

**NOTE (S)**

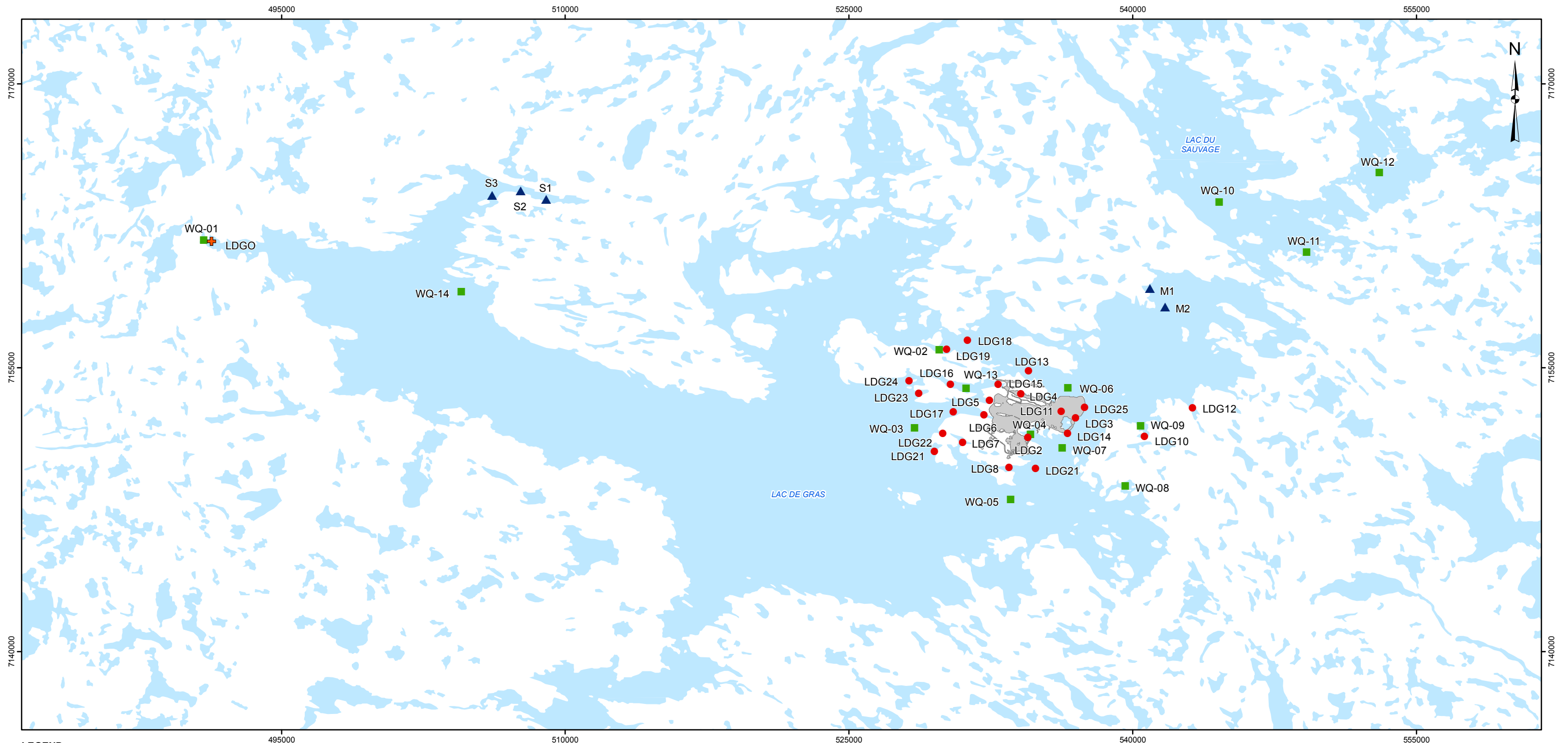
- ① FRAPE AND FRITZ INTERPRETATION:  $\text{LOG (TDS)} = 3.0 + 1.5 \times 10^{-3} (\text{DEPTH})$   
(BLOWES AND LOGSDON MEMO SEPT. '97)
- ② DIAVIK / LUPIN DATA: EQUATION:  $\text{LOG (TDS)} = 2.1 + 1.8 \times 10^{-3} (\text{DEPTH})$

**REFERENCE**

DATA OBTAINED FROM FRAPE AND FRITZ (1987)

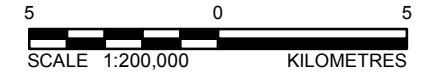
PROJECT		<b>DIAVIK DIAMOND MINES NORTHWEST TERRITORIES</b>			
TITLE		<b>CONCENTRATION OF TOTAL DISSOLVED SOLIDS RELATIVE TO DEPTH</b>			
PROJECT		1648005		FILE No. 11000-GC-0034	
DESIGN	TD	26/11/09	SCALE	AS SHOWN	REV. 0
CADD	RFM	12/01/17	<b>FIGURE: 3-15</b>		
CHECK	LJ	18/04/17			
REVIEW	GM	18/04/17			



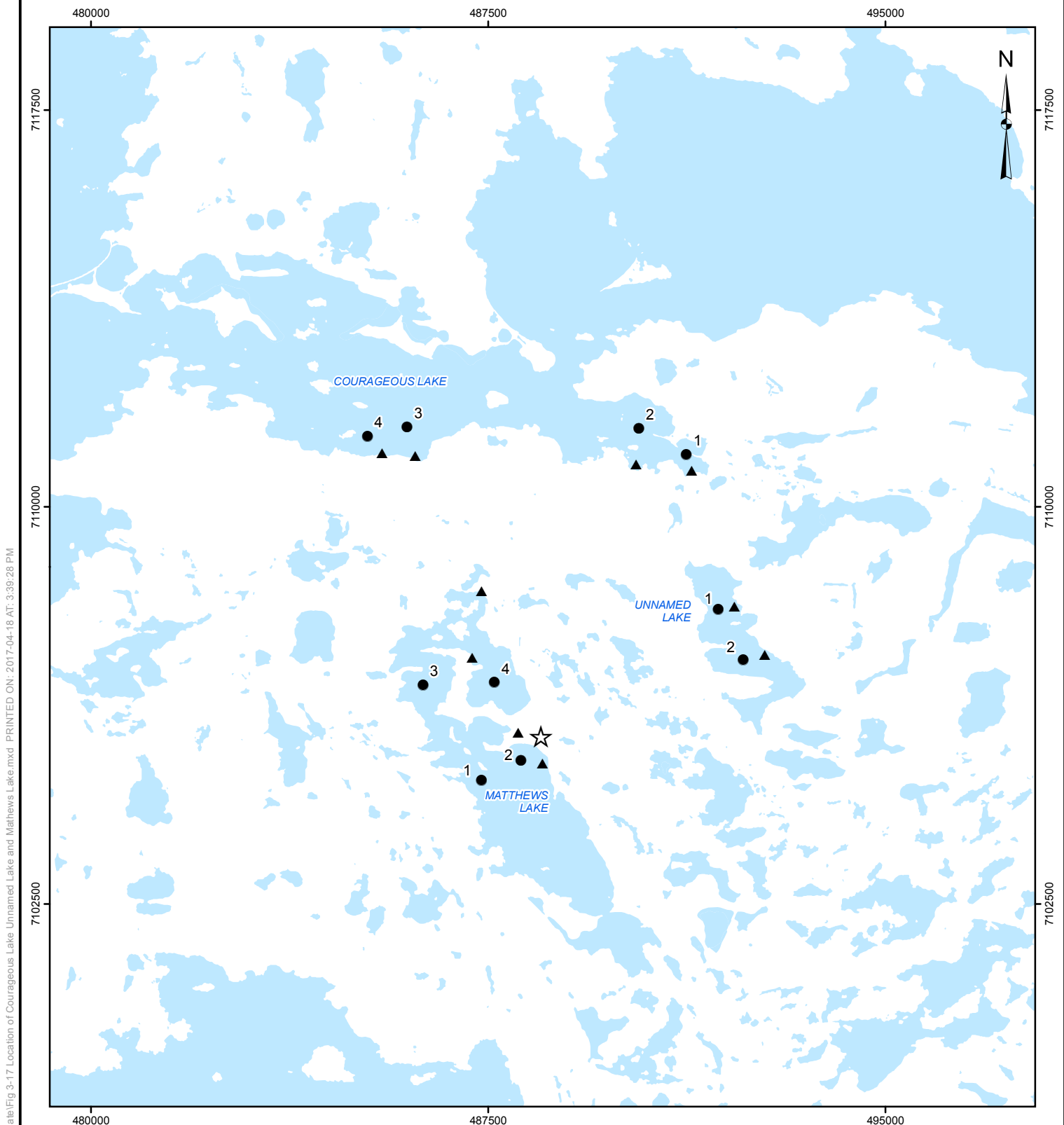


- LEGEND**
- 1994 - 1995 MONITORING STATION
  - 1996 - 1999 MONITORING STATION
  - ▲ BHP AEMP MONITORING STATION
  - ⊕ DIAND WATER QUALITY STATION
  - DIAVIK FOOTPRINT
  - WATERBODY

**REFERENCE**  
 HYDROGRAPHY DATA OBTAINED FROM CANVEC © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.  
 PROJECTION: UTM ZONE 12 DATUM: NAD 83



PROJECT	DIAVIK DIAMOND MINES NORTHWEST TERRITORIES		
TITLE	WATER QUALITY SAMPLING STATIONS DURING THE BASELINE SURVEYS		
	PROJECT No. 1648005	SCALE AS SHOWN	REV. 0
	DESIGN TD 18 Nov. 2009	<b>FIGURE: 3-16</b>	
	GIS WV 18 Apr. 2017		
	CHECK LJ 18 Apr. 2017		
	REVIEW GM 18 Apr. 2017		



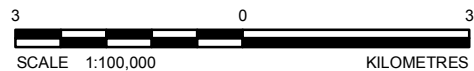
PATH: I:\CLIENTS\DIAMOND\1648005\Mappping\MXD\CRP\_update\Fig 3-17 Location of Courageous Lake, Unnamed Lake and Matthews Lake.mxd PRINTED ON: 2017-04-18 AT: 3:39:28 PM

**LEGEND**

- ▲ LITTORAL
- ★ ORE DEPOSIT
- PELAGIC
- WATERBODY

**REFERENCE**

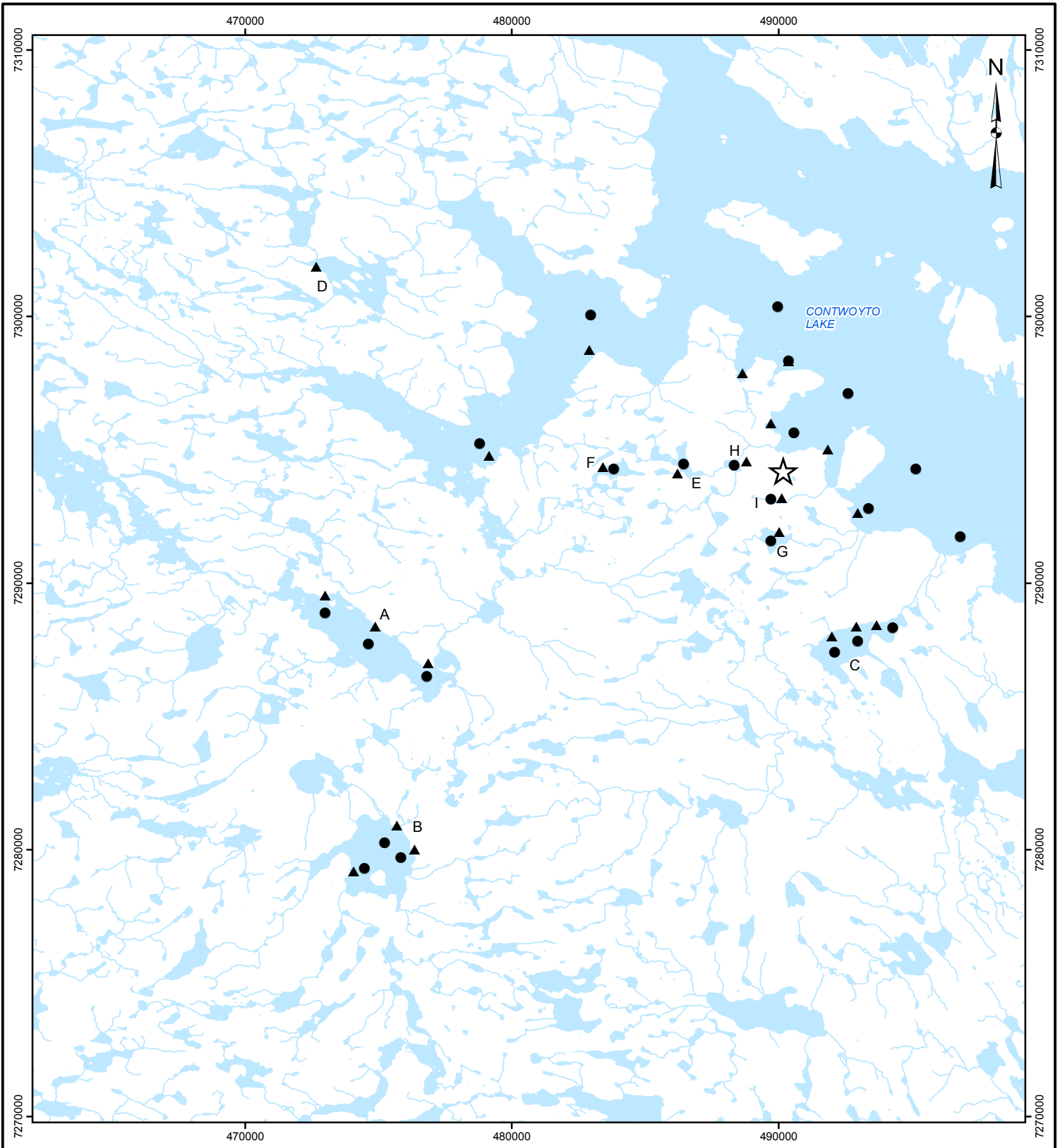
FIGURE 2 MAP OF STUDY AREA SHOWING COLLECTION SITES, ENVIRONMENTAL PROTECTION SERVICE, NW-78-7; 1978. HYDROGRAPHY DATA OBTAINED FROM CANVEC © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.  
 PROJECTION: UTM ZONE 12 DATUM: NAD 83



PROJECT		DIAMOND MINES NORTHWEST TERRITORIES	
TITLE		<b>LOCATION OF COURAGEOUS LAKE, UNNAMED LAKE, AND MATTHEWS LAKE</b>	
PROJECT No. 1648005		SCALE AS SHOWN	REV. 0
DESIGN	TD	18 Nov. 2009	<b>FIGURE: 3-17</b>
GIS	VV	18 Apr. 2017	
CHECK	LJ	18 Apr. 2017	
REVIEW	GM	18 Apr. 2017	



PATH: I:\CLIENTS\DIAMONDS\Mappping\MXD\GCRP\_updates\Fig 3-18 Location of Contwoyto Lake.mxd PRINTED ON: 2017-04-18 AT: 3:40:39 PM

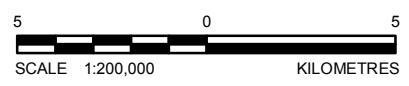


**LEGEND**

- ▲ LITTORAL COLLECTION SITE
- ☆ ORE BODY LOCATION
- PELAGIC COLLECTION SITE
- WATERCOURSE
- WATERBODY

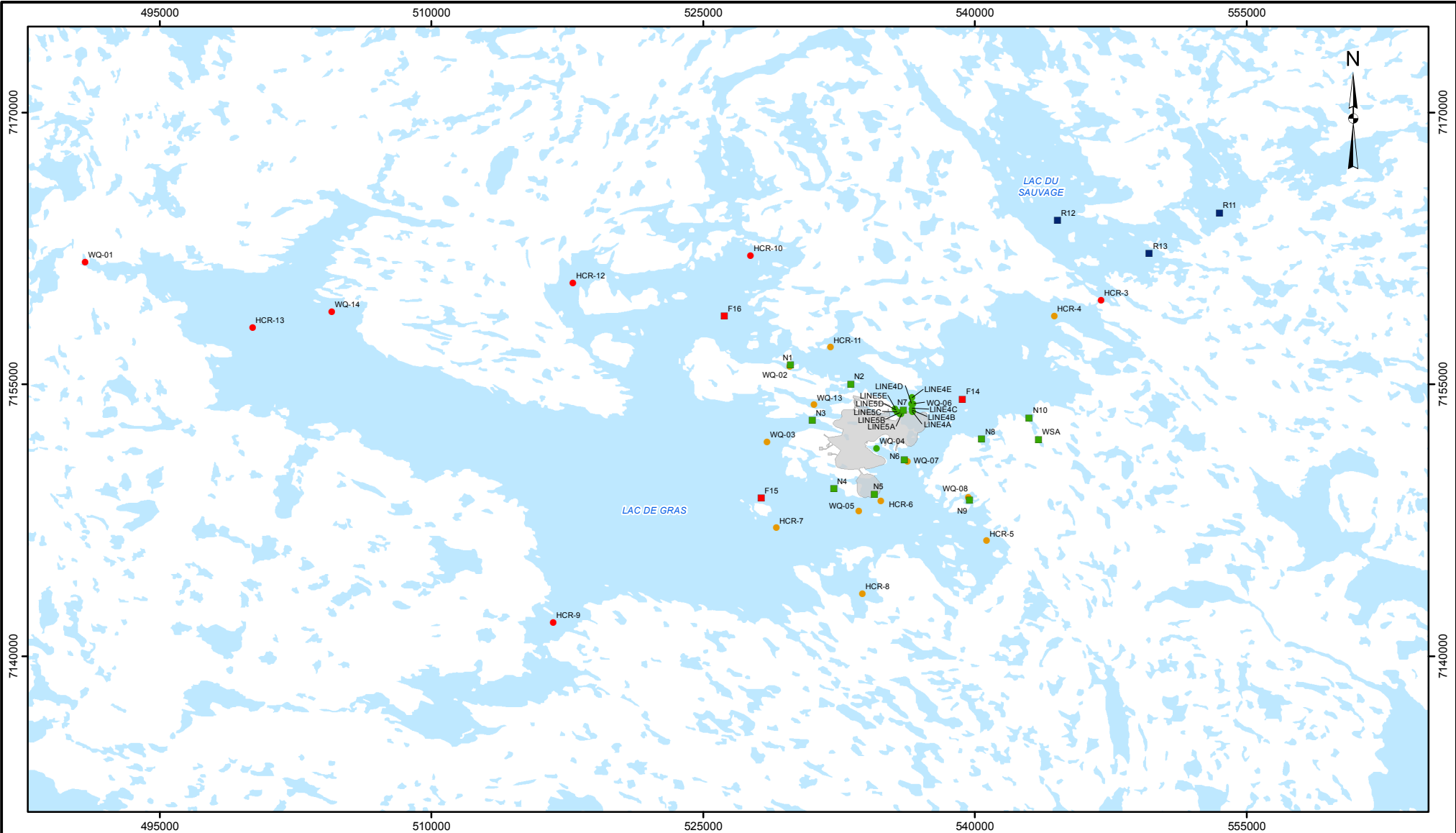
**REFERENCE**

FIGURE 2 MAP OF THE CONTWOYTO LAKE AREA SHOWING COLLECTION SITES, ENVIRONMENTAL PROTECTION SERVICE, NW-78-6; 1978. HYDROGRAPHY DATA OBTAINED FROM CANVEC © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. PROJECTION: UTM ZONE 12 DATUM: NAD 83



PROJECT		DIAMOND MINES NORTHWEST TERRITORIES	
TITLE		LOCATION OF CONTWOYTO LAKE	
PROJECT No. 1648005		SCALE AS SHOWN	REV. 0
DESIGN	TD	18 Nov. 2009	<b>FIGURE: 3-18</b>
GIS	VV	18 Apr. 2017	
CHECK	LJ	18 Apr. 2017	
REVIEW	GM	18 Apr. 2017	





**LEGEND**

**BENTHIC LOCATIONS (1996)**

- FAR FIELD
- NEAR FIELD
- REFERENCE AREA

**SEDIMENT QUALITY STATIONS (1996-2000)**

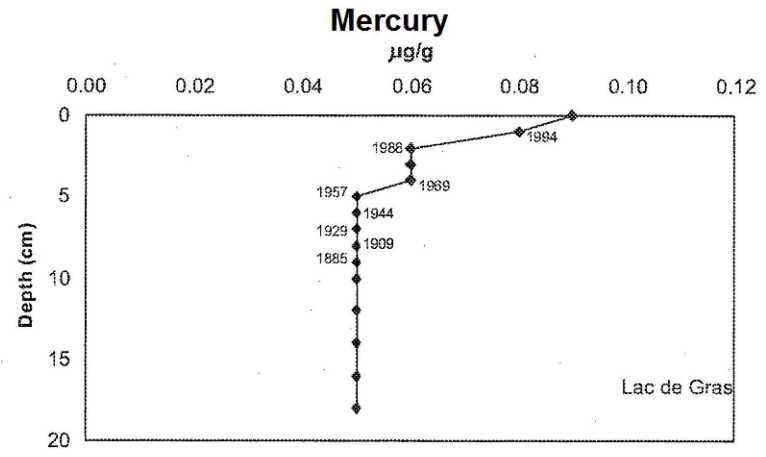
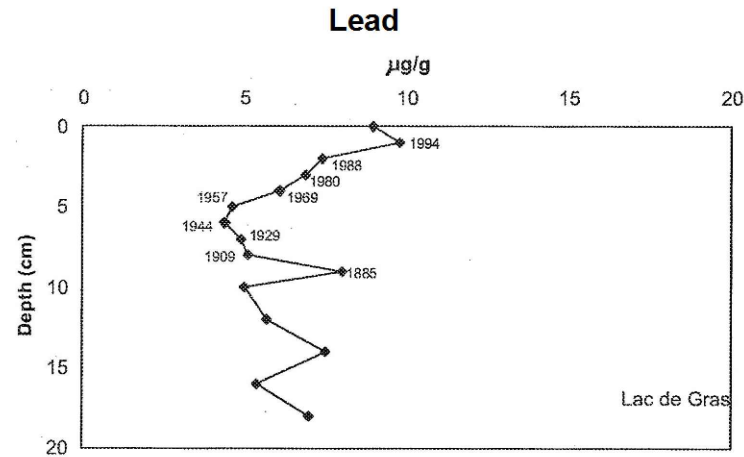
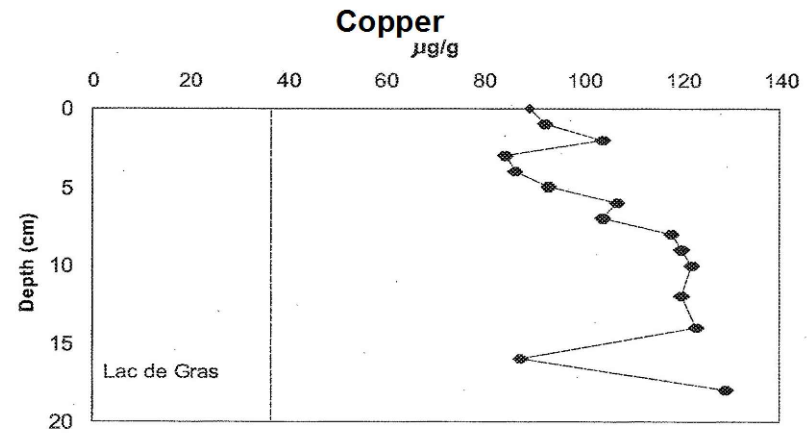
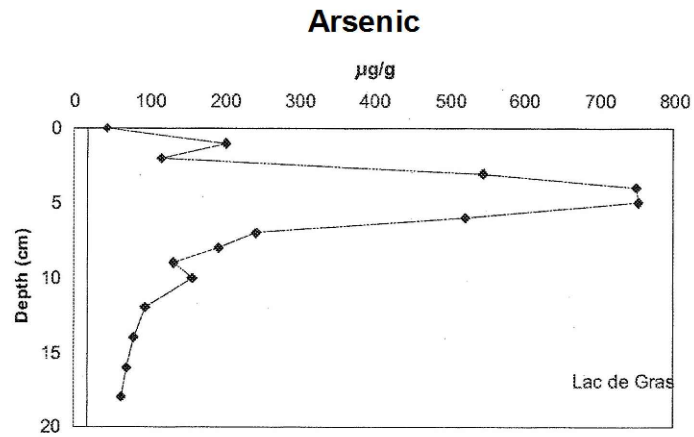
- FAR FIELD
- MID FIELD
- NEAR FIELD
- DIAVIK FOOTPRINT
- WATERBODY

**REFERENCE**

HYDROGRAPHY DATA OBTAINED FROM CANVEC © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.  
 PROJECTION: UTM ZONE 12 DATUM: NAD 83



PROJECT		DIAVIK DIAMOND MINES NORTHWEST TERRITORIES	
TITLE		<b>SEDIMENT SAMPLING SITES DURING THE BASELINE SURVEYS</b>	
	PROJECT NO.	09-1328-0021	SCALE AS SHOWN
	DESIGN	TD 18 Nov. 2009	REV. 0
	GIS	VV 13 Jan. 2017	<b>FIGURE: 3-19</b>
	CHECK	LJ 18 Apr. 2017	
REVIEW	GM 18 Apr. 2017		

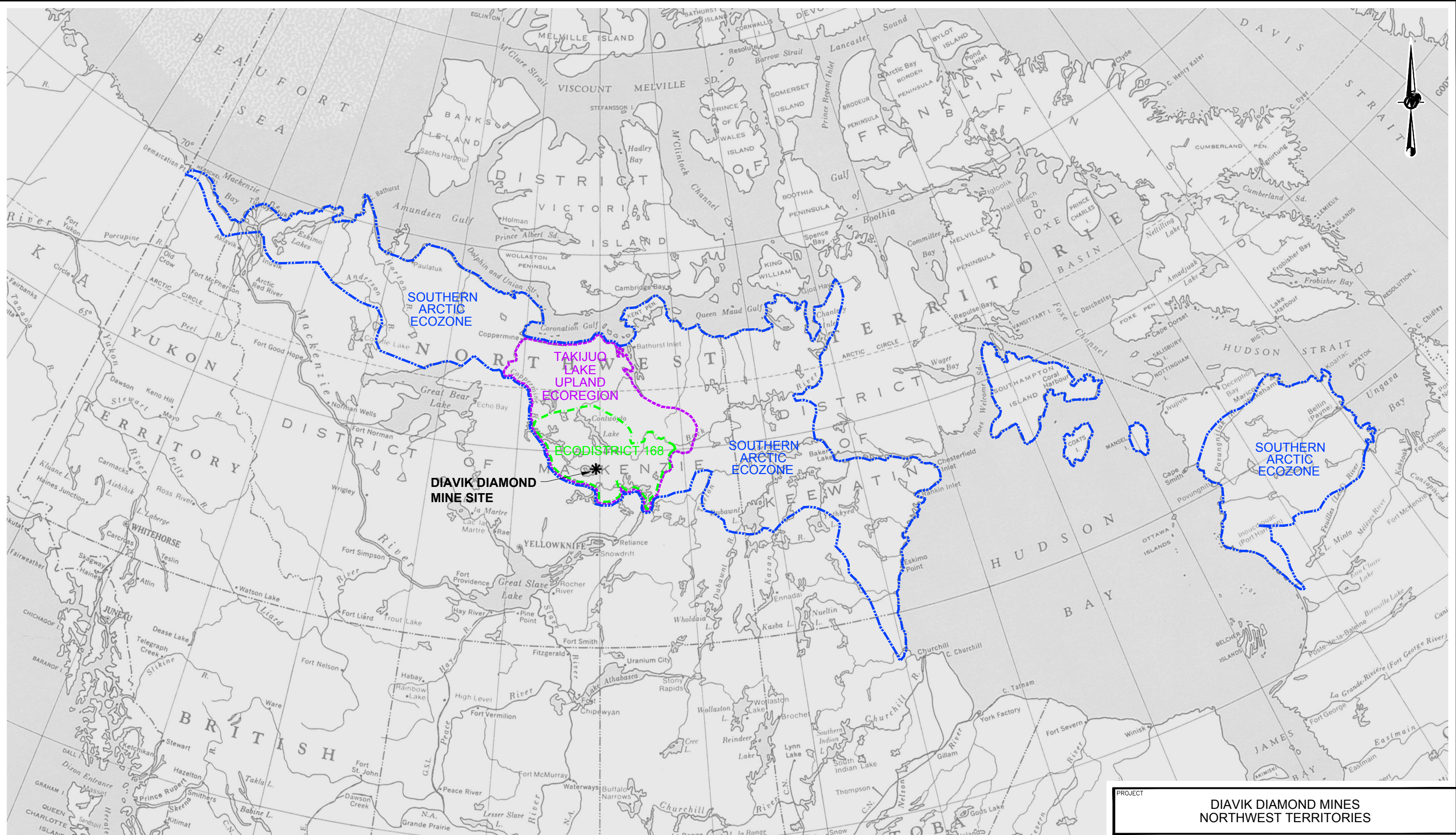


**REFERENCE**

DATA OBTAINED FROM PERAMAKI AND STONE (2005)

PROJECT				
DIAVIK DIAMOND MINES NORTHWEST TERRITORIES				
TITLE				
<b>CONCENTRATIONS OF TRACE METALS IN SEDIMENTS FROM LAC DE GRAS, 2000</b>				
PROJECT		1648005	FILE No. 11000-GC-0033	
DESIGN	TD	26/11/09	SCALE AS SHOWN	REV. 0
CADD	RFM	12/01/17	<b>FIGURE: 3-20</b>	
CHECK	LJ	18/04/17		
REVIEW	GM	18/04/17		

**DIAVIK**  
 DIAMOND MINES INC.



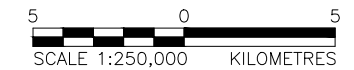
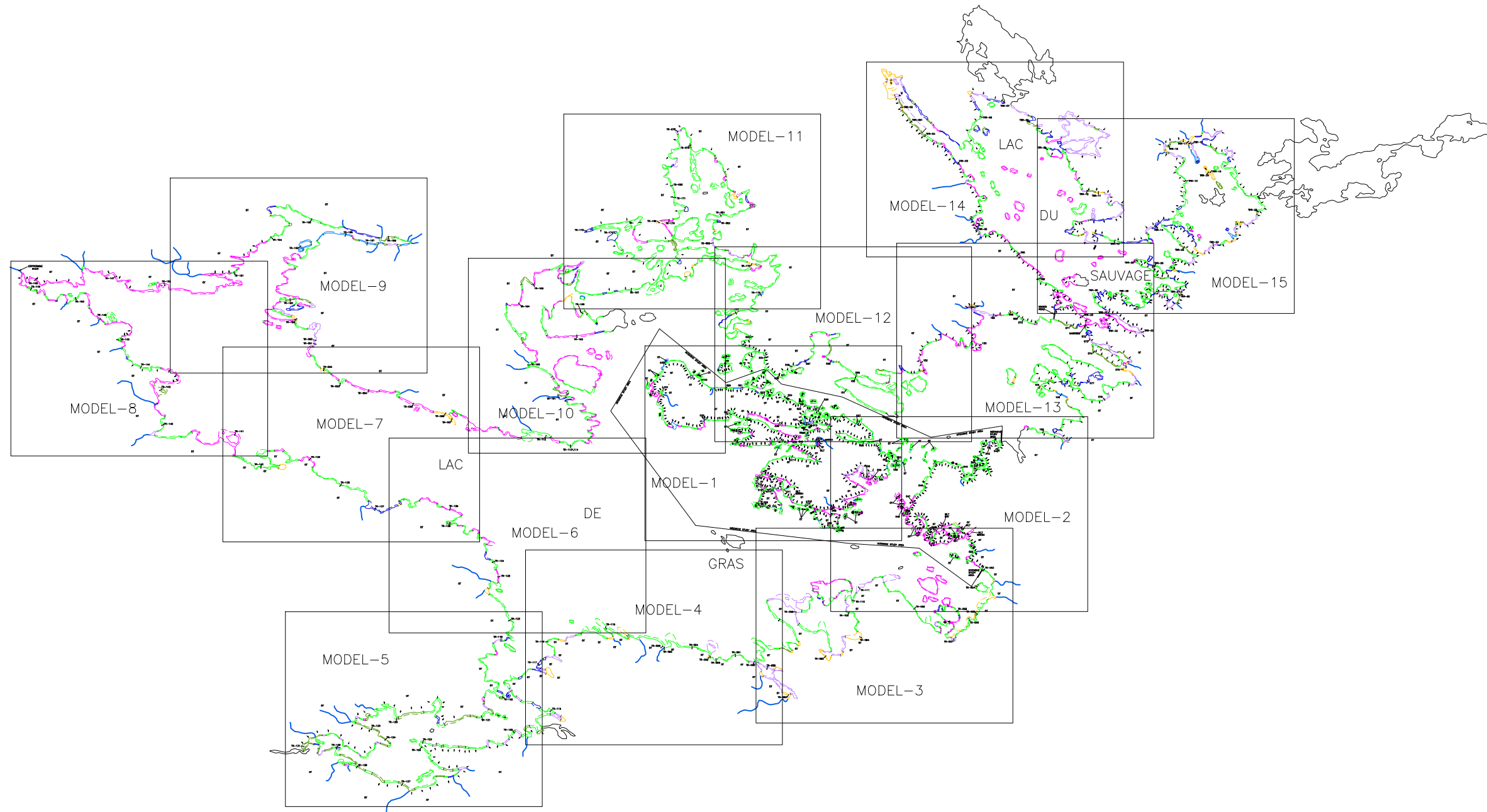
- LEGEND**
- - - - - SOUTHERN ARCTIC ECOZONE
  - - - - - TAKIJUQ LAKE UPLAND ECOREGION
  - - - - - ECODISTRICT 168

**REFERENCE**  
 MAP OF CANADA, 1970 DEPARTMENT OF ENERGY, MINES, AND RESOURCES

<b>PROJECT</b>		<b>DIAVIK DIAMOND MINES NORTHWEST TERRITORIES</b>	
<b>ECOZONES</b>			
<b>PROJECT</b>		<b>FILE No.</b>	
DESIGN	TD	1648005	11000-GC-0035
CADD	RFM	04/11/09	SCALE AS SHOWN
CHECK	LJ	12/01/17	REV. 0
REVIEW	GM	18/04/17	

**FIGURE: 3-21**

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**LEGEND HABITAT TYPES**

- |  |  |  |
|--|--|--|
| <p>1. BOULDER LEDGE AT SHORELINE; DROP-COMPOSED OF BOULDERS LEADING INTO SAND AND BOULDER PATCHES.</p> <p>2. GRAVEL LEDGE AT SHORELINE, SHIFTING TO COBBLE THEN BOULDERS. DROP-OFF COMPOSED OF BOULDERS LEADING TO MIXED SAND AND BOULDERS.</p> <p>3. BEDROCK OUTCROPS SURROUNDED BY BOULDER AND COBBLE LEADING TO A MIXTURE OF LARGE BOULDERS AND SAND.</p> | <p>4. MIXTURE OF BOULDERS AND SAND.</p> <p>4a: BOULDERS DOMINANT OVER SAND.</p> <p>4b: SAND DOMINANT OVER BOULDERS.</p> <p>5. MIXTURE OF BOULDER, COBBLE AND GRAVEL. ELEVATED GRAVEL MOUNDS ALTERNATE THROUGH THE OTHER SUBSTRATES IN A LINEAR, WINDING FASHION.</p> <p>INUNDATED VEGETATION.</p> <p>SAND.</p> | <p>● PARTLY SUBMERGED BOULDER</p> <p>TR-026 } TRANSECT AND IDENTIFICATION</p> <p>→ SHALLOW SLOPE</p> <p>→ MODERATE REPOSE</p> <p>→ STEEP REPOSE</p> <p>→ STEEP SLOPE</p> <p>OT OPEN TUNDRA</p> |
|--|--|--|

**NOTES:**

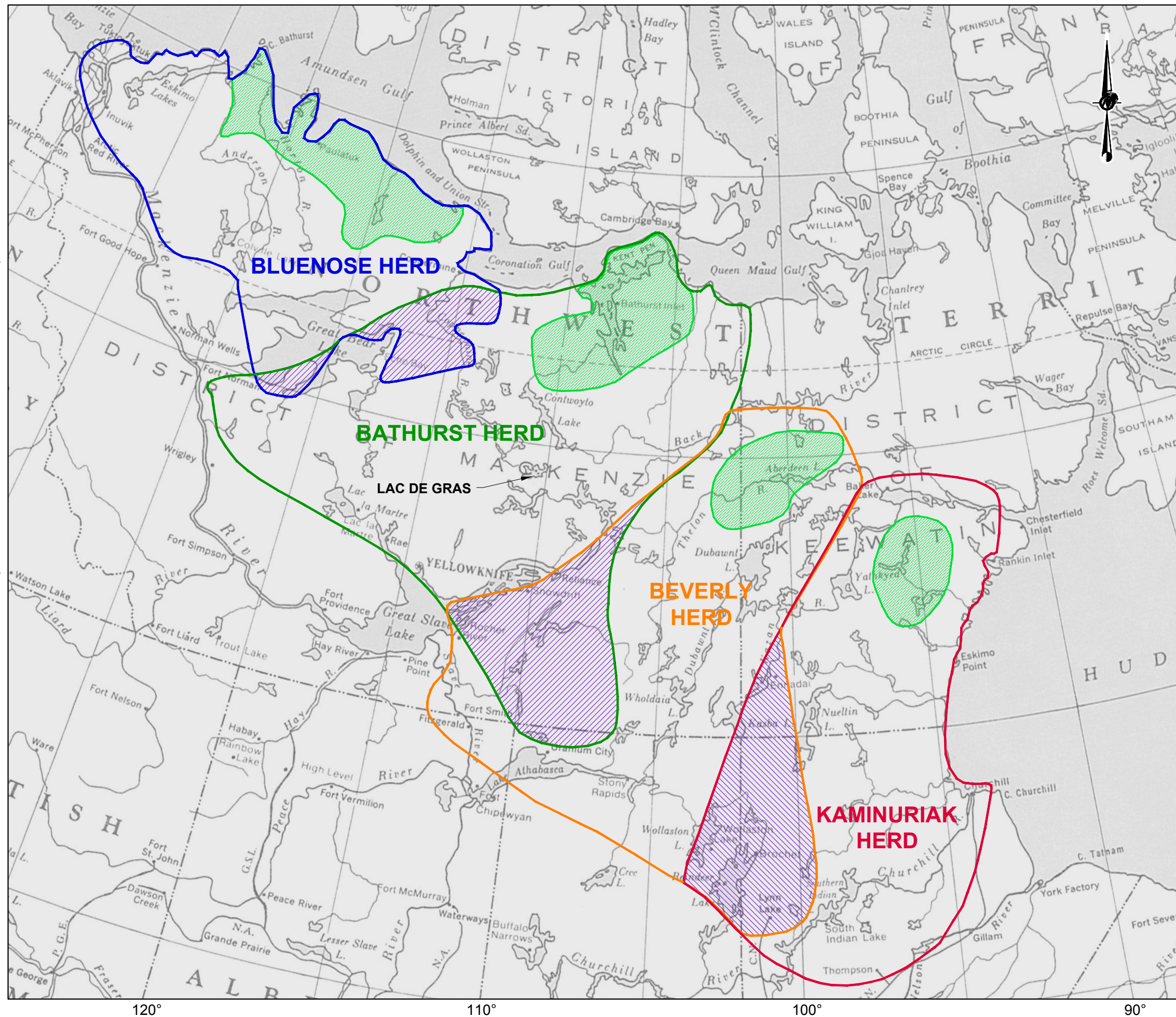
1. NAD-83 DATUM  
SOURCE: GOLDER ASSOCIATES LTD. 1997 n.o

PROJECT		DIAVIK DIAMOND MINES NORTHWEST TERRITORIES	
TITLE		LAC DE GRAS SHORELINE HABITAT KEY MAP	
PROJECT	1648005	FILE No.	11000-GC-0036
DESIGN	TD	04/11/09	SCALE AS SHOWN
CADD	RFM	12/01/17	REV. 0
CHECK	LJ	18/04/17	<b>FIGURE: 3-22</b>
REVIEW	GM	18/04/17	





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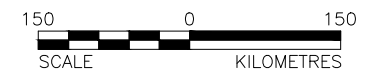


**LEGEND**

- CALVING GROUND
- WINTER RANGE OVERLAP

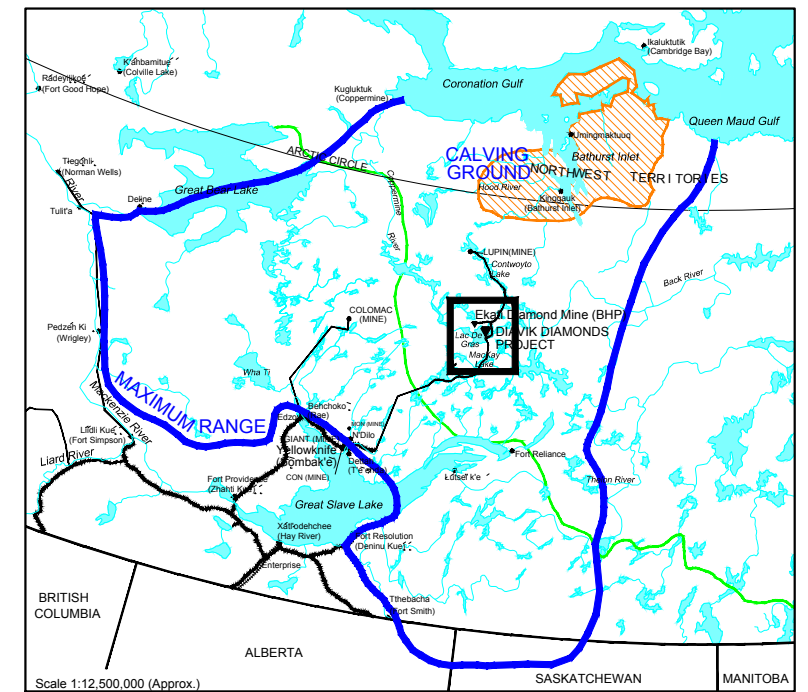
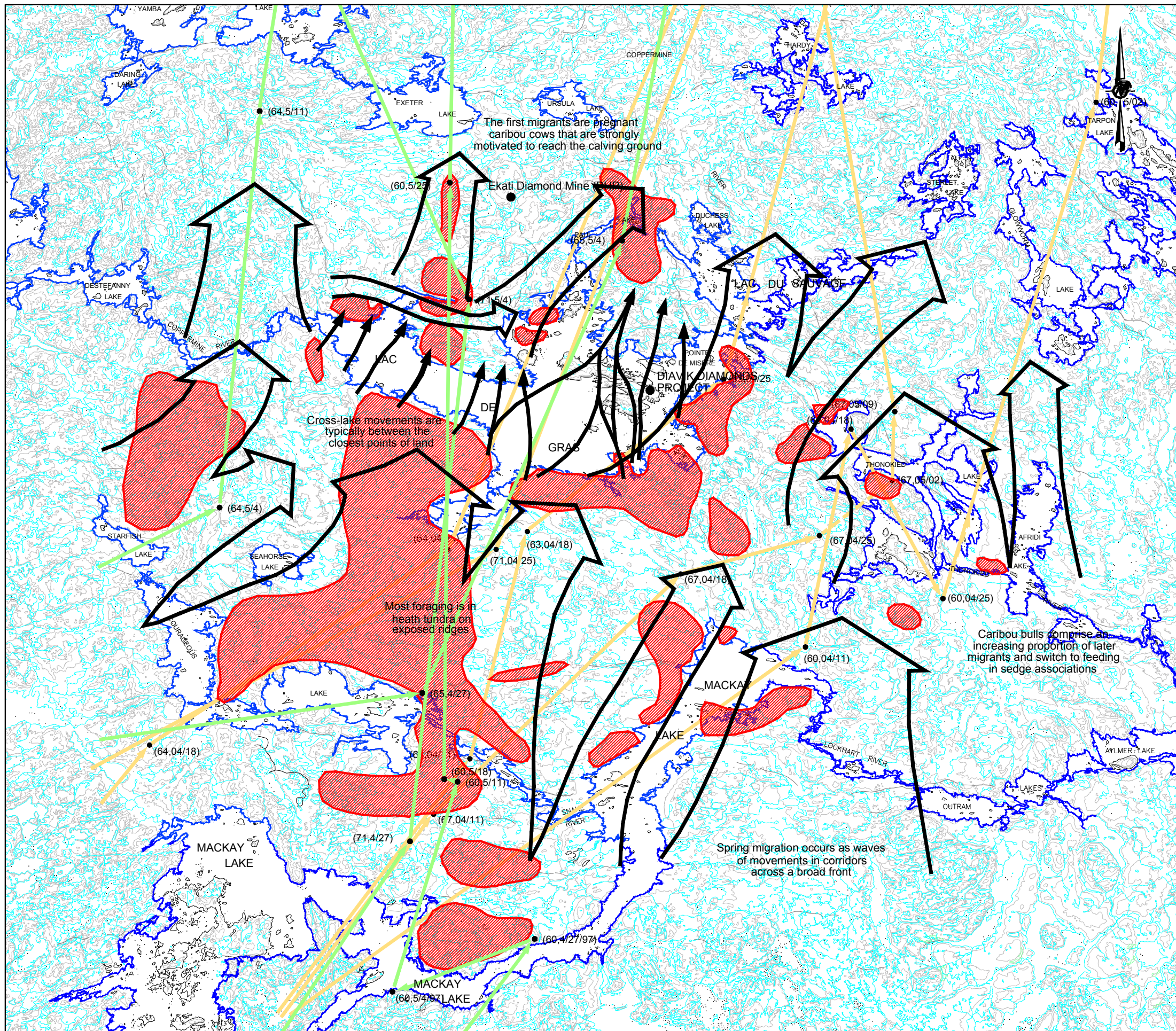
**REFERENCE**

MAP OF CANADA, 1970 DEPARTMENT OF ENERGY, MINES, AND RESOURCES, USED WITH PERMISSION.



PROJECT		DIAVIK DIAMOND MINES NORTHWEST TERRITORIES	
TITLE		<b>CARIBOU ANNUAL RANGES</b>	
PROJECT	1648005	FILE No.	11000-GC-0037
DESIGN	TD	04/11/09	SCALE AS SHOWN REV. 0
CADD	RFM	12/01/17	
CHECK	LJ	18/04/17	FIGURE: 3-23
REVIEW	GM	18/04/17	





The caribou movement maps and the regional study area encompass a small portion of the Bathurst caribou range.

**LEGEND**

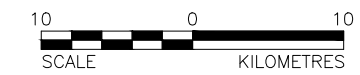
- CONCENTRATED FEEDING AREA
- BROAD CORRIDOR
- NARROW TRAVEL ROUTES
- SATELLITE COLLARED COW: 1996  
NUMBER, MONTH, DAY AND DIRECT LINE MOVEMENTS
- SATELLITE COLLARED COW: 1997  
NUMBER, MONTH, DAY AND DIRECT LINE MOVEMENTS

**NOTES**

NATIONAL TOPOGRAPHICAL DATA BASE SETS 76C, 76D, 75M, AND 75N FROM GEOMATICS CANADA

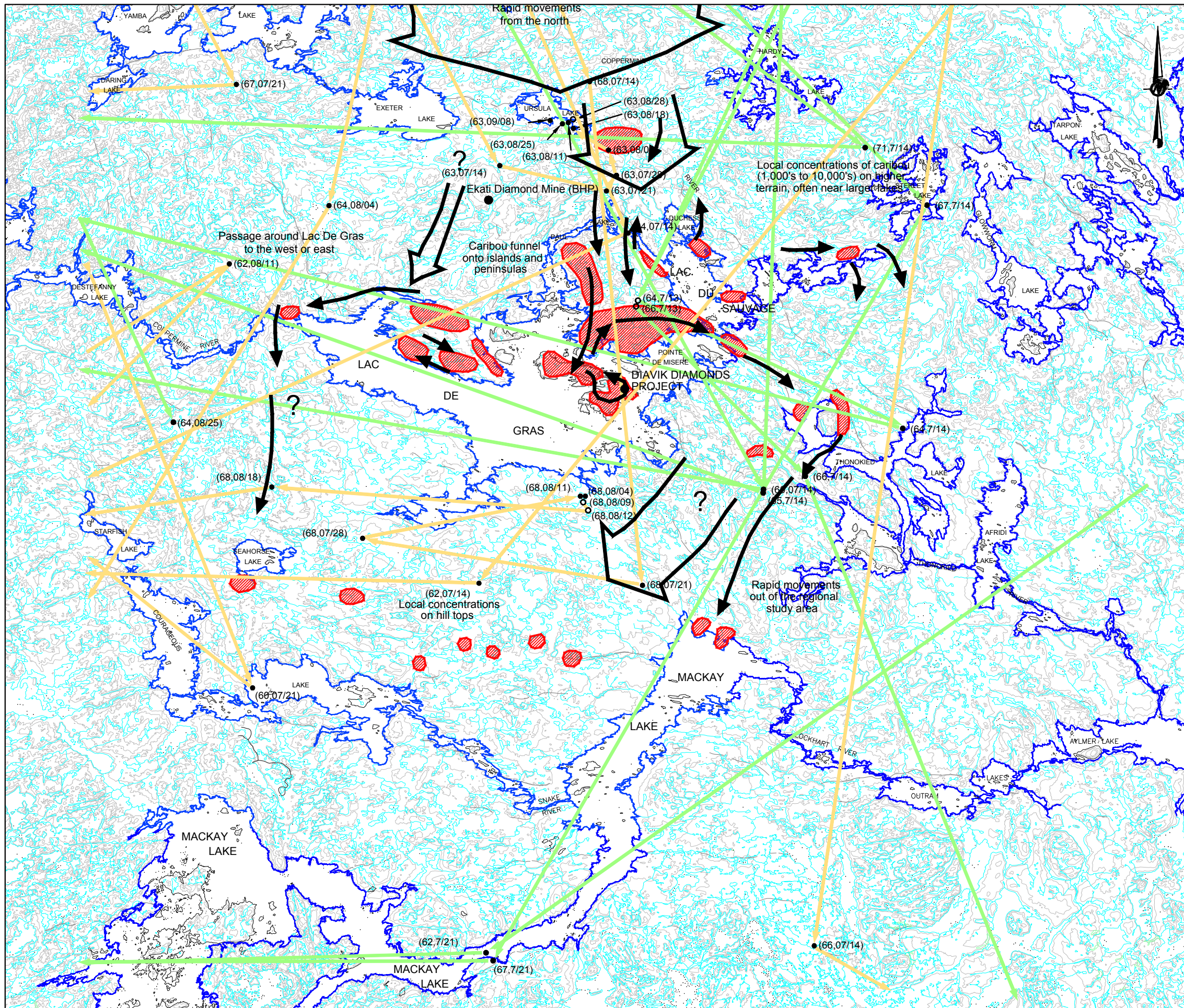
**REFERENCE**








ESTIMATED PASSAGE 1996: 100,000 CARIBOU  
ESTIMATED PASSAGE 1997: 70,000 CARIBOU



PROJECT		DIAMOND MINES INC.	
TITLE		NORTHWEST TERRITORIES	
PROJECT		1648005	
FILE No.		11000-GC-0038	
DESIGN	TD	04/11/09	SCALE AS SHOWN
CADD	RFM	12/01/17	REV. 0
CHECK	LJ	18/04/17	<b>FIGURE: 3-24</b>
REVIEW	GM	18/04/17	

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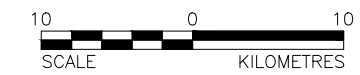
-  CONCENTRATED FEEDING AREA
-  BROAD CORRIDOR
-  NARROW TRAVEL ROUTES
-  SATELLITE LOCATIONS
-  VHF LOCATIONS
-  SATELLITE COLLARED COW: 1996 NUMBER, MONTH, DAY AND DIRECT LINE MOVEMENTS
-  SATELLITE COLLARED COW: 1997 NUMBER, MONTH, DAY AND DIRECT LINE MOVEMENTS


**NOTES**

ESTIMATED PASSAGE 1996: 26,000 CARIBOU  
 ESTIMATED PASSAGE 1997: 80,000 CARIBOU

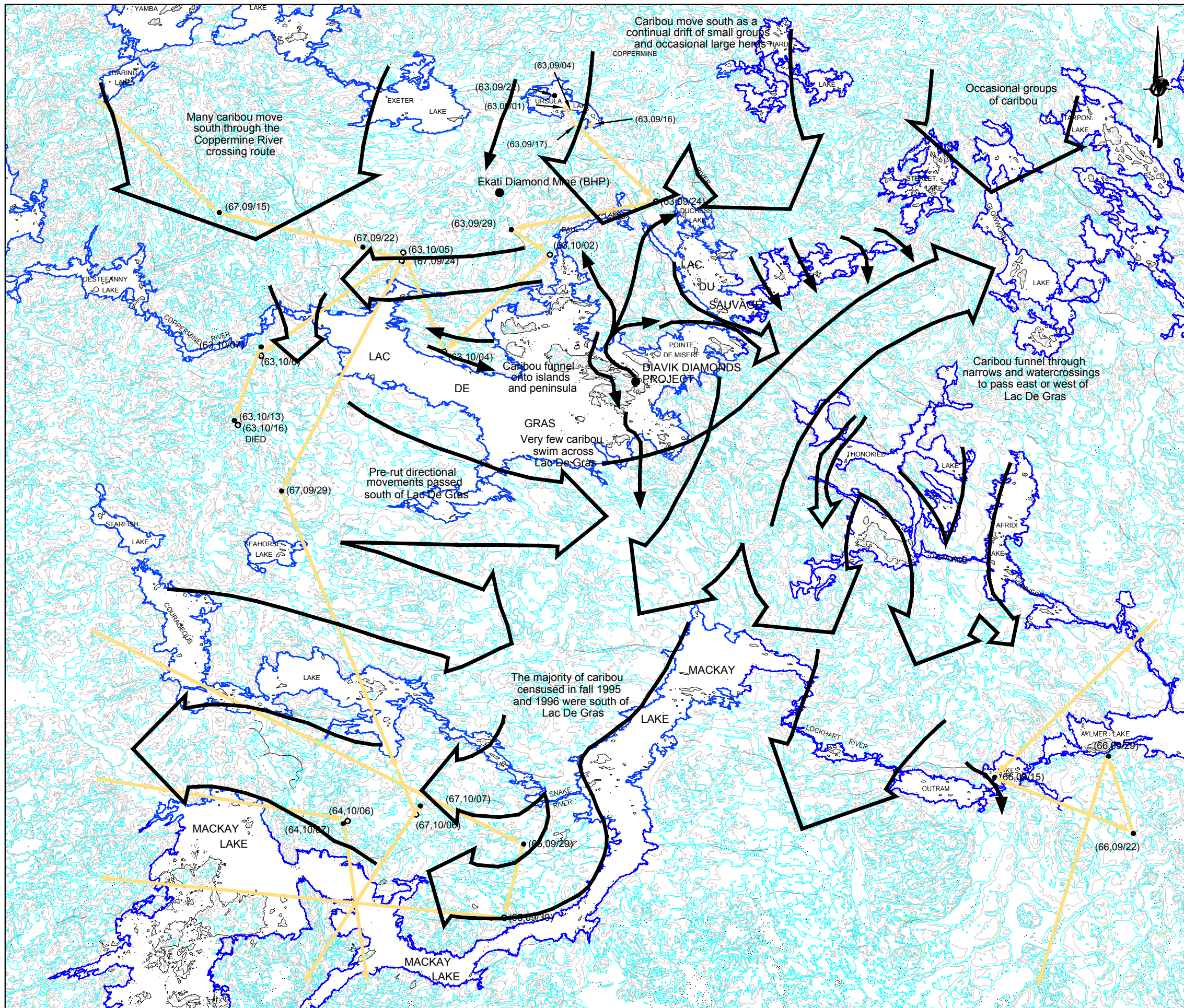
**REFERENCE**

NATIONAL TOPOGRAPHICAL DATA BASE SETS 76C, 76D, 75M, AND 75N FROM GEOMATICS CANADA



PROJECT		DIAVIK DIAMOND MINES NORTHWEST TERRITORIES	
TITLE		<b>CARIBOU MID-SUMMER RETURN MOVEMENTS JULY 12 TO 30: 1996 AND 1997 SURVEYS</b>	
	PROJECT	1648005	FILE No. 11000-GC-0039
	DESIGN	TD	04/11/09
	CADD	RFM	12/01/17
	CHECK	LJ	18/04/17
REVIEW	GM	18/04/17	SCALE AS SHOWN
			REV. 0
			FIGURE: 3-25

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**LEGEND**

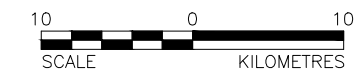
- BROAD CORRIDOR
- NARROW TRAVEL ROUTES
- SATELLITE LOCATIONS
- VHF LOCATIONS
- SATELLITE COLLARED COW: 1996 NUMBER, MONTH, DAY AND DIRECT LINE MOVEMENTS

**NOTES**

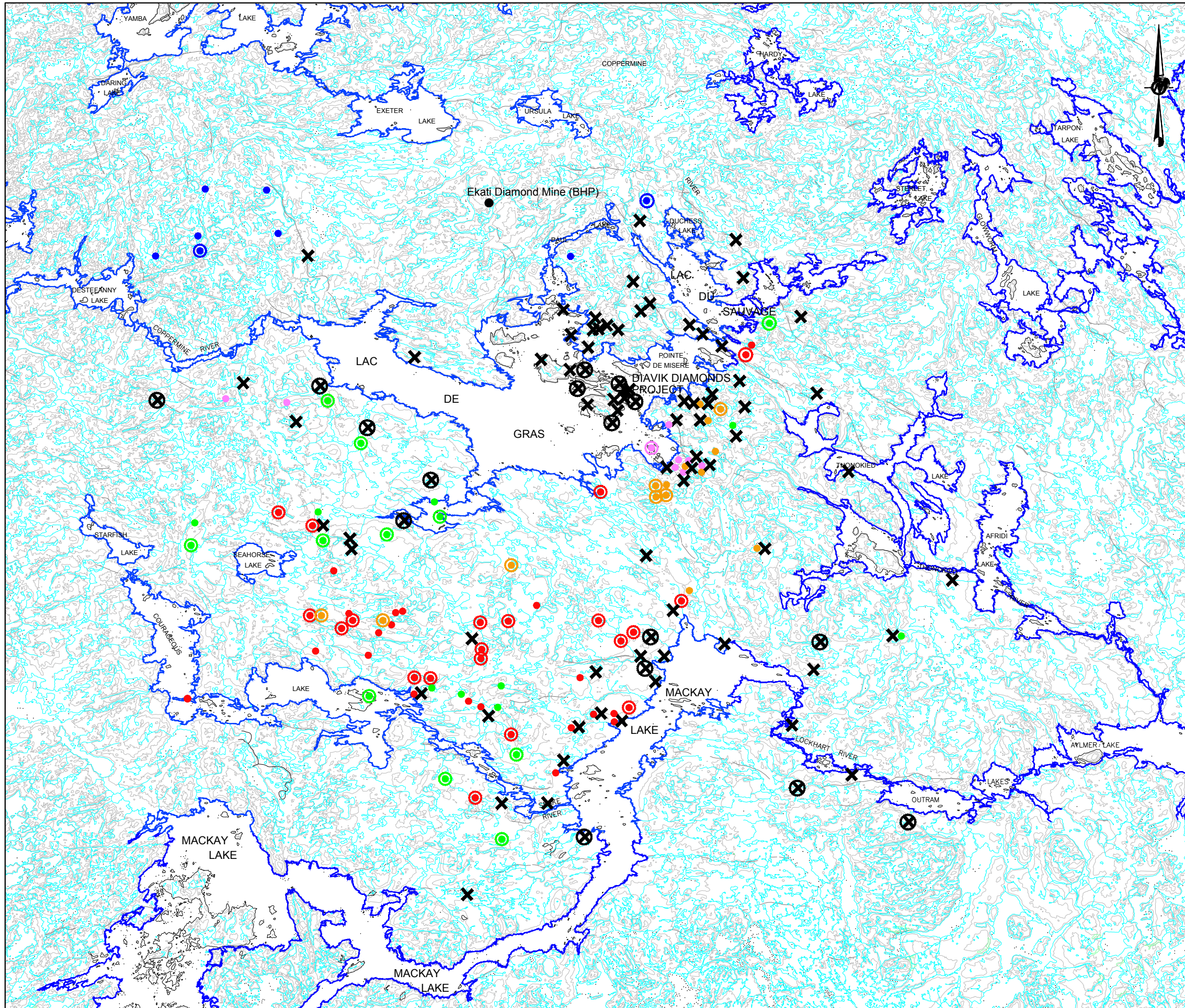
ESTIMATED PASSAGE 1995: 100,000 CARIBOU  
 ESTIMATED PASSAGE 1996: 90,000 CARIBOU

**REFERENCE**

NATIONAL TOPOGRAPHICAL DATA BASE SETS 76C AND 76D, FIRST EDITION SOURCE: GOLDIER ASSOCIATES LTD. 1997a PENNER AND ASSOCIATES LTD.



PROJECT		DIAVIK DIAMOND MINES NORTHWEST TERRITORIES	
TITLE		<b>CARIBOU FALL MOVEMENTS SEPTEMBER 15 TO OCTOBER 15: 1995 AND 1996 SURVEYS</b>	
	PROJECT	1648005	FILE No. 11000-GC-0040
	DESIGN	TD	04/11/09 SCALE AS SHOWN REV. 0
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	CHECK	LJ	18/04/17
REVIEW	GM	18/04/17	<b>FIGURE: 3-26</b>



**LEGEND**

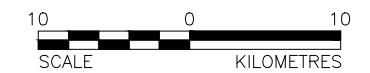
- SASHA - G639
- BOSS - G637
- CHRISSY - G652
- JEFF - G661
- JOSEPH - G636
- X** UNKNOWN BEAR AND COLLARED BEARS WITH <5 LOCATIONS \*
- SITES OF HABITAT USE ASSESSMENT

**NOTES**

\* THE CONCENTRATION OF GRIZZLY BEAR LOCATIONS ON THE EAST ISLAND AND LOCAL STUDY AREA IS DUE TO OPPORTUNISTIC SIGHTINGS IN THE AREA OF MORE INTENSIVE WILDLIFE SURVEY COVERAGE.

**REFERENCE**

NATIONAL TOPOGRAPHICAL DATA BASE SETS 76C, 76D, 75M, AND 75N  
FROM GEOMATICS CANADA  
SOURCE: PENNER AND ASSOCIATES



<b>PROJECT</b>	<b>DIAVIK DIAMOND MINES NORTHWEST TERRITORIES</b>		
<b>TITLE</b>	<b>GRIZZLY BEAR LOCATIONS AND HABITAT USE ASSESSMENTS</b>		
	PROJECT	1648005	FILE No. 11000-GC-0041
	DESIGN	TD	04/11/09
	CADD	RFM	12/01/17
	CHECK	LJ	18/04/17
	REVIEW	GM	18/04/17
			SCALE AS SHOWN REV. 0
			FIGURE: 3-27