Qinquq Creek Basin
- Thelon River Sub-Basin
- Boulder Lake Sub-Basin
- Caribou Lake Sub-Basin
- Kavisilik Lake Sub-Basin
- Lower Lake Sub-Basin
- Siamese Lake Sub-Basin
- Willow Lake Sub-Basin
- Pit
- Clean Waste Rock Pile
- Airstrip
- 2009 North All Weather Road Crossing
- Proposed North All Weather Access Road

Reference:
Atlas of Canada
NTS Mapsheets 56D/66A/66B
NAD 83 UTM Zone 14

PROJECT
AREVA

AREVA RESOURCES CANADA INC.
KIGGAVIK/SISSONS PROJECT

TITLE

2009 AND 2010 PROPOSED MONITORING STATIONS REGIONAL STUDY AREA

Golder Associates
Saskatoon, Saskatchewan

PROJECT		09-1362-0610	FILE No.		
DESIGN			SCALE AS SHOWN	REV.	0
GIS	MGD/MK	21/01/10			
CHECK	SG	30/03/10			
REVIEW	BT	30/03/10			

FIGURE: 1A

G:\2009\1362\09-1362-0610 AREVA Kiggavik Baseline and EIA\KI\08_Environment\D_Hydrology\Maps\KI08D113-2009 Monitoring Stations - Regional Study Area_2010 NRI Research License.mxd

530000 540000 550000 560000 570000 580000 590000 600000 610000

7170000 7160000 7150000 7140000 7130000

Aberdeen Lake
Kavisilik Lake
Squiggly Lake
Skinny Lake
Siamese Lake
Long Lake
Ayaktuukvik Lake
Qikittalik Lake
Sleek Lake
Pointer Lake
Caribou Lake
Gerhard Lake
Boulder Lake
Judge Sissons Lake
Qamanaujaq Lakes
Aniguq River
Thom Lake
Cigar Lake
Audra Lake

LE1 LE2 LE3 LE4 LE5 LE6 LE7 LE8 LE9

SF 1 SF 2 SF 3 SF 4 SF 5 SF 6 SF 7 SF 8 SF 10 SF 11 SF 15 SF 16

N

5 0 5

SCALE 1:250,000 KILOMETRES

Legend

Stream Flow Monitoring/ Lake Elevation Stations

2008 2007 Continuous Water Level Sensor 2009 2010 (Proposed)

- Aniguq River Basin
- Aniguq River Sub-Basin
- Qinquq Creek Basin
- Thelon River Sub-Basin
- Boulder Lake Sub-Basin
- Caribou Lake Sub-Basin
- Kavisilik Lake Sub-Basin
- Lower Lake Sub-Basin
- Siamese Lake Sub-Basin
- Willow Lake Sub-Basin
- Pit
- Clean Waste Rock Pile
- Airstrip
- Proposed Lake Current Monitoring
- Proposed North All Weather Access Road

Reference:
Atlas of Canada
NTS Mapsheets 56D/66A/66B
NAD 83 UTM Zone 14

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PROJECT	09-1362-0610		FILE No.	
DESIGN			SCALE AS SHOWN	REV. 0
GIS	MGD/MK	21/01/10		
CHECK	SG	30/03/10		
REVIEW	BT	30/03/10		

FIGURE: 1B

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