



TECHNICAL SUPPORTING DOCUMENT

Mary River Project | Phase 2 Proposal | FEIS Addendum | August 2018

TSD 05

Mary River Inuit Knowledge Study Mapbook



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Prepared for

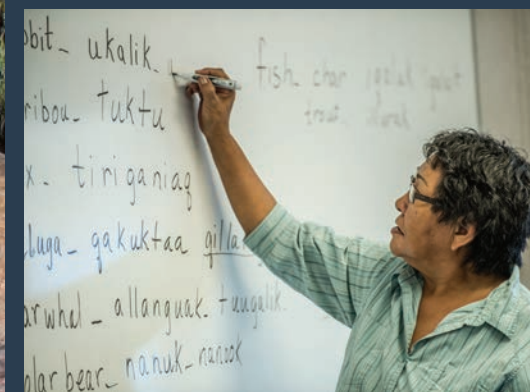


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**MARY RIVER PROJECT
INUIT KNOWLEDGE STUDY
MAP BOOK**

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Prepared by

Knight Piésold
CONSULTING

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Mary River Mine Site



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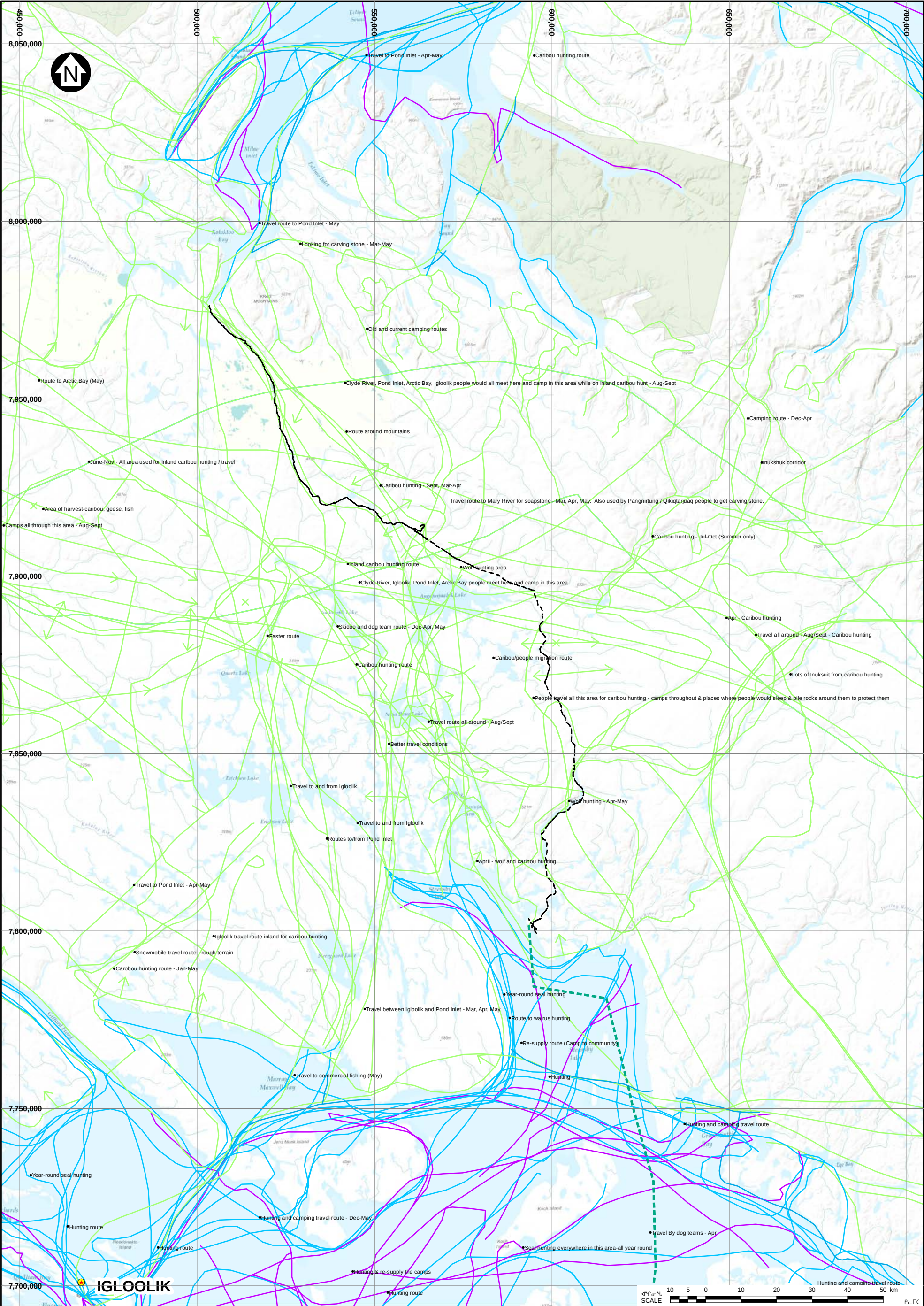
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SECTION 1



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INUIT AND THE LAND

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LEGEND:

- LAND TRAVEL ROUTE
- ICE TRAVEL ROUTE
- WATER TRAVEL ROUTE
- MILNE INLET TOTE ROAD
- PROPOSED RAILWAY ALIGNMENT
- NOMINAL SHIPPING ROUTE

NOTES:

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2. COORDINATE GRID IS SHOWN IN UTM (NAD83) ZONE 17 AND IS IN METRES.
3. THIS MAP WAS PRODUCED FROM INFORMATION COLLECTED DURING INUIT QAUJIMAJATUQANGIT WORKSHOPS IN THE COMMUNITIES OF ARCTIC BAY (JULY 22-23, 2008), CLYDE RIVER (JULY 18-19, 2008), HALL BEACH (JULY 9-9, 2008), IGLOOLIK (JULY 10-12, 2008) AND POND INLET (JULY 15-17 AND SEPTEMBER 4, 2008). THIS INFORMATION SHOWS PATTERNS OF LAND USE AND LOCAL KNOWLEDGE OF THE LAND. THE MAP IS NOT INTENDED TO BE A COMPLETE REPRESENTATION OF WHAT IS KNOWN.

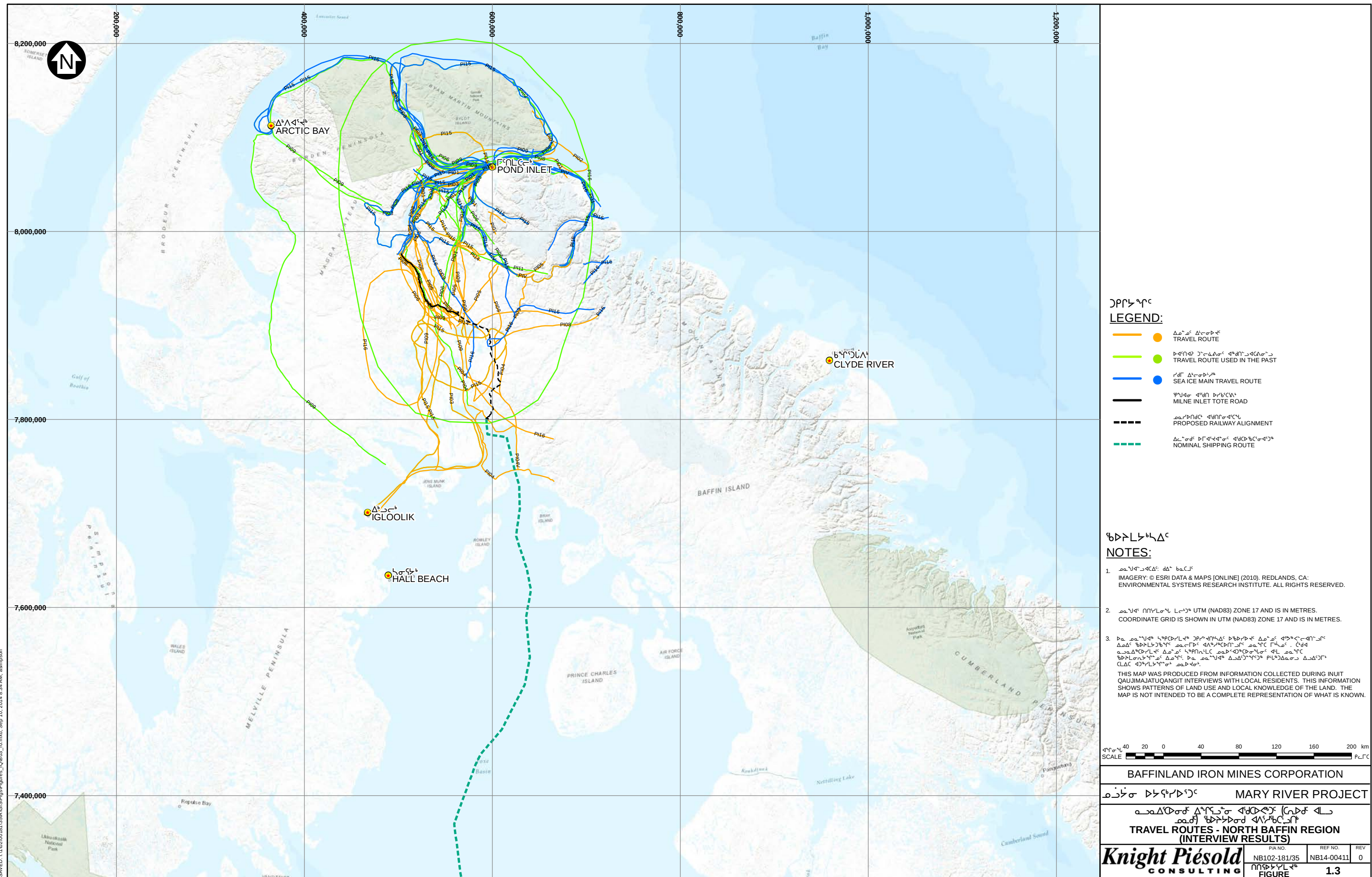
BAFFINLAND IRON MINES CORPORATION

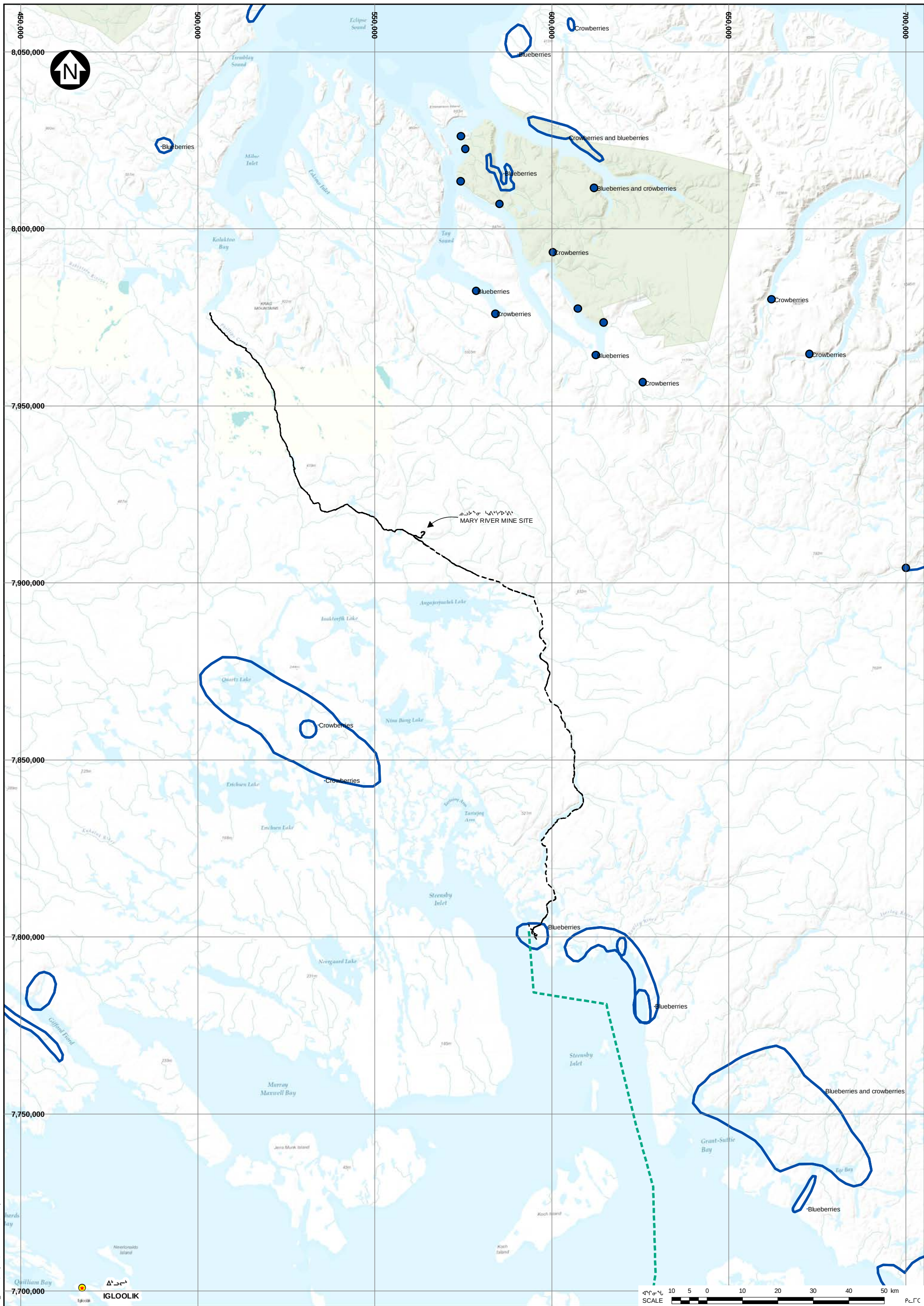
MARY RIVER PROJECT

TRAVEL ROUTES - PROJECT STUDY AREA
(WORKSHOP RESULTS)

Knight Piésold
CONSULTING

P/A NO. NB102-181/35
REF NO. NB14-00411
REV 0
FIGURE 1.2





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-   **BERRY PICKING PLACES**
-  **MILNE INLET TOTE ROAD**
-  **PROPOSED RAILWAY ALIGNMENT**
-  **NOMINAL SHIPPING ROUTE**

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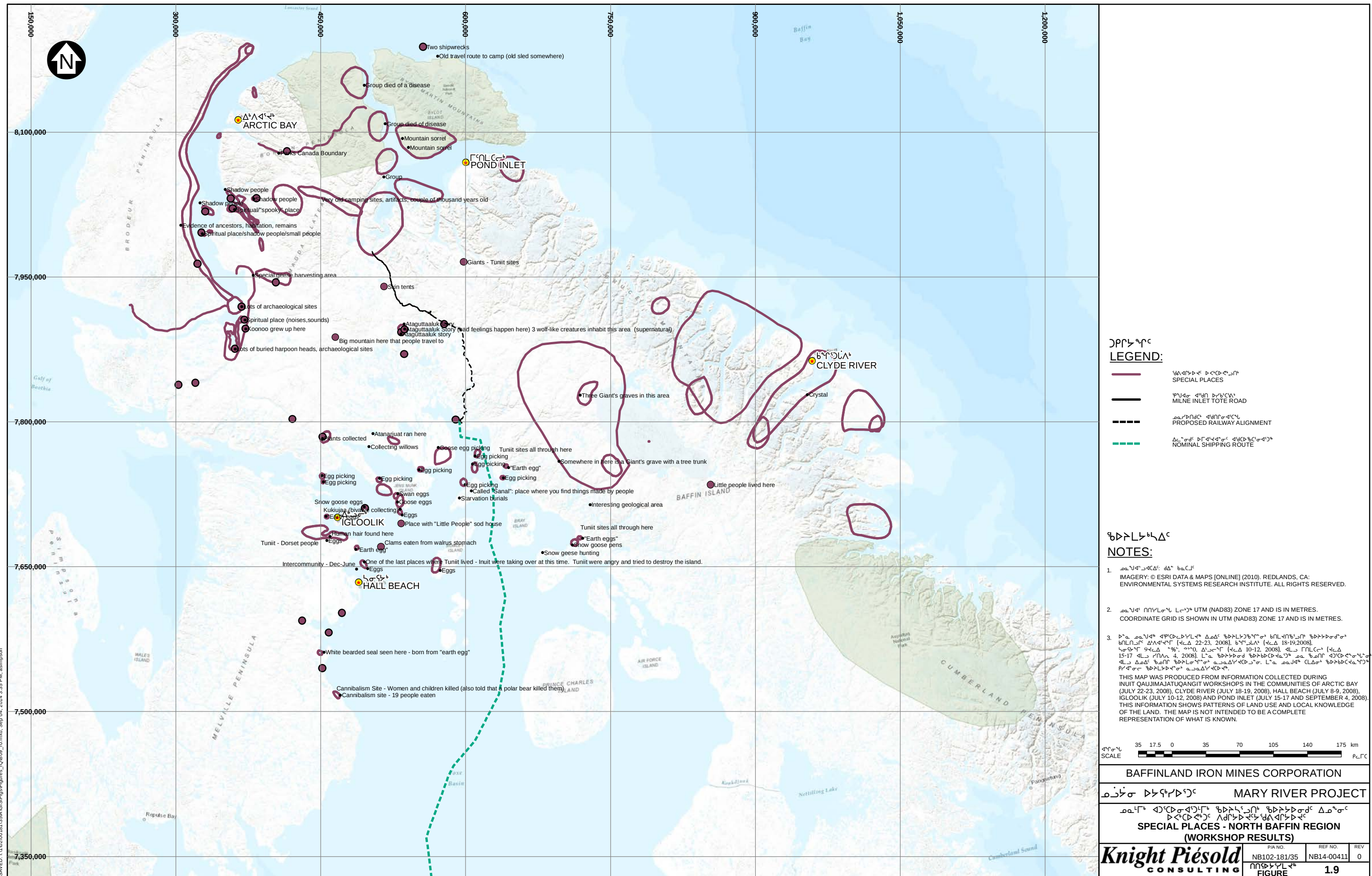
MARY RIVER PROJECT

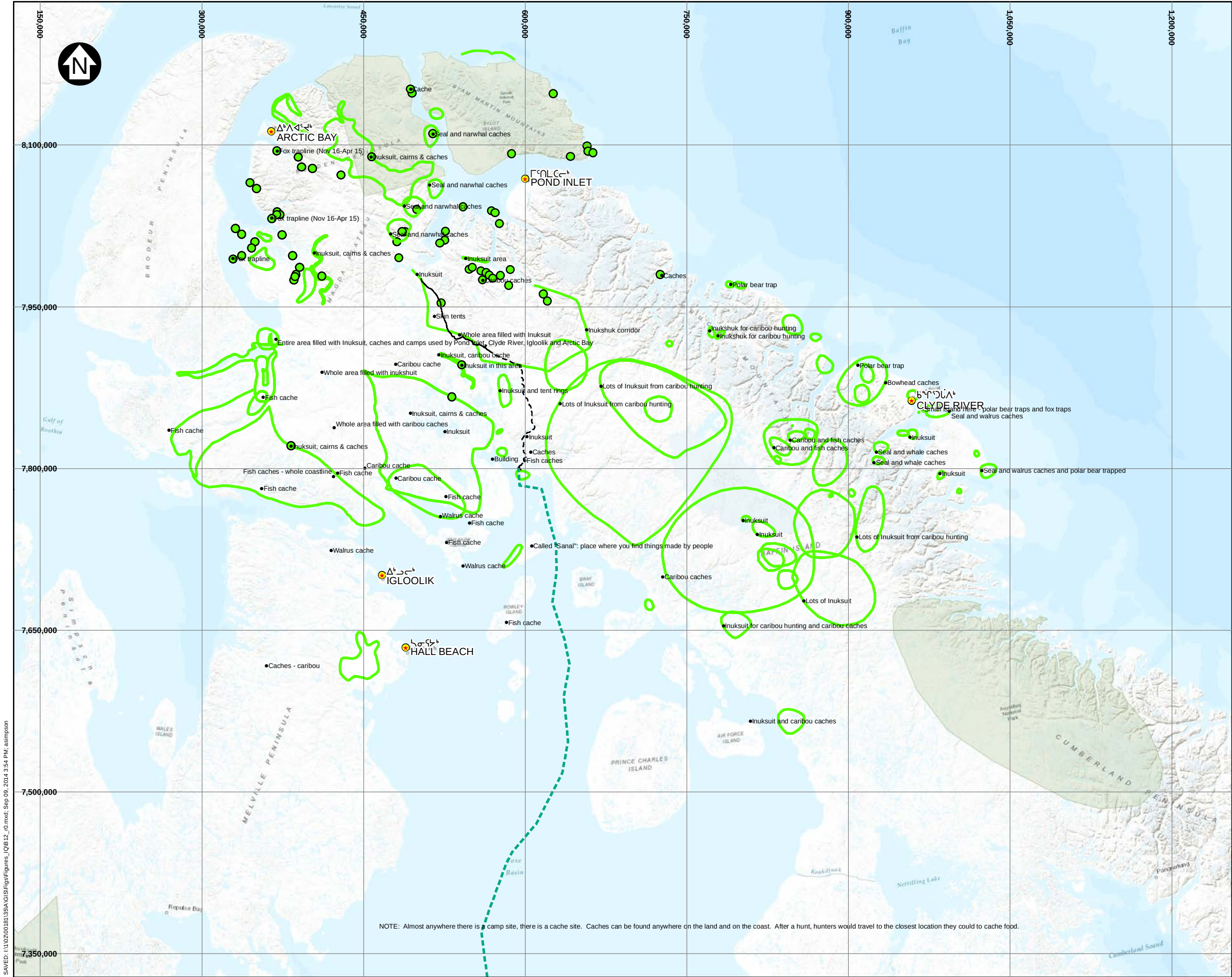
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BERRY PICKING LOCATIONS - PROJECT STUDY AREA
(WORKSHOP RESULTS)

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P/A NO.	REF NO.	REV
NB102-181/35	NB14-00411	0


FIGURE 1.6



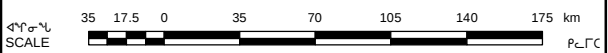


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OLD MAN-MADE ITEMS/FEATURES
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MILNE INLET TOTE ROAD
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PROPOSED RAILWAY ALIGNMENT
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NOMINAL SHIPPING ROUTE

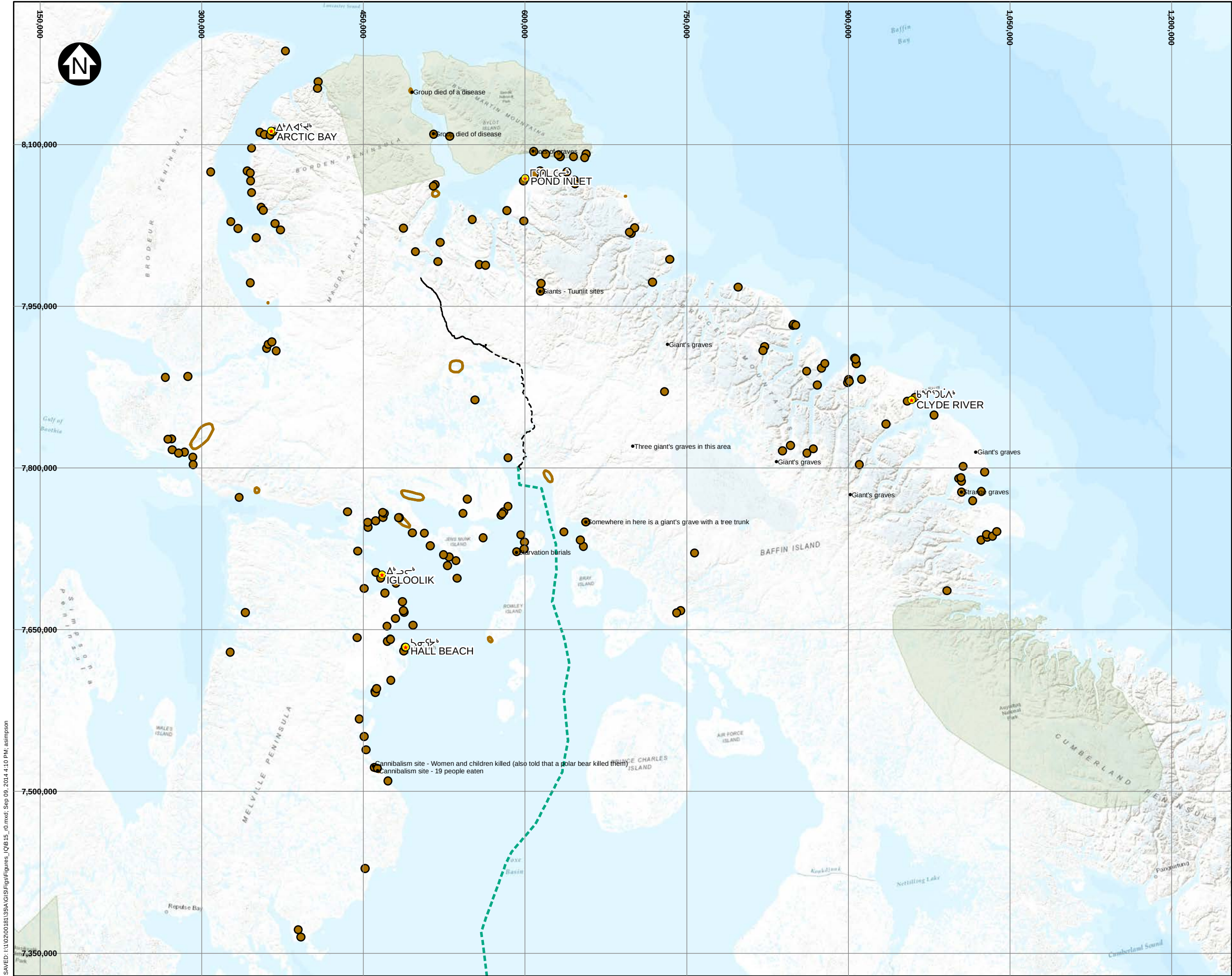
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NOTES:

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IMAGERY: © ESRI DATA & MAPS [ONLINE] (2014). REDLANDS, CA: ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE. ALL RIGHTS RESERVED.
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THIS MAP WAS PRODUCED FROM INFORMATION COLLECTED DURING INUIT QAUJIMAJATUQANGIT WORKSHOPS IN THE COMMUNITIES OF ARCTIC BAY (JULY 22-23, 2008), CLYDE RIVER (JULY 18-19, 2008), HALL BEACH (JULY 8-9, 2008), IGLOOLIK (JULY 10-12, 2008) AND POND INLET (JULY 15-17 AND SEPTEMBER 4, 2008). THIS INFORMATION SHOWS PATTERNS OF LAND USE AND LOCAL KNOWLEDGE OF THE LAND. THE MAP IS NOT INTENDED TO BE A COMPLETE REPRESENTATION OF WHAT IS KNOWN.



BAFFINLAND IRON MINES CORPORATION			
MARY RIVER PROJECT			
HISTORIC SITES - NORTH BAFFIN REGION (WORKSHOP RESULTS)			
Knight Piésold CONSULTING	P/A NO. NB102-181/35	REF NO. NB14-00411	REV 0
	FIGURE 1.13		

NOTE: Almost anywhere there is a camp site, there is a cache site. Caches can be found anywhere on the land and on the coast. After a hunt, hunters would travel to the closest location they could to cache food.



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LEGEND:

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- OLD GRAVES AND HUMAN BONES
- ᑭᑲᑭᑦ ᐱᓗᐱᓂᑦ ᑭᑲᑭᑦ
- MILNE INLET TOTE ROAD
- ᐃᓗᐱᓂᑦ ᐱᓗᐱᓂᑦ ᐱᓗᐱᓂᑦ
- PROPOSED RAILWAY ALIGNMENT
- ᐃᓗᐱᓂᑦ ᐱᓗᐱᓂᑦ ᐱᓗᐱᓂᑦ
- NOMINAL SHIPPING ROUTE

NOTES:

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35 17.5 0 35 70 105 140 175 km

SCALE

BAFFINLAND IRON MINES CORPORATION

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GRAVESITES - NORTH BAFFIN REGION

(WORKSHOP RESULTS)

Knight Piésold

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P/A NO.	REF NO.	REV
NB102-181/35	NB14-00411	0

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FIGURE 1.17

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SECTION 2



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LANDMAMMALS



This map is a set example of the results of Inuit Qaujimajatuqangit (Traditional Knowledge) of caribou seasonal/historical distribution, abundance, and migration/movement routes in the Mary River area of north Baffin Island, Nunavut. The information was collected as part of the environmental baseline studies for Baffinland Iron Ore Corporation's proposed Mary River Project.

Data sources:

- Caribou Polygons and Lines — Inuit Qaujimajatuqangit (Traditional Knowledge) of caribou seasonal/historical distribution, abundance, and migration/movement routes are derived from a series of public and invited meetings in Pond Inlet, Clyde River, Hall Beach, Igluik, and Arctic Bay during February and March, 2008. Invited members include select elders, hunters and other invited key knowledge holders. Public meetings included a variety of community members with local and traditional knowledge of caribou distribution, movement, and abundance. Information collection was focused on the Mary River area (approximate centre of the map) so the information does not necessarily reflect complete Inuit Qaujimajatuqangit outside of that region.
- 1:250,000 waterbodies, watercourses, contours — National Topographic Database (NTDB) 1:250 k digital data (<http://www.geogratis.gc.ca/>). Government of Canada, Natural Resources Canada, Centre for Topographic Information (Shetbrooke)
- 1:10,000,000 Bathymetry — National Atlas of Canada, Government of Canada; Instituto Nacional de Estadística, Geografía e Informática (INEGI); U.S. Geological Survey (<http://www.geogratis.gc.ca/>).

Legend

Caribou Activity and Seasonal Land Use

- known/suspected calving areas
- known/suspected breeding areas
- winter concentrations
- other activities
- fall migration
- spring migration
- movement - season undetermined

Topography

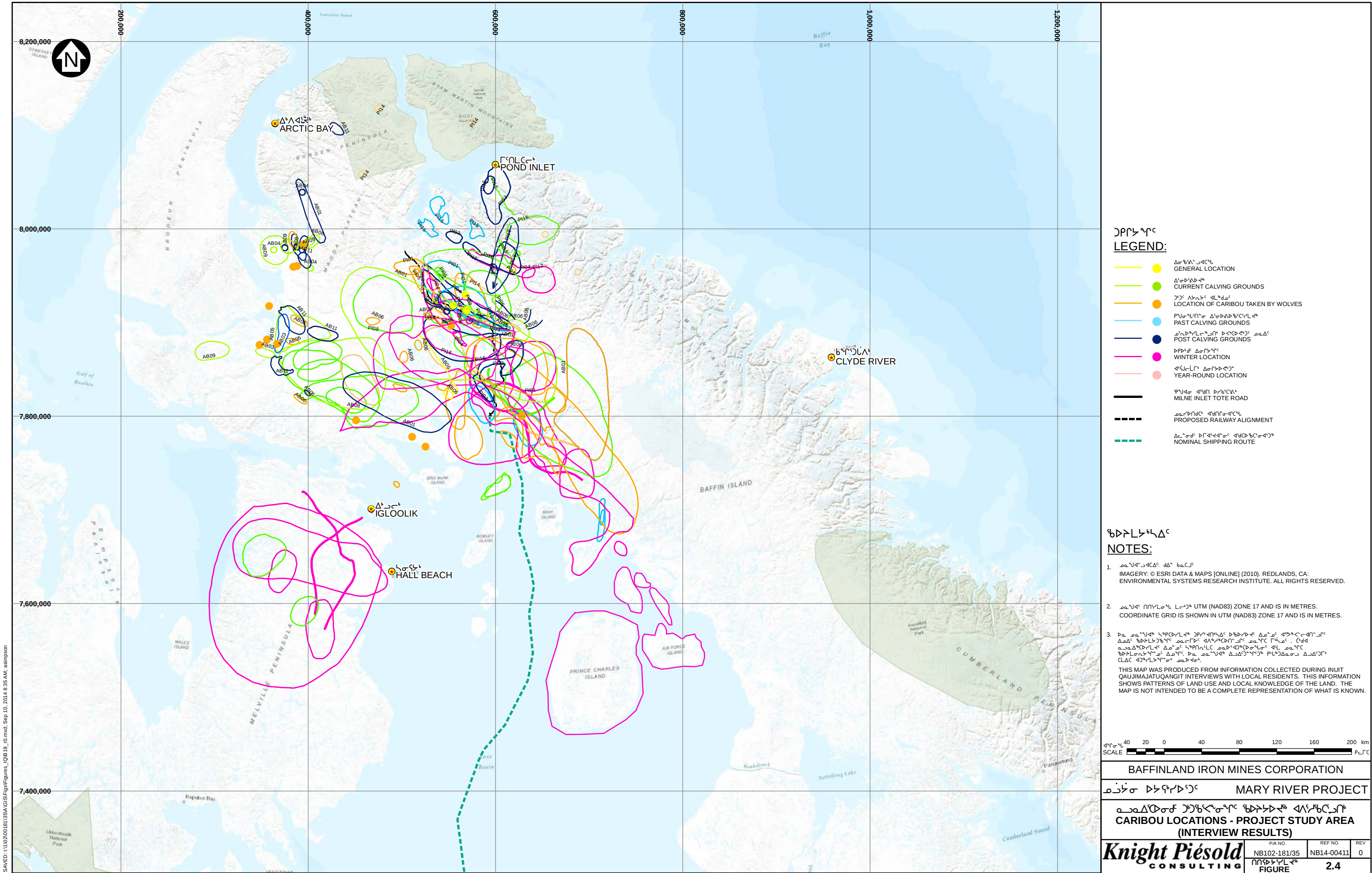
- waterbody
- watercourse
- icesheet
- contours - 100 metre

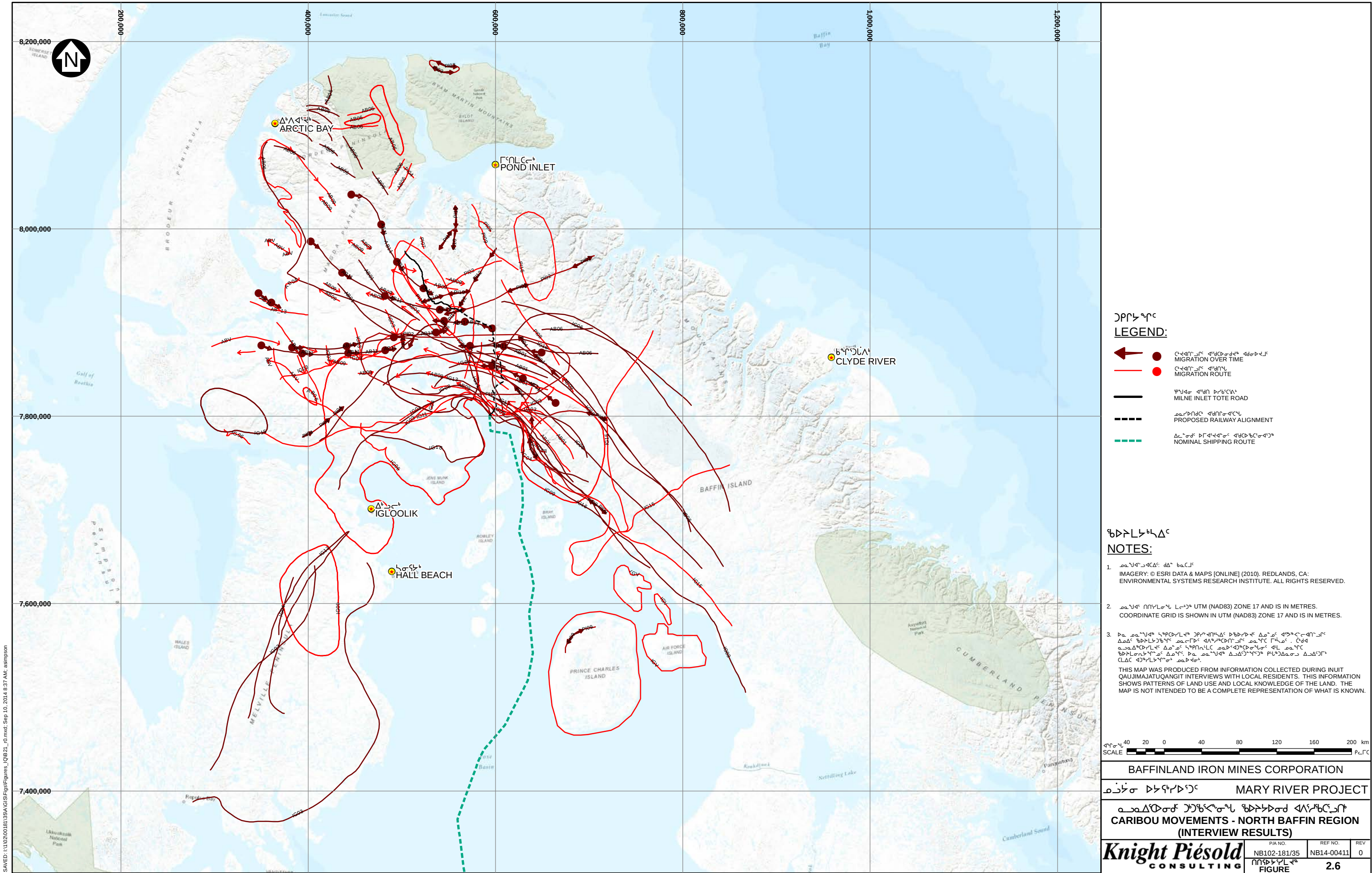


Caribou Inuit Qaujimajatuqangit Line and Polygon Notations

Feature ID	Notes - Igluik Workshop	Feature ID	Notes - Pond Inlet Workshop	Feature ID	Notes - Arctic Bay Workshop	Feature ID	Clyde River Workshop
IG 001	Visible caribou trails in this area	PI 001	Past fall migration, past spring migration	PI 050	Spring seasonal movement	CR 001	Caribou moved towards Qikqajajuk in 1970s/80s and are now coming back.
IG 002	Visible caribou trails in this area	PI 002	Spring seasonal movement, late 1970s	PI 051	Fall seasonal movement	CR 002	Caribou moved towards Qikqajajuk in 1970s/80s and are now coming back.
IG 003	Visible caribou trails in this area	PI 003	Spring seasonal movement, late 1970s	PI 052	Fall seasonal movement	CR 003	Caribou moved towards Qikqajajuk in 1970s/80s and are now coming back.
IG 004	Visible caribou trails in this area	PI 004	Spring seasonal movement, fresh tracks, plenty harvested March '06	PI 053	Spring seasonal movement	CR 004	Old spring migration 1920s/1930s.
IG 005	Area full of trails.	PI 005	Sept. caribou movement, hunting	PI 054	Fall seasonal movement	CR 005	Old fall migration 1920s/1930s.
IG 006	Unspecified	PI 006	Sept. caribou movement, hunting	PI 055	Fall seasonal movement	CR 006	In January start moving uphill.
IG 007	Calving caribou through this area in 1987. Pond Inlet HTD conducted survey here	PI 007	Females with calves migrating Feb '07	PI 056	Spring seasonal movement	CR 007	In January start moving uphill.
IG 008	Caribou in mountains	PI 008	Females with calves May '07	PI 057	Fall seasonal movement	CR 008	These movements are larger herds.
IG 009	Rutting on latitudes - 1961. Hunting here August 2006	PI 009	March, April spring seasonal movement	PI 058	Spring seasonal movement	CR 009	May - These movements are larger herds.
IG 010	Calving here when caribou abundant late 1980s, early 1990s. Bones 1957-1958, covered in moss/lichen	PI 010	Unspecified	PI 059	Fall seasonal movement	CR 010	These movements are larger herds.
IG 011	Caribou usually in this area	PI 011	Fall seasonal movement	PI 060	Spring seasonal movement	CR 011	These movements are larger herds.
IG 012	Numerous caribou in Aug 1986. No caribou tracks winter 2008	PI 012	Fall seasonal movement	PI 061	Fall seasonal movement	CR 012	Hunting all year round. Currently there are few.
IG 013	This land used to have caribou up to time when there was rain in winter (c. 1943)	PI 013	Fall seasonal movement	PI 062	Fall seasonal movement	CR 013	Used to be caribou - 2003
IG 014	Calving in lowlands recently.	PI 014	Fall seasonal movement	PI 063	2005 caribou crossing	CR 014	Caribou calving here <1956.
IG 015	Calves and cows once here	PI 015	Fall seasonal movement	PI 064	Caribou crossing during high abundance	CR 015	Caribou always here
IG 016	11 caribou harvested here April 30, 2007	PI 016	Fall seasonal movement	PI 065	Caribou crossing during high abundance	CR 016	Hunting area all year.
IG 017	Bulls here once	PI 017	Fall seasonal movement	PI 066	Caribou crossing mid-September during high abundance	CR 017	Hunting area all year.
IG 018	Elder with young in water in great abundance	PI 018	Fall seasonal movement	PI 067	Caribou crossing mid-September during high abundance	CR 018	Hunting area all year.
IG 019	Have seen cows and calves here recently	PI 019	Fall seasonal movement	PI 068	Caribou crossing mid-September during high abundance	CR 019	Hunting all year.
IG 020	Men would hunt here for new calves for clothing (traditional knowledge)	PI 020	Fall seasonal movement	PI 069	Caribou crossing mid-September during high abundance	CR 020	Spring Hunting
IG 021	Has been known to be a calving area long time ago (traditional knowledge)	PI 021	Spring seasonal movement	PI 070	Possible refugia, even when caribou are scarce. Hunt by foot from Igluik, HB. Historical, <white men	CR 021	Unspecified
IG 022	Around 2000 (year), many caribou along beach, but none there now.	PI 022	Spring seasonal movement	PI 071	Posss. refugia. Caribou even when scarce. Hunt by foot from Igluik, HB. Historical, <white men	CR 022	Always caribou here esp. cows and calves.
IG 023	Calves hunted here once recently	PI 023	Fall seasonal movement	PI 072	Females with calves September '06	CR 023	Could catch calves before 1942.
IG 024	Traditional knowledge calving area	PI 024	Spring seasonal movement	PI 073	Females with calves September '06	CR 024	Calves here now (present time).
IG 025	There have always been caribou here	PI 025	Fall seasonal movement	PI 074	Mating area based on lots of antlers	CR 025	No comment provided.
IG 026	Hunting area - 1956, but not a hunting area currently	PI 026	Spring seasonal movement	PI 075	Calving when abundant	CR 026	When in area, they will calve at the end of inlets in high rocky areas.
IG 027	Some caribou harvested here February 2008	PI 027	Fall seasonal movement	PI 076	"Offroad" calving area "30my area"	CR 027	Summer caribou hunting - always there.
IG 028	Some caribou have always been harvested here, but not necessarily recently	PI 028	Spring seasonal movement	PI 077	Females with calves, September '64	CR 028	When in area, they will calve at the end of inlets in high rocky areas.
IG 029	Calving 1982-1983	PI 029	Bulls, seasonal movement	PI 078	Non-migratory local herd	CR 029	Used to be lots of caribou in this entire area around 1940s possibly 1930s.
IG 030	Calves fat area top of mountains, Qlitaq (glacier/placement), pass, not using area now.	PI 030	Bulls, seasonal movement	PI 079	Unspecified	CR 030	Spring hunting in 1940s.
IG 031	Caribou here in winter, including currently - '08. Caribou here spring 2008.	PI 031	Bulls, seasonal movement	PI 080	Always has some caribou, even during low cycle	CR 031	When in area, they will calve at the end of inlets in high rocky areas.
Feature ID	Notes - Hall Beach Workshop	PI 032	Bulls, seasonal movement	PI 081	Calve here when abundant, but can always calve here scattered and in low abundance	CR 032	When in area, they will calve at the end of inlets in high rocky areas.
HB 001	Unspecified	PI 033	Spring seasonal movement	PI 082	Calve here when abundant, but can always calve here scattered and in low abundance	CR 033	No comment provided.
HB 002	Unspecified	PI 034	Spring seasonal movement	PI 083	Used all the time for calving even when pop. is low will always find cows and calves here	CR 034	When there are caribou in the area, they calve here.
HB 003	Trails abundant in area. Caribou do not stay due to mountainous terrain - mostly pass through.	PI 035	Spring seasonal movement	PI 084	Calving 1992-1995 during peak population, and always calve here scattered in low abundance	CR 035	Mossy bmeals always in this area.
HB 004	Have found Caribou here in the past, between the hills, not the same now.	PI 036	Spring seasonal movement	PI 085	Calving 1992-1995 during peak population, and always calve here scattered in low abundance	CR 036	Mossy bmeals always in this area.
HB 005	Timothy found caribou - 60%. A place to go when not too many caribou. Good for hunting in winter.	PI 037	Spring seasonal movement	PI 086	Calving 1992-1995 during peak population, and always calve here scattered in low abundance	CR 037	Mossy bmeals always in this area.
HB 006	Arctic Bay people hunting here this year. Not many caribou.	PI 038	Spring seasonal movement	PI 087	Calving 1992-1995 during peak population, and always calve here scattered in low abundance	CR 038	Every year.
HB 007	Good hunting in spring best of June. Some harvest in 2007.	PI 039	Spring seasonal movement	PI 088	Always has caribou in general area, but not many		
HB 008	Caribou in Summer.	PI 040	Spring seasonal movement	PI 089	Always has caribou in general area, but not many		
HB 009	Caribou currently here - spring 2008.	PI 041	Fall seasonal movement	PI 090	Always has caribou in general area, but not many		
HB 010	Caribou winter here - 2008	PI 042	Fall seasonal movement	PI 091	Caribou seen here winter (between October to February) 2007		
HB 011	Caribou winter here - 2008	PI 043	Fall seasonal movement	PI 092	Caribou seen here winter (between October to February) 2007		
		PI 044	Fall seasonal movement	PI 093	Potential rutting area (which are generally at coastal areas)		
		PI 045	Fall seasonal movement	PI 094	No comment		
		PI 046	Spring seasonal movement	PI 095	Winter 1995-1998 during high abundance years		
		PI 047	Spring seasonal movement	PI 096	Winter 1995-1998 during high abundance		
		PI 048	Spring seasonal movement	PI 097	No comments		
		PI 049	Spring seasonal movement	PI 098	No comments		
				PI 099	No comments		

Figure 2.3 Caribou IQ Study Workshop Results



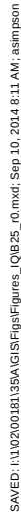


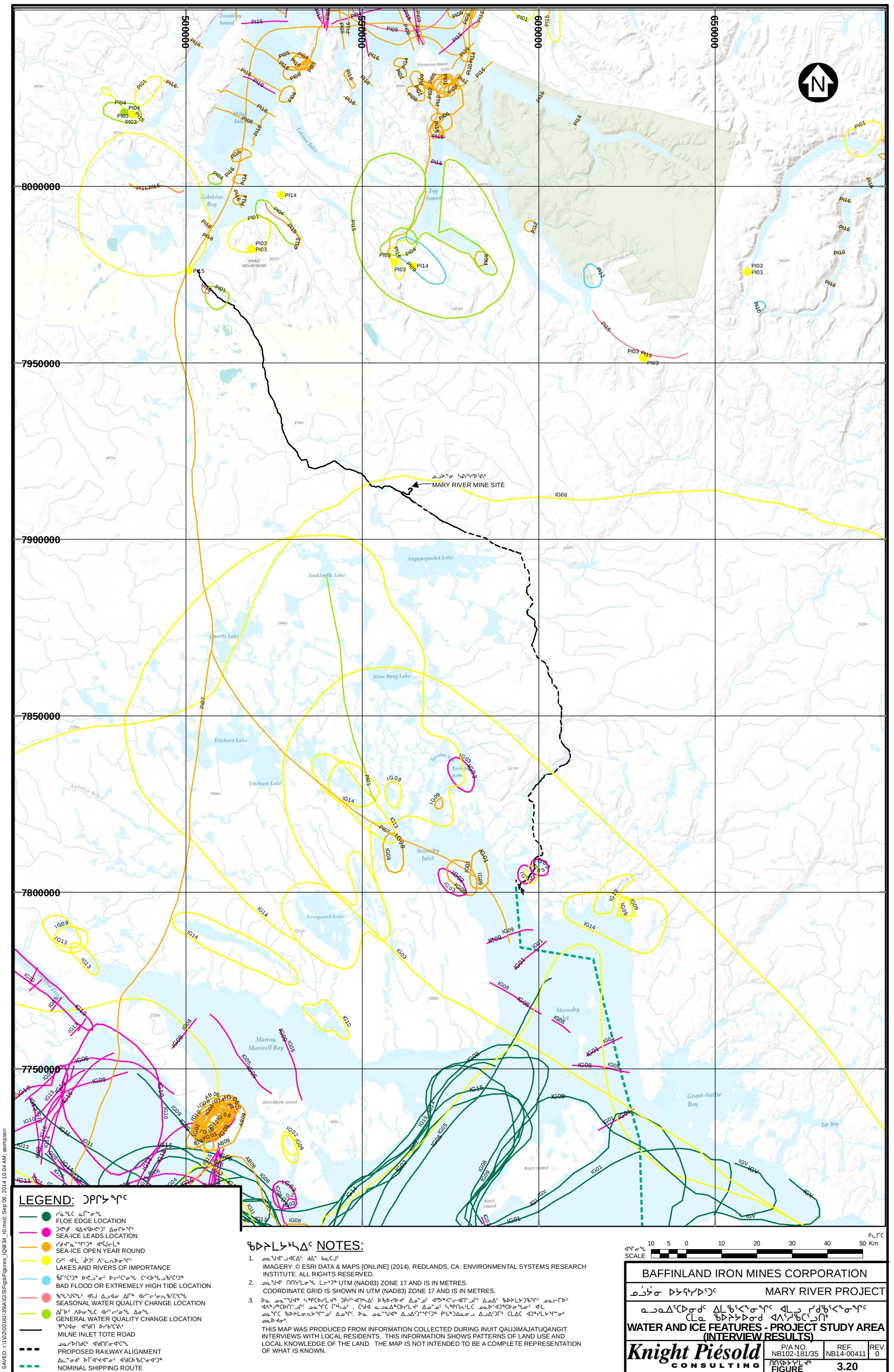
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SECTION 3



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MARINE MAMMALS





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SECTION 4



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BIRDS

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