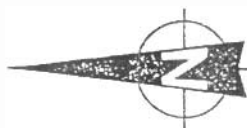


14000E

12000E

10 000E

4 000N



Geochem sample point

Cathod sample point

Assay in ppm : Pb, Zn, Cu.

Sphalerite

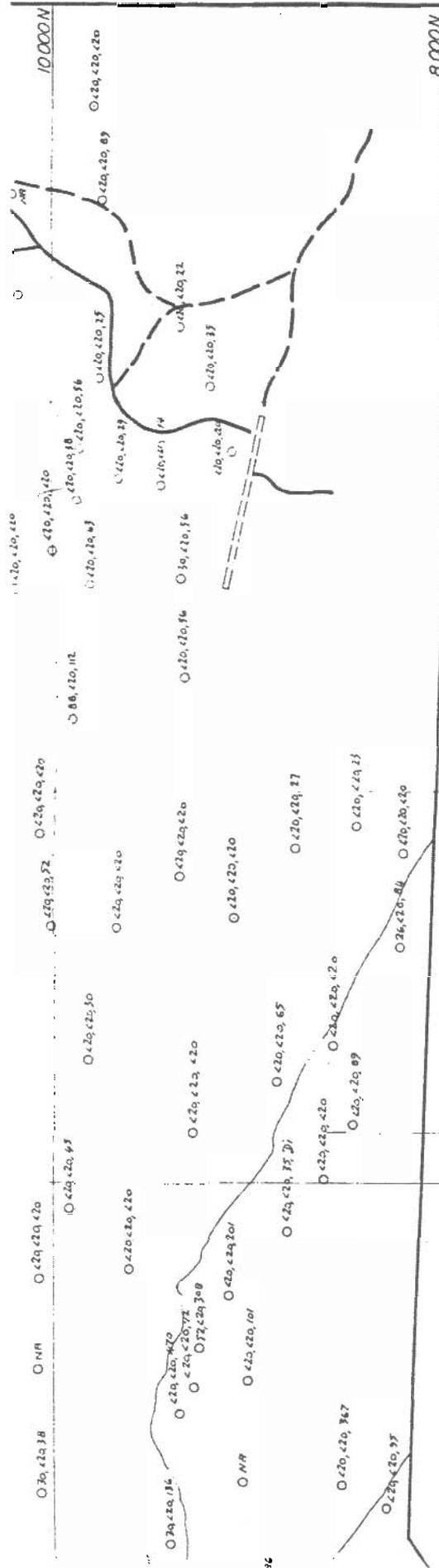
Gossan

Pyrite

Diabase (dyke)

Contamination

REV	DATE	SIGN	DESCRIPTION
NANISIVIK MINES LIMITED NANISIVIK, NORTHWEST TERRITORIES			
TITLE NANISIVIK MINE PROPERTY GEOCHEMICAL SURVEY WEST SHEET			
SCALE 0 1:20 000 1000m			
DATE FEB 1986		DRAWING No	
DESIGNED		DRAWN E S	





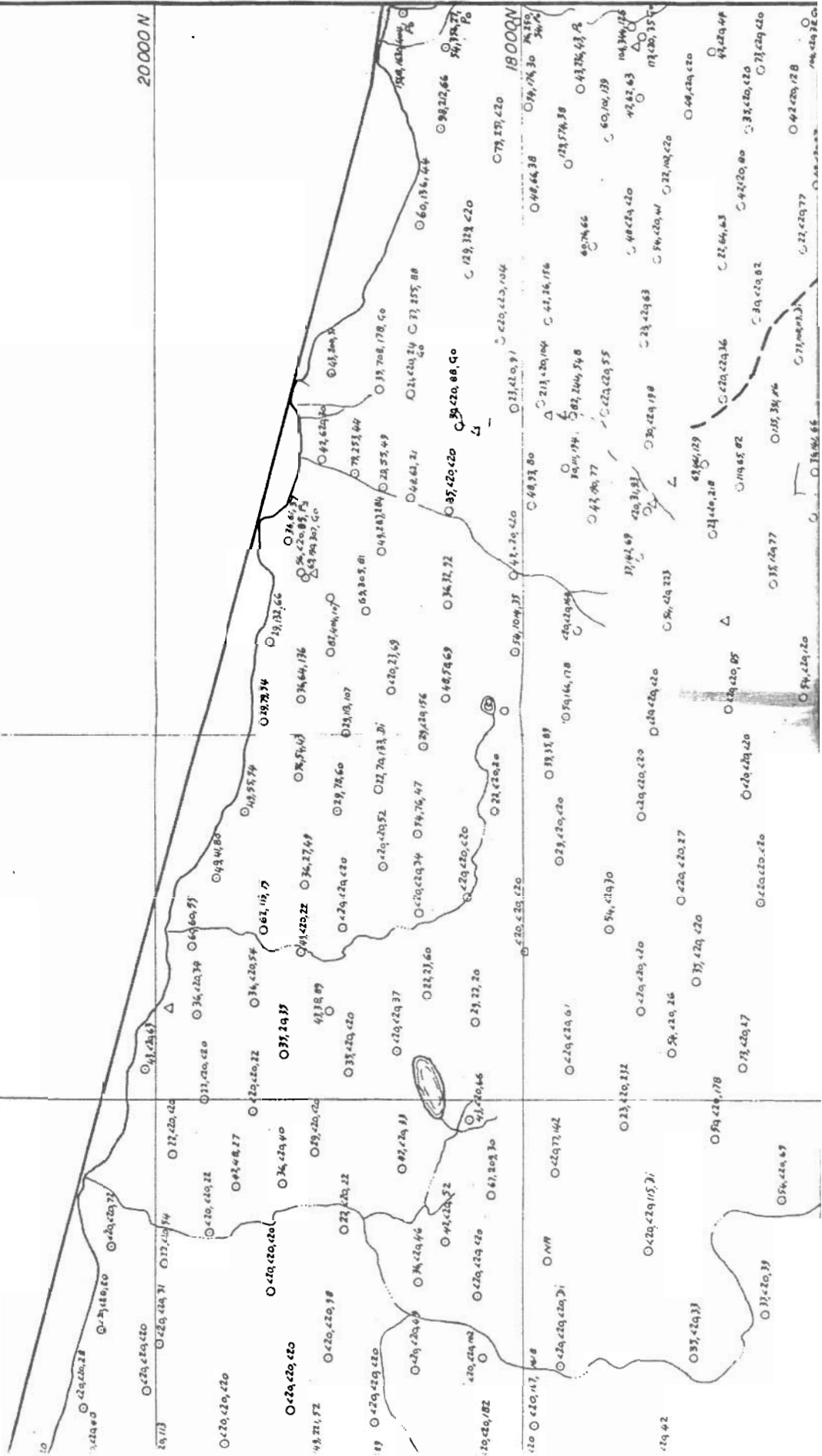
14 000E

12 000E

10 000E

20 000 N

18 000 N



8 000 E

6 000 E

4 000 E

2 000 E

4 000 N

0

Δ

0 1/4 1/2

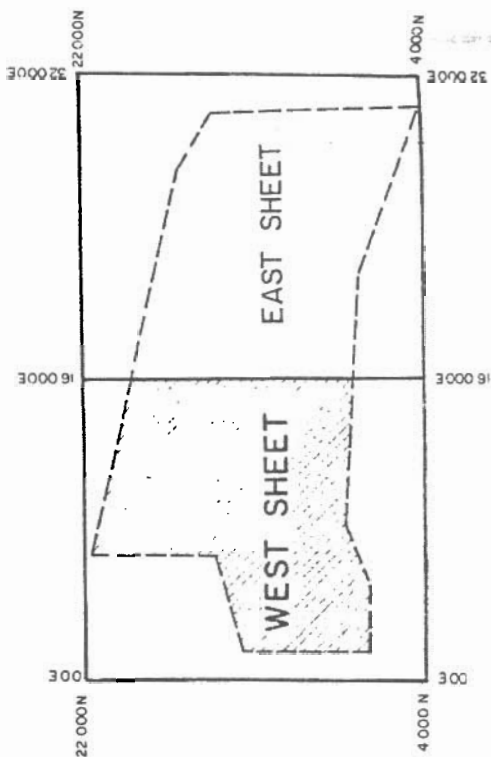
5/

60

1/4

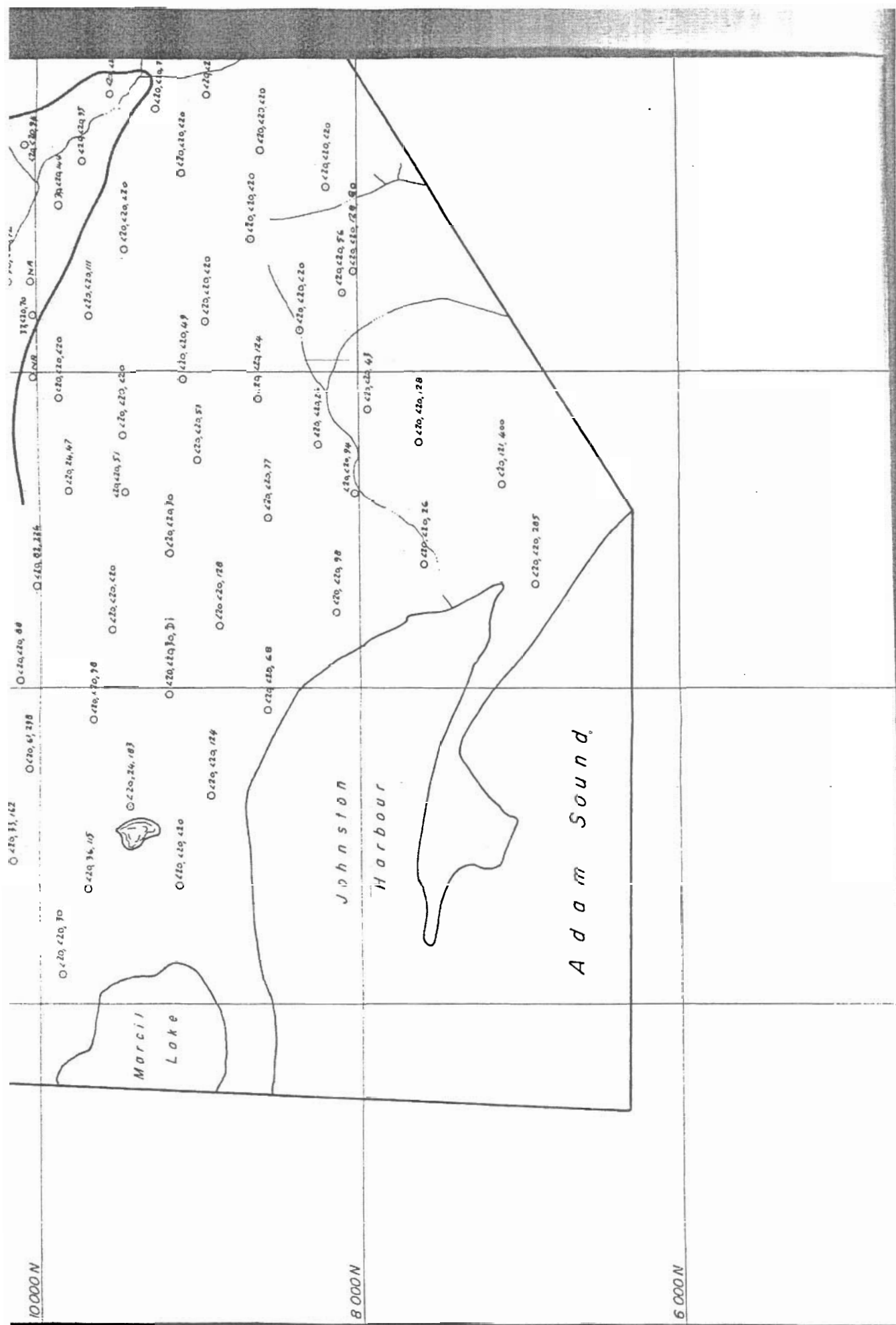
2/

1/2

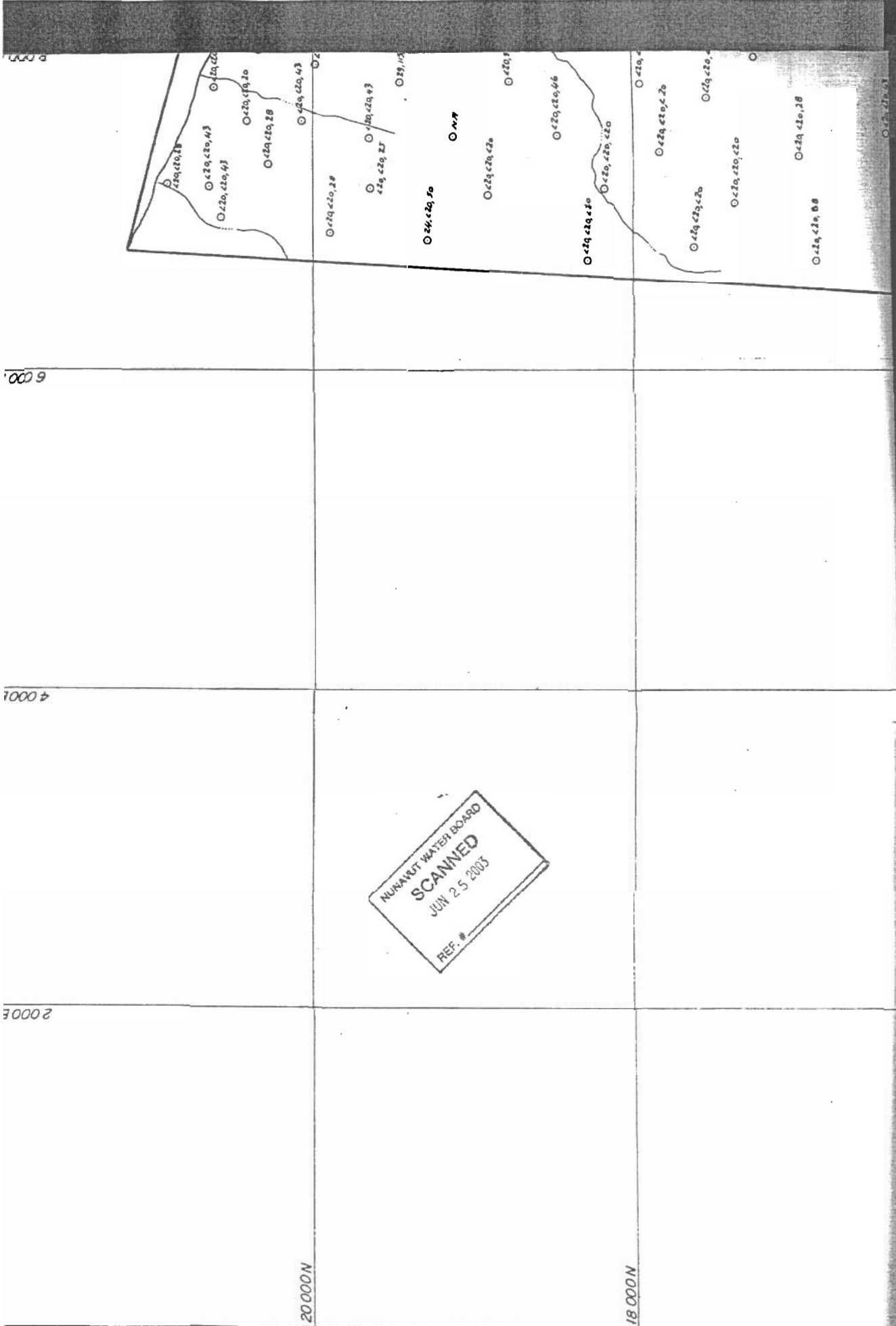


INDEX MAP

1:250 000



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NUNAVUT WATER BOARD
SCANNED
JUN 25 2003
REF. #



BREAKWATER RESOURCES LIMITED

95 Wellington Street West, Suite 2000, Toronto ON M5J 2N7

Fax: (416) 363-1315

Telephone: (416) 363-4798 (ext 271)

bcarreau@breakwater.ca

via Email

June 27, 2003

Mr. Philippe di Pizzo
Executive Director
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0E-1J0

Dear Mr. di Pizzo:

Re: Response to Government of Nunavut's comments (June 19, 2003) on Nanisivik ESA II and HHERA

On June 19, 2003, the Nunavut Water Board ("NWB") received comments from the Government of Nunavut ("GN") on: *Human Health and Ecological Risk Assessment Nanisivik Mine*. Subsequently, the NWB requested CanZinco provide a response by June 27, 2003. Please accept this letter as CanZinco's response.

Upon reviewing the attachments provided with the GN's submission, we were discouraged to see that the GN's consultant's review (Zelt/Toxcon) was limited to the original ESA and HHERA submissions by CanZinco dated January 2003. As part of the NWB's review process, CanZinco has made supplementary, and substantial, submissions since the original reports were filed, to clarify, correct and incorporate comments made by all reviewers and their technical advisors. Without the advantage of this supplementary information, the Zelt/Toxcon review is not current and, we believe, moves the well-advanced approval process several steps in retrograde. We would also add that this situation has occurred despite a reasonable request by CanZinco on May 22nd directly to the GN, to ensure that their consultants were circulated current information.

The Zelt/Toxcon document contains the following statement: "[We] recognize that the science of risk assessment is quite diverse. Thus, we acknowledge from the outset that the manner in which two risk assessors approach a contaminated site will vary." The NWB's approval process for the HHERA and ESA has included consideration of written submissions from several peer reviewers including: BC Research, EBA Engineering Consultants Limited, Dillon Consulting Limited, AMEC Earth & Environmental Limited and Acres International Limited. (These submissions were of course supplemental to submissions by the various stakeholder agencies: GN, INAC, NTI, and EC.) It has generally been acknowledged by the peer reviewers that the Nanisivik ESA and HHERA processes were conducted properly and in accordance with standard and accepted practices. Given the number of reviewers this process has had to date, we believe the inclusion of a review which has not had the benefit of participating in the iterative process or at least being current with modifications/improvements, brings little value to the process.

Respectfully then, we will not respond directly to the comments made in the Zelt/Toxcon report but will target our response to address the two issues raised by the GN in their covering letter of June 19th. The GN issues are presented below in *italics* and our comments follow.

1. *The HHERA, proposed SQRO's and relevant portions of the Phase 2 ESA should be treated as a first iteration only, requiring further dialogue and revision in accordance with the Review Report, before NWB approval is given.*

The GN has extrapolated this comment from statements made in the Zelt/Toxcon report. The report states: "*A risk based assessment is an iterative process, whereby successive levels of data, analysis and risk characterization are applied. The CCME guidelines reflect this iterative approach.*" We are in agreement with this statement and in following the CCME guidelines, which our consultants have done (and has been recognized by other reviewers), the Nanisivik risk assessment has appropriately adapted the iterative approach.

Without the benefit of having reviewed two supplementary submissions to the NWB by JWEL (May 16, 46 pp. and June 16, 33 pp.) on the HHERA, the GN's consultant would not be aware of several iterative steps which have occurred. In consideration of all developmental steps that the risk assessment has taken since September 2002, we are expecting that the NWB will recognize that the study has proceeded correctly.

2. *Wider soil sampling to establish reliable background data be ordered, and performed by the Mine as soon as feasible, and that upcoming Technical meetings or teleconferences should include the discussion in advance of the proposed control site, included metals, and other aspects of sampling program that the Mine proposes to use to obtain this needed background data.*

Despite efforts in CanZinco's June 16th submission, it appears as though this issue was not addressed to the satisfaction of the GN. In that submission, GLL provided substantiating information to support the inclusion of the 1985 background data. Further, JWEL provided information to explain how the data does not detract from the determination of the SQRO's. Finally, CanZinco made a commitment to obtain "wider soil sampling" data and procedural information from the archives held by the former operator of the mine (Strathcona Mineral Services). We have obtained this information, and expect that it has arrived in the Gjoa Haven office this past week. The information includes soil sampling data from an area of 336 km² around the mine property. We are hopeful that this information will be sufficiently "wide" to address that aspect of the GN's comment. The data is also accompanied by a letter of affirmation from Mr. Doug Dumka (P. Geol.), who managed the 1985 soil sampling campaign and attests to the integrity of the reported data.

In closing, we would like to reiterate that we have considered all input brought forward by all reviewers as part of the approval process. We have attempted to address all comments, have directly incorporated many of these, and believe the reports have ultimately been improved. We look forward to receiving your approval on this stage of the reclamation process and to moving forward with the closure project. As always, should you or any of the reviewers wish to discuss this or other matters relating to the Nanisivik closure, please feel free to contact me directly at 416-363-4798.

Yours sincerely,
Original signed by:

Robert Carreau
Corporate Manager, Environmental Affairs
Breakwater Resources Ltd.

cc. Bill Heath, Vice-President CanZinco Ltd.



P.O. Box 119
GJOA HAVEN, NU X0B 1J0
TEL: (867) 360-6338
FAX: (867) 360-6369

kNK5 wmoEp5 vtmpq
NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI

File: NWB1NAN0208/G13

August 22, 2003

By Email

Mr. Robert Carreau
Corporate Manager, Environmental Affairs
Breakwater Resources Limited
Suite 2000, 95 Wellington Street West
Toronto ON M5J 2N7

Subject: Licence NWB1NAN0208
Approval of Phase II Environmental Site Assessment

Dear Mr. Carreau

The Nunavut Water Board ("NWB") has completed its technical review of CanZinco Limited's ("CanZinco") Phase II Environmental Site Assessment ("Phase II ESA"), submitted January 30, 2003, as well as all submissions received from interested parties. The NWB grants conditional final approval of the revised report subject to the following terms, conditions and clarifications:

1. That CanZinco incorporate all pertinent documentation and correspondence generated from the Phase II ESA review process, in addition to any new information developed from the 2003 sampling study. A full list of references and supporting documents should be presented in the forthcoming ESA.
2. That CanZinco include, as a dedicated chapter in the forthcoming ESA, a comprehensive discussion of the 1985 Soil Geochemistry Survey for Nanisivik. This chapter should include the following: a description of the soil sampling, soil analytical and QA/QC methodologies employed in the study; the survey's historic purpose in relation to mining activity at Nanisivik; the rationale for using the survey data in the ESA as opposed to applying other existing or surrogate data sets; a discussion of how mining activity prior to 1985 does, or does not, affect the utility of the data for the purposes of developing Soil Quality Remedial Objectives.
3. That CanZinco, in the discussion of Contaminants of Concern at Nanisivik, include a full rationale for excluding PCBs, PAHs, chlorinated ethenes, mine process chemicals and nitrogen compounds from its list of contaminants.
4. That CanZinco provide as an appendix in the forthcoming ESA, a list of all reported spill events that occurred during the operating history of the mine. The list should include the time, type of chemical, extent and location of the spills.
5. That CanZinco, in the discussion of hydrocarbon impacted soils, present a comprehensive list of the past and present locations of Aboveground Storage Tanks and Underground Storage Tanks.
6. That CanZinco include a discussion on the effects of contamination to fresh water receiving bodies with particular emphasis to Twin Creek, Chris Creek and Kuhulu

Lake, as well as shallow ground water. The impacts on the Metal Mining Effluent Regulations shall be addressed within this discussion.

7. That CanZinco ensure that sampling, analytical and QA/QC methodologies are described with full rationales provided.
8. That CanZinco, in its investigation of roadway materials, ensure that protocols used to identify mineralized waste rock are provided. A presentation of a vertical cross section of roads that identifies where mineralized rock have been identified as a building material would be a valuable addition to the forthcoming ESA.
9. That CanZinco, in regards to its soil sample analysis, provide an explanation as to why samples processed in the on-site laboratory were not used despite their inclusion in the January 30, 2003 ESA. An inventory of unanalyzed soil samples should be provided so that regulators will have an idea of what information is available for further examination.
10. That CanZinco clarify whether it considers its sampling activities at the Boneyard to be adequate despite the observation of samples with high levels of Pb and Zn in the January 30, 2003.
11. That CanZinco include further discussion on issues concerning the dock and related facilities including; hydrocarbon and process chemical contamination at the chemical and fuel storage area; conclusions regarding metal-rich sediments in Strathcona Sound. Results documenting contaminant levels near the mouth of Twin Creek and/or Strathcona Sound be included and discussed in greater detail than was presented in the January 30, 2003 ESA.
12. That CanZinco consider further characterization of the following items of concern: White crystal substance found at TP02-94 and TP0297 near the solid waste facility; areas around TP02-88 and TP02-50 where hydrocarbon impacted water was encountered; soil stained blue and green at the industrial complex; reagent storage area.
13. That CanZinco clarify whether it believes that leachate generated from burning at the Solid Waste Landfill is an environmental concern that warrants further examination.
14. That CanZinco, in regards to air quality monitoring, clarify whether additional monitoring will be required.
15. That CanZinco identify in the upcoming ESA if it believes that additional investigation required or whether its ESA studies are complete.

Questions and comments about the above-listed Terms and Conditions may be addressed to Dionne Filiatrault, NWB Senior Technical Advisor.

Yours truly,

Philippe di Pizzo
Executive Director

Cc: Distribution List

Appendix C

Nanisivik Mine, Complete Listing of Reported Spills



Hazardous Materials Spill Listing

Location: Nanisivik

Sorted By Spill Number for the Years 1971 - 2009

Spill No	Spill Date	Description	Commodity	Quantity (L or Kg)	Source
1978008	1-Apr-78	Bank and bed of Twin Lakes Creek	Tailings	465,000	PL
1981052	2-Aug-81	400M and 600M above concentrator	Pyrite tailings reclaim	Undetermined	PL
1983074	29-Sep-83	Twin Lakes Creek	Tailings	13,500	PL
1983077	29-Oct-83	Twin Lakes Creek near Mill	Tailings	5,000	PL
1985011	3-Feb-85	200 yards from first valve shack	Tailings lead zinc	50,000	PL
1985072	25-Jul-85	50 meters from Twin Lakes Creek	Tailings	11,250	PL
1988014	25-Feb-88	Tailings Dump Pond	Tailings slurry	10,000	TP
1990114	25-Jun-90	East adit catchments pond	Untreated runoff water	50,000	OTH
1990115	23-Jun-90	East adit retention pond dyke	Untreated run-off	Undetermined	OTH
1991123	7-Jul-91	East adit catchments pond	Water-contaminated	120,000	TP
1992135	24-Jun-92	East adit water treatment plant	Untreated run-off water	660,000	TP
1993010	27-Jan-93	Underground compressor room	Askarel oil (PCB)	2	OTH
1993167	8-Oct-93	Concentrator building	Tailings	10,000	PL
1993173	25-Oct-93	South side of town centre	Diesel fuel	91	ST<
1994008	18-Jan-94	300M beyond Duck Pond	Tailings Solution	100,000	PL
1994074	5-May-94	Tailings line near Duck Lake	Tailings	10,000	PL
1994075	5-May-94	Concentrator building	Reclaim water	150,000	OTH
1994089	2-May-94	Ship loading area	Calcium Hydroxide	1,000	OTH
1995077	3-Jun-95	Gas and adit treatment plant	Water-runoff	86,400	TP
1995142	27-Aug-95	House #406	Heating fuel	182	ST<
1995160	29-Sep-95	Along tailings line	Tailings	10,000	PL
1996128	3-Jul-96	East adit water treatment plant	Mine water	1,015,000	TP
1996145	30-Jul-96	East adit water treatment plant	Mine water	685,300	TP
1996182	11-Sep-96	Mill building	Tailings water	10,000	PL
1996210	4-Oct-96	Tailings line near water tower	Tailings	30,000	PL
1997162	17-Jul-97	Mill/mine perimeter road	Tailings	300	TRU
1997204	23-Aug-97	East adit treatment facility	Water-runoff	Undetermined	TP
1997205	27-Aug-97	Southern exit from the mill building	Water-runoff/motor O	1,015	TRU
1997217	15-Sep-97	Nanisivik dock facility	Diesel P-20	4	MV
1997237	6-Oct-97	Base of Mt. Fuji, Outside of West Twin	Tailings	Undetermined	TP
1998069	26-Apr-98	Saddle of ridge, outside w/twin disposal area	Mill tailings/shale dust	Undetermined	TP
1998090	6-Jun-98	Nanisivik dock storage area	Ammonium Nitrate	50	OTH
1999028	12-Mar-99	K baseline garage 4KM East of plant facility	Diesel P-60	450	PL
1999039	12-Mar-99	K baseline garage approximately 4KM East of plant facility	Diesel P-60	450	ST<
1999040	3-Apr-99	Saddle of ridge, outside west twin	Mill tailings/shale dust	Undetermined	OTH

Hazardous Materials Spill Listing
Location: Nanisivik
Sorted By Spill Number for the Years 1971 - 2009

Spill No	Spill Date	Description	Commodity	Quantity (L or Kg)	Source
1999073	19-Jun-99	ANFO fuel storage area near wet open pit	Diesel fuel	700	ST>
1999109	7-Sep-99	Fuel storage tank west open pit 500M	Diesel P-60	500	ST>
1999119	25-Sep-99	West twin disposal area	Tailings/shale	Undetermined	TP
2000014	27-Jan-00	Saddle of ridge outside of West Twin disposal area	Tailings/shale dust	Undetermined	TP
2000228	15-Aug-00	East adit treatment facility	Retention wastewater	1,000,000	TP
2000234	22-Jun-00	Ocean view pit	Mine water	10,000	TP
2000319	13-Dec-00	Near potable water tower with some migration down gradient	Tailings	Undetermined	PL
2001089	26-Mar-01	SE of Nanisivik town site along tailings	Mill floatation tailings slurry	400	PL
2001109	3-Apr-01	Saddle of ridge outside of West Twin	Tailings	100	TP
2001226	16-Jun-01	East adit treatment area 73:10N, 84:30W	Treatment effluent	3,100,000	SL
2001227	13-Jun-01	73:10N, 84:30W Nanisivik mine	Floatation tailings	500	PL
2001255	7-Aug-01	73:10N, 84:30W Nanisivik mine	Floatation tailings	250	PL
2001382	18-Dec-01	Near potable water tower	Mill solution	5,118	PL
2002260	10-Apr-02	East of upper dump pond	Mill tailings water	5,000	TP

LEGEND
Source:
AIR - Aircraft
DRUM- Drum or Barrel
MV - Marine Vessel
NS - Natural Seepage
OTH - Other Transportation
PL - Pipe or Line
RT - Rail Train
SL - Sewage Lagoon
ST< - Storage Tank < 4000 liters
ST - Storage Tank > 4000 liters
TP - Tailings Pond
TRU - Truck
UK - Unknown
WELL - Wet Wells Flairing Boom

Hazardous Materials Spill Database

Environmental Protection Service of RWED

600, 5102-50th Avenue, Yellowknife, NT X1A 3S8
Phone: (867) 873-7654 Fax: (867) 873-0221



Sorted by Spill Number for the year(s) : 1971-2009

July 4, 2002

Spill No	Spill Date	Region	Location	Description	Commodity	Quantity (L or kg)	Party	Source	Agency
✓ 1978008	01-Apr-78	BAF	Nanisivik	Bank & Bed of Twin Lakes Creek	Tailings	465000	Nanisivik Mines Ltd	PL	-
✓ 1983074	29-Sep-83	BAF	Nanisivik	Twin Lakes Creek	Tailings	13500	Nanisivik Mines Ltd	PL	INAC
✓ 1983077	29-Oct-83	BAF	Nanisivik	Twin Lakes Creek Near Mill	Tailings	5000	Nanisivik Mines Ltd	PL	INAC
✓ 1985011	03-Feb-85	BAF	Nanisivik	200 Yards From 1st Valve Shack	Tailings Lead Zinc	50000	Nanisivik Mines Ltd	PL	INAC
✓ 1985072	25-Jul-85	BAF	Nanisivik	50 Metres From Twin Lakes Creek	Tailings	11250	Nanisivik Mines Ltd	PL	INAC
✓ 1988014	25-Feb-88	BAF	Nanisivik	Tailings Dump Pond	Tailings Slurry	10000	Nanisivik Mines Ltd	TP	INAC
✓ 1990114	25-Jun-90	BAF	Nanisivik	East Adit Catchment Pond	Untreated Run-off Water	50000	Nanisivik Mines Ltd	OTH	INAC
✓ 1991123	07-Jul-91	BAF	Nanisivik	East Adit Catchment Pond	Water - Contaminated	120000	Nanisivik Mines Ltd	TP	INAC
✓ 1992135	24-Jun-92	BAF	Nanisivik	East Adit Water Treatment Plant	Untreated Run-off Water	660000	Nanisivik Mines Ltd	TP	INAC
✓ 1993010	27-Jan-93	BAF	Nanisivik	Underground Compressor Room	Asphalt Oil (PCB)	2	Nanisivik Mines Ltd	OTH	INAC
✓ 1993167	08-Oct-93	BAF	Nanisivik	Concentrator Building	Tailings	10000	Nanisivik Mines Ltd	PL	INAC
✓ 1994074	05-May-94	BAF	Nanisivik	Tailings Line Near Duck Lake	Tailings	10000	Nanisivik Mines Ltd	PL	INAC
✓ 1994075	05-May-94	BAF	Nanisivik	Concentrator Building	Reclaim Water	150000	Nanisivik Mines Ltd	OTH	INAC
✓ 1994089	02-May-94	BAF	Nanisivik	Ship Loading Area	Calcium Hydroxide	1000	Nanisivik Mines Ltd	OTH	INAC
✓ 1995077	03-Jun-95	BAF	Nanisivik	Gas & Adit Treatment Plant	Water - Runoff	86400	Nanisivik Mines Ltd	TP	INAC
✓ 1995142	27-Aug-95	BAF	Nanisivik	House #406	Heating Fuel	182	Nanisivik Mines Ltd	ST<	GNWT
✓ 1995160	29-Sep-95	BAF	Nanisivik	Along Tailings Line	Tailings	10000	Nanisivik Mines Ltd	PL	INAC
✓ 1996128	03-Jul-96	BAF	Nanisivik	East Adit Water Treatment Plant	Mine water	1015000	Nanisivik Mines Ltd	TP	INAC
✓ 1996145	30-Jul-96	BAF	Nanisivik	East Adit Water Treatment Plant	Mine water	685300	Nanisivik Mines Ltd	TP	INAC
✓ 1996182	11-Sep-96	BAF	Nanisivik	Mill Building	Tailings Water	10000	Nanisivik Mines Ltd	PL	INAC
✓ 1996210	04-Oct-96	BAF	Nanisivik	Tailings Line near Water Tower	Tailings	3000	Nanisivik Mines Ltd	PL	INAC
✓ 1997162	17-Jul-97	BAF	Nanisivik	Mill/Mine Perimeter road	Tailings	300	Nanisivik Mines Ltd	TRU	INAC
✓ 1997205	27-Aug-97	BAF	Nanisivik	Southern Exit from the Mill Building	Water - Runoff/Motor O	1015	Nanisivik Mines Ltd	TRU	INAC
✓ 1999028	12-Mar-99	BAF	Nanisivik	K Baseline Garage 4km East of Plant Facility	Diesel P-60	450	Nanisivik Mines Ltd	PL	INAC
✓ 1999039	12-Mar-99	BAF	Nanisivik	K Baseline Garage Approx. 4 km East of Plant F	Diesel P-60	450	Nanisivik Mines Ltd	ST<	INAC
✓ 1999073	19-Jun-99	BAF	Nanisivik	ANFO Fuel Storage Area Near Wet Open Pit	Diesel Fuel	700	Nanisivik Mines Ltd	ST>	INAC
✓ 1999109	07-Sep-99	BAF	Nanisivik	Fuel Storage Tank West Open Pit 500m	Diesel P-60	500	Nanisivik Mines Ltd	ST>	INAC

94-000 Nanisivik

Spill No	Spill Date	Region	Location	Description	Commodity	Quantity (L or kg)	Party	Source	Agency
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Total Spills on this Report: 27

This report contains information regarding spills that were reported to the NWT 24-Hour Spill Line. The absence of information on any particular location in no way guarantees that contamination has not occurred at that location.

LEGEND

Region: BAF - Baffin DEH - Deh Cho INU - Inuvik KEE - Keewatin KIT - Kitikmeot	Source: AIR - Aircraft DRUM - Drum or Barrel MV - Marine Vessel NS - Natural Seepage OTH - Other Transportation	PL - Pipe or Line RT - Rail Train SL - Sewage Lagoon ST< - Storage Tank 4000 litres ST> - Storage Tank >4000 litres	TP - Tailings Pond TRU - Truck UK - Unknown WELL - Wet Wells Flaring Boom	Agency: CCG - Canadian Coast Guard EPS - Environment Canada GNWT - Government of the Northwest Territories ILA - Inuvialuit Lands Administration INAC-Indian and Northern Affairs Canada
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Hazardous Materials Spill Database

Environmental Protection Service of RWED

600, 5102-50th Avenue; Yellowknife, NT X1A 3S8
Phone: (867) 873-7654 Fax: (867) 873-0221

Sorted by Spill Number for the year(s) : 1971-2009

July 4, 2002

Spill No	Spill Date	Region	Location	Description	Commodity	Quantity (L or kg)	Party	Source	Agency
1973007	18-Apr-73	BAF		Eureka	JP1	136380	Department of National Defence	ST>	-
1973020	17-Jul-73	BAF		Arvik Mine Little Cornwallis Island	Arctic Diesel	181840	Cominco	ST>	-
1973035	20-Oct-73	BAF		Oske Bay Ellesmere Island	Diesel Fuel	9092	Atlantic Richfield Oil Can.	ST>	-
1973037	06-Dec-73	BAF		Port Burwell	Heating Oil	27276	Shell Canada	PL	-
1974016	08-Jun-74	BAF		Eureka AES Station, Ellesmere Island	JP1	9092	Narwhal Arctic Services	ST>	-
1974039	01-Oct-74	BAF		Brewer Bay Resolution Island	Fuel Oil	186386	Carlson Shipping Co	MV	-
1975011	06-Apr-75	BAF		Panarctic South Drake D-73 Well site	JP1	86374	Panarctic Oil Ltd	ST>	-
1975019	01-Jan-75	BAF		Bent Horn #2 Well site	Diesel Fuel	1818	Panarctic Oil Ltd	ST>	-
1976020		BAF	Alert	Depression Near AES Camp	Diesel Fuel	318220	Department of National Defence	PL	INAC
1977043	10-Sep-77	BAF	Instant Early Warning	DYE M Cape Dyer	Diesel Fuel	52995	FSI Managing Contractor	PL	GNWT
1978008	01-Apr-78	BAF	Nanisivik	Bank & Bed of Twin Lakes Creek	Tailings	465000	Nanisivik Mines Ltd	PL	-
1979031	13-Jun-79	BAF		Brevort Island	Jet A-1	409	Imperial Oil Ltd	TRU	INAC
1979043	25-Aug-79	BAF		Esso HB GJoa G-37 62 29N 56 06 28W	Diesel Fuel	91	Federal Offshore Services	MV	-
1980060	18-May-80	BAF	Alert	Day Tank Area	Arctic Diesel	13638	Department of National Defence	ST>	-
1981006	11-Feb-81	BAF	Instant Early Warning	DYE M Cape Dyer	Diesel Fuel	21198	Felec Services	ST>	INAC
1981032	25-May-81	BAF		Cameron Island 76 21 22N 104 01 14W	Diesel - Class 3	410	Panarctic Oil Ltd	ST>	INAC
1982069	07-Jul-82	BAF		Sherrard Bay Melville Island	JP1	4500	Panarctic Oil Ltd	ST>	INAC
1982098	22-Nov-82	BAF	Polaris	Welding Shop	Diesel P-40	68190	Cominco Polaris Mine	PL	INAC
1983027	21-Apr-83	BAF	Polaris	Pumphouse Door & Dump Basin	Tailings Slurry	1136500	Cominco	OTH	INAC
1983034	25-May-83	BAF	Instant Early Warning	DYE M Cape Dyer	Arctic Diesel	2823	Department of National Defence	ST>	GNWT
1983071	27-Aug-83	BAF	Polaris	Mine Dock Area	Diesel P-60	675	Cominco	PL	INAC
1983074	29-Sep-83	BAF	Nanisivik	Twin Lakes Creek	Tailings	13500	Nanisivik Mines Ltd	PL	INAC
1983077	29-Oct-83	BAF	Nanisivik	Twin Lakes Creek Near Mill	Tailings	5000	Nanisivik Mines Ltd	PL	INAC
1984013		BAF	Instant Early Warning	FOX 4 Cape Hooper	Arctic Diesel	38600	Department of National Defence	PL	EPS
1984066	26-Jun-84	BAF	Instant Early Warning	DYE M Cape Dyer	Diesel Fuel	225	Felec Services	PL	INAC
1984071	06-Jul-84	BAF	Instant Early Warning	DYE M Cape Dyer	Diesel Fuel	6700	Felec Services	ST>	INAC
1985011	03-Feb-85	BAF	Nanisivik	200 Yards From 1st Valve Shack	Tailings Lead Zinc	50000	Nanisivik Mines Ltd	PL	INAC
1985019	18-Feb-85	BAF	Polaris	Discharge Line Garrow Lake	Tailings	80000000	Cominco	PL	INAC
1985048	28-May-85	BAF	Instant Early Warning	DYE M Cape Dyer	Diesel Fuel	6130	US Air Force	ST>	EPS
1985072	25-Jul-85	BAF	Nanisivik	50 Metres From Twin Lakes Creek	Tailings	11250	Nanisivik Mines Ltd	PL	INAC
1985105	17-Oct-85	BAF	Instant Early Warning	FOX 3 Dewar Lakes	Diesel Fuel	800	Department of National Defence	ST<	EPS

Spill No	Spill Date	Region	Location	Description	Commodity	Quantity (L or kg)	Party	Source	Agency
1986030	12-Apr-86	BAF	Polaris	100 M From Tailings Thickener	Tailings	32000	Cominco Polaris Mine	PL	INAC
1986065	05-Jul-86	BAF	Island Early Warning	FOX M Hall Beach	Arctic Diesel	380	Felec Services	ST>	EPS
1988011	10-Feb-88	BAF	Polaris	Between Barge & Tailings Thickener	Tailings Slurry	5000	Cominco	PL	INAC
1988012	18-Feb-88	BAF		Apex 3 Km From Iglood	Diesel Fuel	900	Tower Arctic Ltd	ST<	GNWT
1988014	25-Feb-88	BAF	Nanisivik	Tailings Dump Pond	Tailings Slurry	10000	Nanisivik Mines Ltd	TP	INAC
1988032	29-Mar-88	BAF	Island Early Warning	CAM 5 Macker Inlet	Diesel P-40	2273	Felec Services	PL	EPS
1988153	19-Sep-88	BAF	Island Early Warning	BAF 3 Breevor Island	Diesel Fuel	2700	Laval Fortain Ltd	PL	INAC
1989010	01-Jan-89	BAF	Polaris	Tailings Pond	Tailings	77000000	Cominco Polaris Mine	PL	INAC
1989075	05-Jun-89	BAF		Bent Horn near Resolute Bay	Crude Oil	4500	Panarctic Oil Ltd	PL	INAC
1989078	09-Jun-89	BAF	Island Early Warning	FOX 5 Broughton Island	Used Oil	20	Felec Services	OTH	EPS
1989128	21-Aug-89	BAF	orth Warning System	DYE M Cape Dyer	Arctic Diesel	180	Frontec Logistics	ST<	EPS
1989136	03-Sep-89	BAF	Polaris	Between Storage Building & Fuel Tanks	Tailings	10000	Cominco	PL	INAC
1989154	26-Sep-89	BAF	Polaris	Tailings Line East of Storage Building	Tailings	2000	Cominco	PL	INAC
1989155	27-Sep-89	BAF	Alert	Power Plant	Arctic Diesel	454	Department of National Defence	ST<	EPS
1989167	26-Sep-89	BAF	Polaris	Tailings Line East of Storage Building	Tailings	3000	Cominco	PL	INAC
1989168	23-Oct-89	BAF	orth Warning System	DYE M Cape Dyer	JP4	935	Frontec Logistics	PL	EPS
1989170	16-Oct-89	BAF	Island Early Warning	FOX M Hall Beach	Gasoline	80	Felec Services	ST>	EPS
1989182	23-Nov-89	BAF	Island Early Warning	DYE M Cape Dyer	Diesel Fuel	1400	Frontec Logistics	PL	EPS
1989184		BAF	Island Early Warning	DYE M Cape Dyer	Diesel Fuel	630	Frontec Logistics	ST<	EPS
1990007	14-Jan-90	BAF	Island Early Warning	DYE M Cape Dyer	JP4	108436	Frontec Logistics	PL	EPS
1990014	01-Feb-90	BAF	Island Early Warning	DYE M Cape Dyer	Gasoline	25	Frontec Logistics	ST<	EPS
1990020	16-Feb-90	BAF	Polaris	Garrow Lake	Tailings	30000	Cominco	PL	INAC
1990036	16-Mar-90	BAF	Alert	Inside Heavy Equipment Storage Building	Diesel Fuel	200	Department of National Defence	PL	GNWT
1990084	04-Jun-90	BAF	Island Early Warning	DYE M Cape Dyer	Diesel Fuel	3410	Frontec Logistics	PL	EPS
1990093	11-Jun-90	BAF	Alert	Between Fuel Line & Bay	Diesel Fuel	100	Department of National Defence	PL	EPS
1990102	22-Jun-90	BAF	Alert	Southeast Section of HAPS Buildings #1 to #5	Fuel Oil #1	900	Department of National Defence	PL	EPS
1990112		BAF		Eureka Weather Station	Diesel P-50	37500	Atmospheric Environment Serv	PL	EPS
1990114	25-Jun-90	BAF	Nanisivik	East Adit Catchment Pond	Untreated Run-off Water	50000	Nanisivik Mines Ltd	OTH	INAC
1990116	11-Jul-90	BAF	Alert	West of Building #52	Fuel Oil	20	Department of National Defence	PL	EPS
1990131	26-Jul-90	BAF	Alert	Outside Building #52	Diesel #1	25	Department of National Defence	PL	EPS
1990139	07-Aug-90	BAF	Alert	Main Fuel Line	Arctic Diesel	200	Department of National Defence	PL	EPS
1990160	07-Sep-90	BAF		Broughton Island Strait & Mainland	Diesel - Marine	5200	CCG	MV	CCG
1990185	17-Oct-90	BAF		Cape Dorset Harbour	Diesel Fuel/Lubricants	68	Joe Hess	MV	CCG
1990186	18-Oct-90	BAF		Eureka Weather Station	Gasoline	227	Atmospheric Environment Serv	ST<	EPS
1990207	10-Dec-90	BAF	Alert	Building #129	Arctic Diesel	9	Department of National Defence	PL	EPS
1991056	09-May-91	BAF	Alert	Storage Tank	Diesel #1	235	Department of National Defence	ST<	EPS
1991078	30-May-91	BAF	Polaris	South Storage Tank	Tailings Slurry	4540	Cominco Polaris Mine	PL	INAC
1891084	03-Jun-91	BAF	orth Warning System	DYE M Cape Dyer	Diesel Fuel	182	Frontec Logistics	PL	EPS

Sorted by Spill Number for the year(s) : 1971-2009

Spill No	Spill Date	Region	Location	Description	Commodity	Quantity (L or kg)	Party	Source	Agency
1991087	06-Jun-91	BAF	orth Warning System	FOX M Hall Beach	Lube Oil	227	Frontec Logistics	ST<	EPS
1991110	26-Jun-91	BAF	orth Warning System	FOX 3 Dewar Lakes	Diesel P-40	273	Frontec Logistics	UK	EPS
1991115	30-Jun-91	BAF	Alert	-	Diesel Fuel	2400	Department of National Defence	ST>	EPS
1991120	23-Jun-91	BAF	orth Warning System	FOX CA Kangok Fiord	Hydraulic Oil/Engine Oil	150	PCL Foundation	TRU	INAC
1991123	07-Jul-91	BAF	Nanisivik	East Adit Catchment Pond	Water - Contaminated	120000	Nanisivik Mines Ltd	TP	INAC
1991127	10-Jul-91	BAF	orth Warning System	Mould Bay Prince Patrick Island	Diesel Fuel	577	Atmospheric Environment Serv	ST<	EPS
1991129	18-Jul-91	BAF	orth Warning System	FOX 2 Longstaff Bluff	Diesel Fuel	9	Felec Services	PL	EPS
1991143	06-Aug-91	BAF	orth Warning System	FOX 5 Broughton Island	Arctic Diesel	454	Felec Services	ST<	EPS
1991145		BAF		Sherard Bay	Jet A	90	Panarctic Oil Ltd	ST<	INAC
1991154	13-Aug-91	BAF		130 Nautical Miles East of Resolution Islands	Diesel Fuel	100	CCG	MV	CCG
1991171	03-Aug-91	BAF	Alert	-	Diesel Fuel	10000	Department of National Defence	PL	EPS
1991179	14-Sep-91	BAF	orth Warning System	FOX M Hall Beach	Jet A-1	40	Frontec Logistics	PL	EPS
1991210	21-Nov-91	BAF	Alert	30 km South of CFS Alert	Arctic Diesel	15300	Department of National Defence	AIR	INAC
1992008	30-Jan-92	BAF	Alert	Under Building #16	Arctic Diesel	2000	Department of National Defence	ST<	EPS
1992060	03-May-92	BAF	Polaris	South of Concentrate Storage Building	Tailings Slurry	2273	Cominco	PL	INAC
1992135	24-Jun-92	BAF	Nanisivik	East Adit Water Treatment Plant	Untreated Run-off Water	650000	Nanisivik Mines Ltd	TP	INAC
1992151	02-Jul-92	BAF	orth Warning System	FOX 5 Broughton Island	Arctic Diesel	7501	Frontec Logistics	ST>	EPS
1992183	20-Aug-92	BAF	orth Warning System	DYE M Cape Dyer	Diesel Fuel	100	Frontec Logistics	PL	EPS
1992201		BAF		Diana Island & Hudson Bay Coastline	Lube Oil	4000	Unknown	ST>	CCG
1992233		BAF	Polaris	South of Concentrate Storage Building	Tailings Slurry	62500	Cominco	PL	INAC
1993010	27-Jan-93	BAF	Nanisivik	Underground Compressor Room	Askarel Oil (PCB)	2	Nanisivik Mines Ltd	OTH	INAC
1993057		BAF	Alert	Upper Tank Farm	Arctic Diesel	1000	Unknown	PL	EPS
1993143		BAF	Alert	Strip Shack Runway	Arctic Diesel	3182	Department of National Defence	PL	EPS
1993167	08-Oct-93	BAF	Nanisivik	Concentrator Building	Tailings	10000	Nanisivik Mines Ltd	PL	INAC
1993173	25-Oct-93	BAF	Nanisivik	South Side of Town Centre	Diesel Fuel	91	DPW	ST<	GNWT
1993190	23-Dec-93	BAF	Alert	Canadian Forces Station	SR-1 Transfer Fluid 40	2273	Department of National Defence	PL	EPS
1994033	28-Feb-94	BAF	Alert	Canadian Forces Station	Diesel Fuel	45	Department of National Defence	ST>	EPS
1994045	20-Mar-94	BAF	Alert	Canadian Forces Station	Dowtherm Transfer Fluid	227	Department of National Defence	PL	EPS
1994051		BAF	orth Warning System	FOX 5 Broughton Island	Jet A-1	2	Frontec Logistics	UK	EPS
1994074	05-May-94	BAF	Nanisivik	Tailings Line Near Duck Lake	Tailings	10000	Nanisivik Mines Ltd	PL	INAC
1994075	05-May-94	BAF	Nanisivik	Concentrator Building	Reclaim Water	150000	Nanisivik Mines Ltd	OTH	INAC
1994079	15-May-94	BAF	Alert	Building #145 Power Plant	Dowtherm (R) SR-IC Tr	3182	Department of National Defence	PL	EPS
1994087	28-May-94	BAF	Alert	Building #114 Water Treatment Plant	Diesel Fuel	45	WFE Tech	UK	EPS
1994089	02-May-94	BAF	Nanisivik	Ship Loading Area	Calcium Hydroxide	1000	Nanisivik Mines Ltd	OTH	INAC
1994116	29-Jun-94	BAF	orth Warning System	BAF 3 Breevoort Island	Jet A-1	15490	Frontec Logistics	ST>	EPS
1994156	23-Aug-94	BAF		Rea Point Melville Island	Jet A	1013	Panarctic Oil Ltd	ST>	NEB
1994159	29-Aug-94	BAF	Instant Early Warning	Broughton Island Old DEW Line Garage	Arctic Diesel	13	Narwhal Arctic Services	PL	EPS
1994169	10-Sep-94	BAF		Between Baffin Island & Greenland	Oil	22400	Unknown	UK	CCG

Sorted by Spill Number for the year(s) : 1971-2009

Spill No	Spill Date	Region	Location	Description	Commodity	Quantity (L or kg)	Party	Source	Agency
1994213	01-Dec-94	BAF	Alert	Station Day Tank	JP8	180	Supply Tech.	ST<	EPS
1995077	03-Jun-95	BAF	Nanisivik	Gas & Adit Treatment Plant	Water - Runoff	86400	Nanisivik Mines Ltd	TP	INAC
1995095	20-Jun-95	BAF	Alert	Building 125	JP8	909	Department of National Defence	ST<	EPS
1995108	07-Jul-95	BAF	orth Warning System	FOX Main Hall Beach	Jet A-1	151	Frontec Logistics	ST>	EPS
1995126	03-Aug-95	BAF		75 18.7N 97 57.3W	Blige Oil	1	CCG	MV	CCG
1995142	27-Aug-95	BAF	Nanisivik	House #406	Heating Fuel	182	Nanisivik Mines Ltd	ST<	GNWT
1995156	21-Sep-95	BAF	orth Warning System	FOX Main Hall Beach	Jet A-1	23	Frontec Logistics	PL	EPS
1995160	29-Sep-95	BAF	Nanisivik	Along Tailings Line	Tailings	10000	Nanisivik Mines Ltd	PL	INAC
1995170	19-Oct-95	BAF	Alert	Building #131	JP8	16820	Department of National Defence	ST>	EPS
1995180	08-Nov-95	BAF	Alert	-	Hydraulic Fluid	10	Department of National Defence	TRU	EPS
1995181	01-Oct-95	BAF	Alert	-	Hydraulic Fluid	10	Department of National Defence	TRU	EPS
1995185	18-Nov-95	BAF	Alert	Inside Hurricane Building	Motor Oil	91	Department of National Defence	ST<	EPS
1995187	22-Nov-95	BAF	Alert	-	Glycol	2	Department of National Defence	ST<	EPS
1995197	13-Dec-95	BAF	Alert	-	Tar-like Substance	1	Department of National Defence	OTH	EPS
1996005	22-Jan-96	BAF	Alert	CFS Alert, NT, Ellesmere Island	Hydraulic Fluid	2	Department of National Defence	OTH	EPS
1996008	25-Jan-96	BAF	Alert	Barrack Block 116 Laddner Hall	JP8	100	Department of National Defence	ST>	EPS
1996017	07-Feb-96	BAF	orth Warning System	Frontec Building West 40	Heating Oil	200	Frontec Logistics	ST>	EPS
1996020	12-Feb-96	BAF	Alert	Inside Building 113, Alert, NT	Diesel Fuel	50	Department of National Defence	OTH	EPS
1996047	28-Mar-96	BAF	Alert	Upper POL, Alert, NT	JP8	200	Department of National Defence	PL	EPS
1996053	12-Apr-96	BAF	orth Warning System	FOX B Nadiardjuk Lake	Fuel	30	Frontec Logistics	OTH	EPS
1996116	28-Jun-96	BAF	orth Warning System	FOX B Nadiardjuk Lake	Jet A-1	80000	Frontec Logistics	ST>	EPS
1996128	03-Jul-96	BAF	Nanisivik	East Adit Water Treatment Plant	Minewater	1015000	Nanisivik Mines Ltd	TP	INAC
1996145	30-Jul-96	BAF	Nanisivik	East Adit Water Treatment Plant	Minewater	685300	Nanisivik Mines Ltd	TP	INAC
1996158	22-Aug-96	BAF	orth Warning System	DYE M Cape Dyer	Jet A-1	814	Frontec Logistics	UK	EPS
1996182	11-Sep-96	BAF	Nanisivik	Mill Building	Tailings Water	10000	Nanisivik Mines Ltd	PL	INAC
1996208	03-Oct-96	BAF	orth Warning System	BAF 3 Breevoort Island	Jet A-1	3300	Frontec Logistics	ST>	EPS
1996210	04-Oct-96	BAF	Nanisivik	Tailings Line near Water Tower	Tailings	3000	Nanisivik Mines Ltd	PL	INAC
1996247	07-Dec-96	BAF	orth Warning System	FOX Main Hall Beach	Jet A-1	120	Frontec Logistics	PL	EPS
1997011	03-Feb-97	BAF	orth Warning System	FOX 4 Cape Hooper	Heating Fuel P-50	909	Qikittaalik Corporation/Nunas	ST<	EPS
1997056	10-Apr-97	BAF	orth Warning System	FOX 3 Dewar lakes	Jet A-1	1200	Frontec Logistics	OTH	EPS
1997071	26-Apr-97	BAF	orth Warning System	DYE M Cape Dyer	Jet A-1	1060	Frontec Logistics	ST>	EPS
1997117	10-Jun-97	BAF	orth Warning System	FOX M Hall Beach	Jet A-1	1817	Frontec Logistics	ST>	EPS
1997139	01-Jul-97	BAF	orth Warning System	FOX 3 Dewar Lakes	Jet A-1	115	Frontec Logistics	ST>	EPS
1997162	17-Jul-97	BAF	Nanisivik	Mill/Mine Perimeter road	Tailings	300	Nanisivik Mines Ltd	TRU	INAC
1997176	30-Jul-97	BAF		George River 58 40.6N 65 57.5W	Diesel Fuel	1000	Ship - Jade Star	PL	INAC
1997177		BAF		Eureka Weather Station	Diesel Fuel	9092	Environment Canada	ST>	EPS
1997179	04-Aug-97	BAF		Mould Bay - Near Tanks	Diesel Fuel	45	PI Enterprises (for Environme	ST>	EPS
1997180	04-Aug-97	BAF		Mould Bay	Diesel Fuel	360	PI Enterprises (for Environme	ST>	EPS