

Table I-1: Weather Stations Proximal to West Twin Disposal Area

Station Name	AES Station Number	Station Location		Elevation (m)	Available Period of Record	Approx. Distance to WTDA (km)
		Latitude	Longitude			
Arctic Bay	2400400	73° 2' N	85° 9' W	11	1937-1976	25
Arctic Bay CS	2400404	73° 0' N	85° 1' W	10	1999-2003	25
Nanisivik Airport AES	2402730	72° 58' N	84° 37' W	642	1976-2003	10
Nanisivik WTDA	N/A	73° 02' N	84° 31' W	372	1993-2001	0
Pond Inlet	2403200	72° 41' N	77° 59' W	4	1922-1965	220
Pond Inlet A	2403201	72° 40' N	77° 58' W	55	1975-2003	220
Resolute CARS	2403500	74° 43' N	94° 58' W	67	1947-2003	350

**Table I-2: Mean Monthly Air Temperatures at Nanisivik Airport Station
(Period of Record: 1977 to 2000)**

Month	Monthly Air Temperatures (°C)		
	Minimum Mean	Mean	Maximum Mean
January	-32.1	-29.2	-26.5
February	-33.1	-30.3	-27.3
March	-30.8	-27.8	-24.7
April	-23.4	-20.0	-16.6
May	-13.5	-10.6	-7.8
June	-2.8	-0.4	1.9
July	2.5	4.9	7.4
August	-0.8	1.5	3.7
September	-7.6	-5.6	-3.8
October	-17.2	-14.9	-12.6
November	-25.4	-22.7	-19.9
December	-29.4	-26.6	-22.0
Annual	-17.8	-15.1	-10.1

**Table I-3: Monthly Precipitation Values at Nanisivik Station
(Period of Record: 1977 to 2000)**

Month	Total Precipitation ⁽¹⁾			Mean Monthly Rainfall (mm) ⁽²⁾	Mean Monthly Snowfall (cm) ⁽²⁾
	Historical Monthly Low (mm/year of occurrence)	Monthly Mean (mm)	Historical Monthly High (mm/year of occurrence)		
January	Trace/1978	7.6	70.0/1977	0	4.4
February	Trace/1978	3.9	16.8/1986	0	3.8
March	0.2/1982	6.6	19.6/1986	0	6.4
April	Trace/1992	9.8	31.0/1989	0	9.8
May	1.2/1998	17.2	68.6/1991	1	16.9
June	1.0/2000	23.5	47.5/1985	6.7	15.7
July	6.2/1999	35.3	71.2/1983	27.5	7.2
August	6.4/1990	40.9	71.7/1996	22.5	17.3
September	10.2/1992	43.5	88.0/1977	4.2	36.9
October	4.0/1997	30.9	98.6/1985	1	31.2
November	1.6/1992	16.0	62.7/1981	0	15.8
December	Trace/1988	7.3	19.9/1976	0	7.3
Annual		242.5		62.9	172.7

(1) Precipitation data at the Nanisivik climate station have not been corrected for snowfall under-catch.

(2) Mean rainfall and snowfall data is missing significant amounts of data and are therefore approximate.

**Table I-4: Derived Extreme Annual Precipitation Values at Nanisivik Station
(after Golder 1998)
(Period of Record: 1977 to 1997)**

Return Period (Years)	Annual Precipitation ⁽¹⁾ (mm)
2	232
5	275
10	302
20	327
50	357
100	380
200	402
500	431

(1) Precipitation data at the Nanisivik climate station are not corrected for snowfall under-catch.

**Table I-5: Frequencies of Extreme Rainfall at Pond Inlet Airport Climate Station
(after Golder 1998)**

Return Period (Year)	Extreme Rainfall Intensity for Various Durations (mm/hr)						
	5- Minute	10- Minute	30- Minute	1- Hour	2- Hour	12- Hour	24- Hour
2	8.5	6.6	4.4	3.5	2.8	1.2	0.8
5	11.3	8.7	5.9	4.6	3.6	1.5	1.0
10	13.2	10.1	6.9	5.3	4.1	1.7	1.1
20	15.5	11.8	8.1	6.2	4.8	2.0	1.3
50	17.2	13.1	9.0	6.8	5.3	2.2	1.4
100	18.9	14.4	9.9	7.5	5.8	2.4	1.5

**Table I-6: Estimated Mean Monthly and Annual Lake Evaporations
(after Reid, 1996)**

Month ⁽¹⁾	Lake Evaporation (mm)
January	0
February	0
March	0
April	0
May	0
June	51
July	101
August	31
September	20
October	0
November	0
December	0
Total	203

(1) Distribution of monthly lake evaporation were derived based on mean monthly air temperatures.

Table I-7: Global Warming Estimates for Nanisivik Based on Best Estimate Case

	70°N Latitude					80°N Latitude					73°N Latitude
Year	DJF	MAM	JJA	SON	Annual	DJF	MAM	JJA	SON	Annual	Annual
2000	0.5	0.4	0.1	0.1	0.3	1.3	0.7	0.1	0.5	0.7	0.4
2100	6.0	4.2	1.0	1.1	3.1	7.0	3.5	0.5	2.4	3.4	3.2
Difference					2.8					2.7	2.8

Table I-8: Global Warming Estimates for Nanisivik Based on High Sensitivity Case

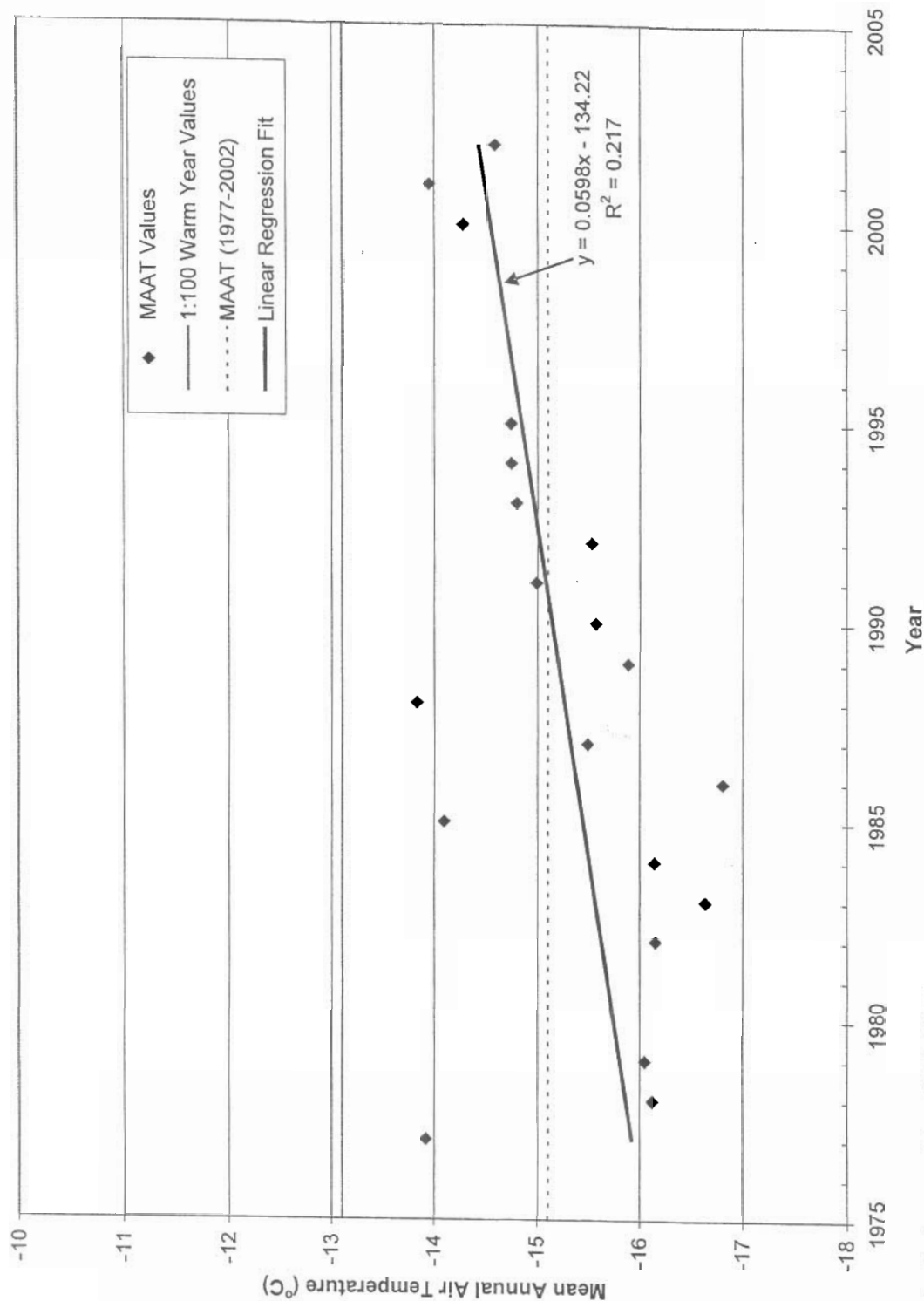
	70°N Latitude					80°N Latitude					73°N Latitude
Year	DJF	MAM	JJA	SON	Annual	DJF	MAM	JJA	SON	Annual	Annual
2000	1.0	0.7	0.2	0.2	0.5	1.1	0.6	0.1	0.4	0.6	0.5
2100	10.5	7.2	1.8	2.0	5.4	12.3	6.2	0.9	4.2	5.9	5.5
Difference					4.9					5.4	5.0

Table I-9: Design Values of MAAT for Selected Northern Projects

	FOX-M DEW ¹ Line Site	Nanisivik	Polaris Mine ²
Approximate Latitude	69° N	73° N	76° N
Long-term Mean Annual Air Temperature	-14.1° C	-15.1° C	-16.5° C
1 in 100 Year Warm Year	-11.1° C	-13.3° C	-13.5° C
Best Estimate Global Warming in 2100	-10.7° C	-12.3° C	-13.5° C
High Sensitivity Global Warming in 2100	-8.2° C	-10.1° C	-11.4° C

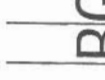
(1) Values derived from Grozic et al. (2003).

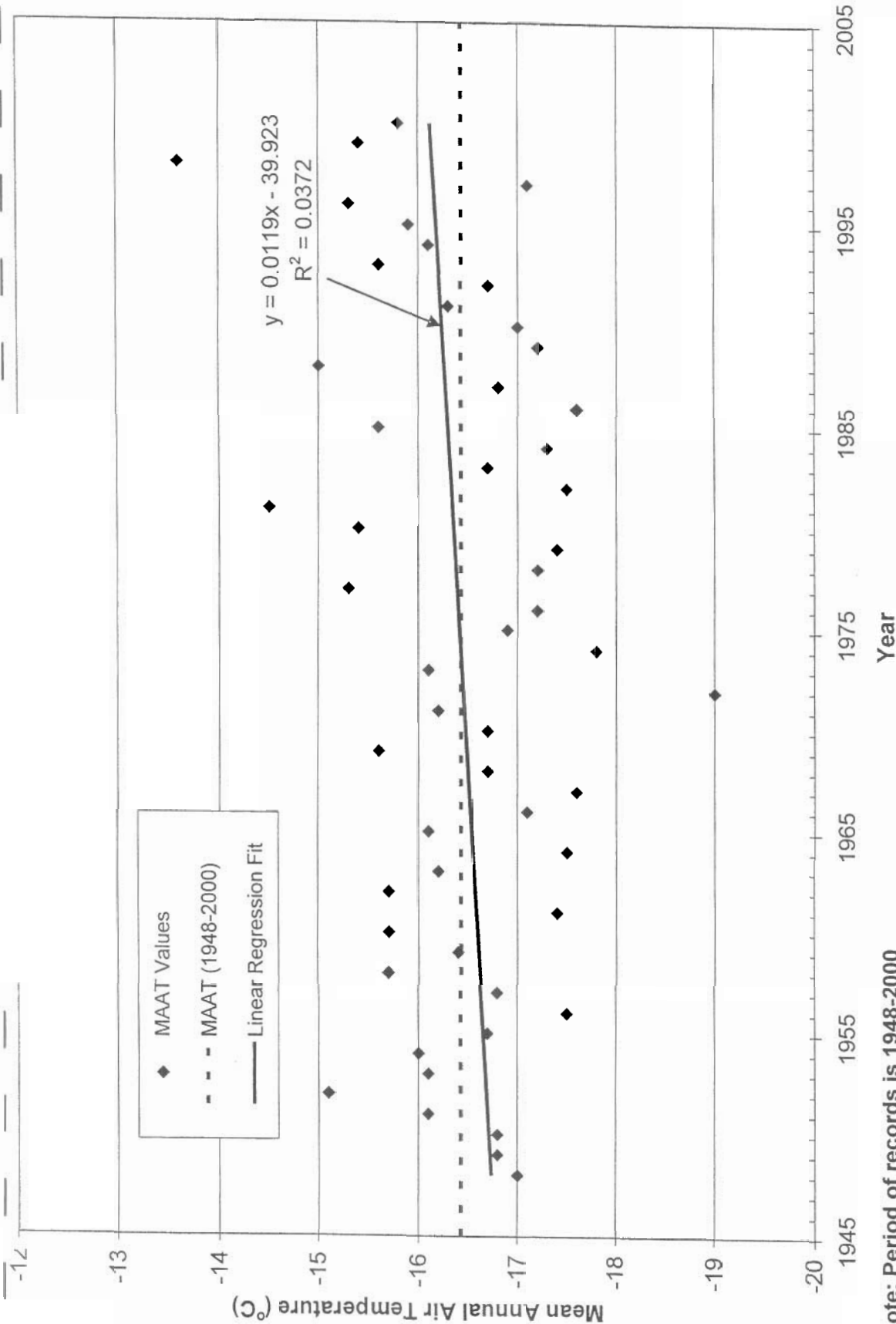
(2) Values derived from EBA (2001).



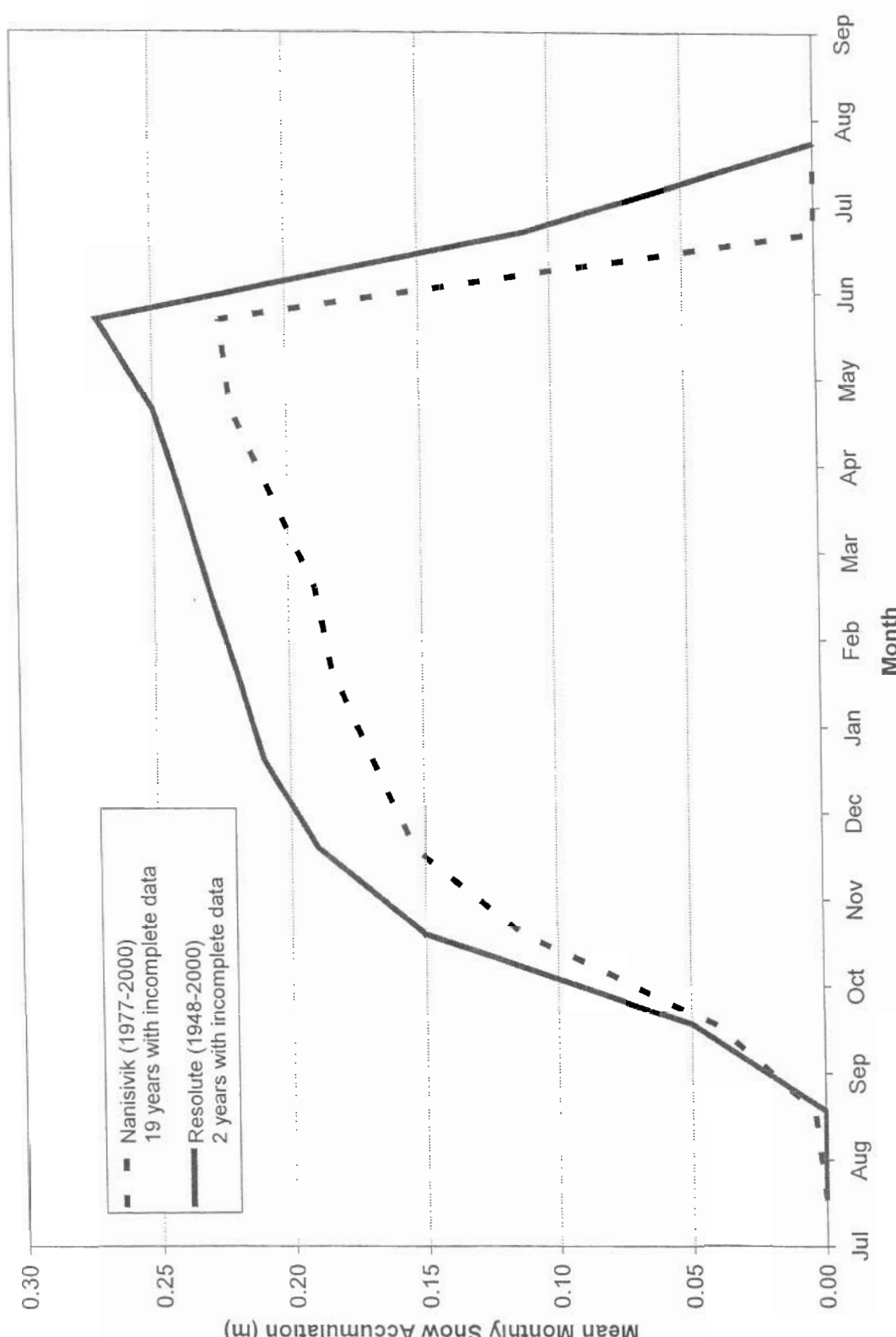
Note: 1) Period of record is 1977-2002

2) Six years of data missing from period of record

DATE: JAN 2004		DRAWN	SLF
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CLIENT NANISIVIK MINE, A DIVISION OF CANZINCO LTD.		TITLE NANISIVIK MEAN ANNUAL AIR TEMPERATURES VS. TIME	
PROJECT No. 0255-008-03		DWG. No. I-1	REV. 0

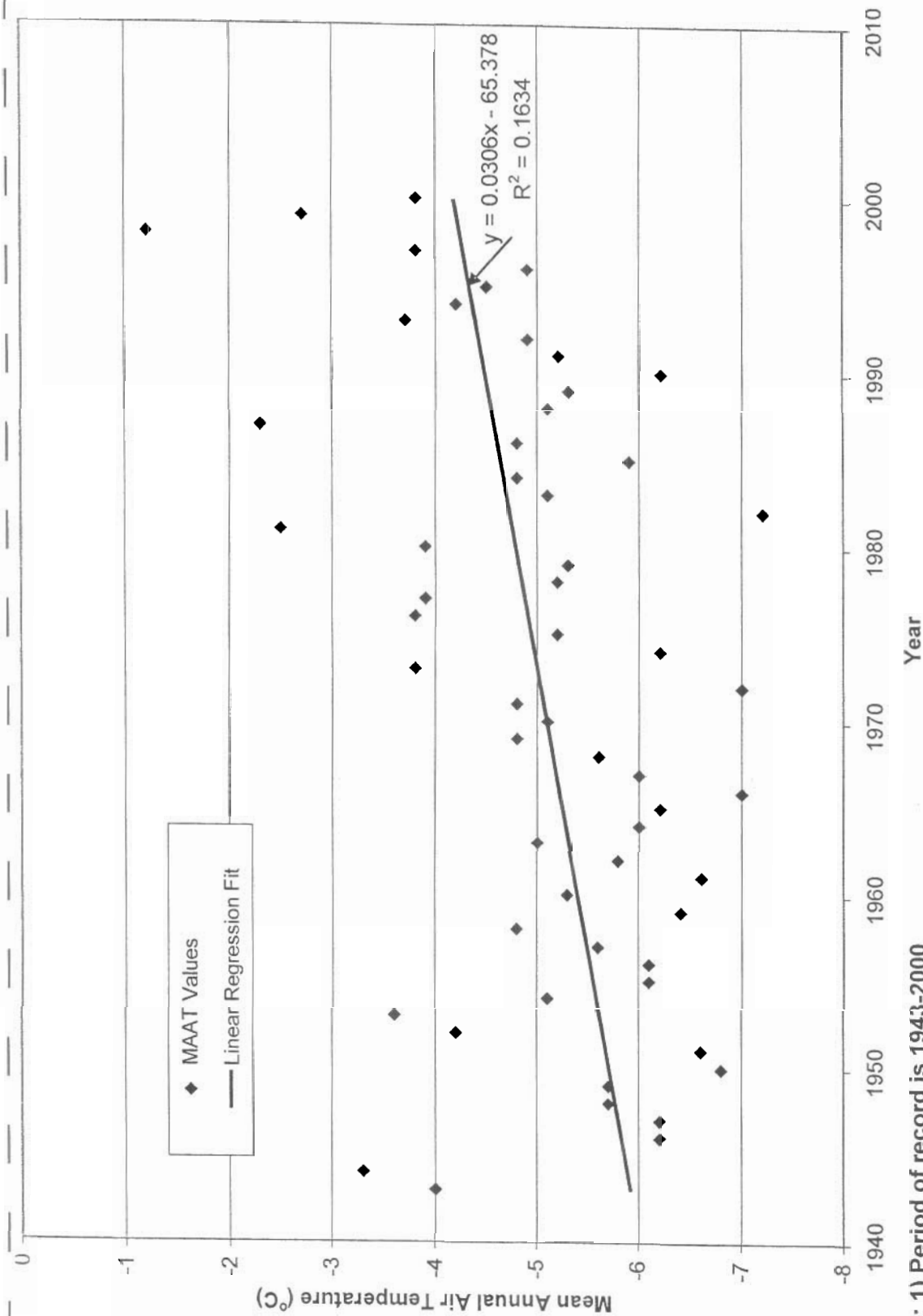


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		TITLE: RESOLUTE MEAN ANNUAL AIR TEMPERATURES VS. TIME			



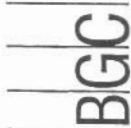
DATE: JAN 2004		DRAWN	SLF
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TITLE NANISIVIK AND RESOLUTE SNOWFALL ACCUMULATIONS		PROJECT No. 0255-008-03	DWG. No. I-3
		REV. 0	

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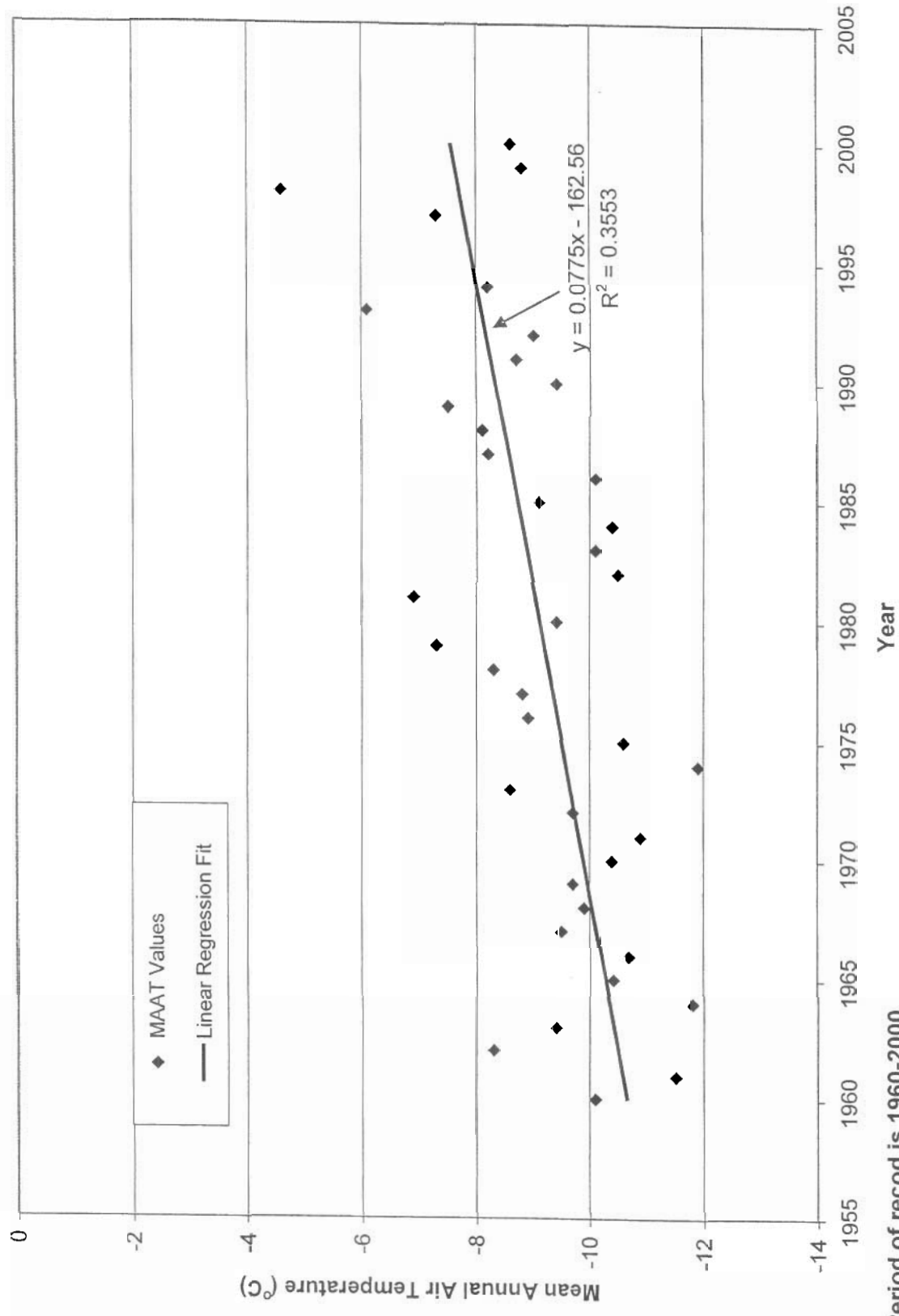


Note: 1) Period of record is 1943-2000

2) One year of data is absent from period of record

DATE: JAN 2004	DRAWN: SLF	PROJECT: ASSESSMENT OF SURFACE CELL AND TEST CELL TALIKS	
 BGC ENGINEERING INC. AN APPLIED EARTH SCIENCES COMPANY Calgary, Alberta Phone: (403) 250-5185		TITLE: YELLOWKNIFE MEAN ANNUAL AIR TEMPERATURES VS. TIME	REV. 0
CLIENT: NANISIVIK MINE, A DIVISION OF CANZINCO LTD.		PROJECT No. 0255-008-03	DWG. No. I-4

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Note: 1) Period of record is 1960-2000
 2) Two years of data absent from period of record

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			PROJECT No. 0255-008-03		DWG. No. I-5			
			CLIENT NANISIVIK MINE, A DIVISION OF CANZINCO LTD.		REV. 0			

APPENDIX II - BOREHOLE LOGS

2002/2003 Borehole Logs – West Twin Disposal Area

Pre-2002 Borehole Logs (Terratech / Tordan)

DRILL HOLE # BGC02-01

Page 1 of 2

Date Drilled: Sept. 22, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: Surface Cell

Elevation: 386.9 m asl

Co-ord: 13435.4N, 17269.9E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. +1.0C, Thermistor Tag #5

Depth (m)	SOIL DESCRIPTION	Core Run	Recovery	Moisture Content % Wp -----X----- Wl 10 20 30 40	Installation / Backfill		Depth (m)
0	Ground Surface 386.9						0
0	TAILINGS 0.0 SAND and SILT, brown, wet, non-plastic, thawed					T/M node @ 0.0 m	0
1	No Sample Recovery					Top 1.0 m of hole filled with bentonite pellets.	1
1	Easy drilling 0 m to 10.5 m Average drill rate: 2 min/ 1.5 m					T/M node @ 1.0 m	1
2						T/M node @ 2.0 m	2
3						Remainder of hole backfilled with tailings slough and silica sand.	3
4						T/M node @ 4.0 m	4
5							5
6							6
7						T/M node @ 6.5 m	7
8							8
9	@ 10.0 m Water pump pressure begins to increase during drilling.					T/M node @ 9.0 m	9
10	376.9 10.0						10



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CLIENT: Nanisivik Mine, a Division of CanZinco Ltd.

PROJECT: Geotechnical Investigation

Final Depth: 19.2 m

DRILL HOLE # BGC02-01

Date Drilled: Sept. 22, 2002
 Contractor & Rig: Mine's Diamond Drill
 Drill Method: Chilled Brine Coring
 Hammer Type: N/A

Location: Surface Cell
 Elevation: 386.9 m asl
 Co-ord: 13435.4N, 17269.9E (Mine Grid)
 Logged by: G. Claypool

Project No. 0255-006-07
 Reviewed by: J. Cassie
 Notes: Brine Temp. +1.0C, Thermistor Tag #5

Depth (m)	SOIL DESCRIPTION	Core Run	Recovery	Moisture Content %				Installation / Backfill		Depth (m)
				Wp	X	WI				
	39.0% Sand 61.0% Silt and Clay				x					
	376.4									
	@ 10.5 m tailings grade to: frozen, N _i , no visible ice									
11		2			x				T/M node @ 11.0 m	11
	44.5% Sand 55.5% Silt and Clay									
12										12
	@ 12.0 m to 13.5 m No sample recovered	3								
13										13
	@ 13.5 m tailings grade to: SILT, trace sand, brown, non-plastic frozen, N _{bn} , no visible ice									
14		4			x				T/M node @ 14.0 m	14
	9.3% Sand 90.7% Silt 0.0% Clay									
	372.0									
15	BEDROCK Slightly weathered, massive, light grey, vuggy porosity, medium strong, DOLOSTONE.	5								15
	14.9									
16	TCR = 33% RQD = 8%									16
17		6								17
	TCR = 100% RQD = 67%									
18										18
	TCR = 93% RQD = 42%	7								
19										19
	367.7									
	End of Borehole									
	19.2									
20										20



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Final Depth: 19.2 m

DRILL HOLE # BGC02-02

Page 1 of 2

Date Drilled: Sept. 23, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: Surface Cell

Elevation: 386.7 m

Co-ord: 13461.2N, 17282.6E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. = -0.5C, Thermistor Tag #1

Depth (m)	SOIL DESCRIPTION	Core Run	Recovery	Moisture Content % Wp -----X----- Wl 10 20 30 40	Installation / Backfill		Depth (m)
0	Ground Surface 386.7						0
0	TAILINGS 0.0 SAND, fine grained, Silty, brown, wet, thawed					Top 0.5 m of hole filled with bentonite pellets.	0
1	No Sample Recovery						1
2	Easy drilling 0 m to 12.2 m Average drill rate: 2 min/ 1.5 m						2
3						Remainder of hole backfilled with tailings slough and silica sand.	3
4						T/M node @ 4.0 m	4
5							5
6							6
7		1					7
8							8
9						T/M node @ 9.0 m	9
10							10



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PROJECT: Geotechnical Investigation

Final Depth: 19.2 m

DRILL HOLE # BGC02-02

Date Drilled: Sept. 23, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: Surface Cell

Elevation: 386.7 m

Co-ord: 13461.2N, 17282.6E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. = -0.5C, Thermistor Tag #1

Depth (m)	SOIL DESCRIPTION	Core Run	Recovery	Moisture Content %				Installation / Backfill		Depth (m)
				Wp	X	Wl				
				10	20	30	40			
11										11
12										12
13	78.7% Sand 21.3% Silt and Clay @ 12.2 m first increase in water pump pressure observed. @ 13.1 m tailings grade to: SILT, Sandy, brown, non-plastic, frozen, N _r , no visible ice	374.5 12.2 373.6 13.1			x					13
14	13.5% Sand 86.5% Silt 0.0% Clay	372.1 14.6	2		x					14
15	LAKE BED SEDIMENTS SAND - fine grained, trace silt, trace gravel, red, wet.	371.5 15.2	3		x					15
16	92.4% Sand 7.6% Silt and Clay BEDROCK Slightly weathered, massive, light grey, vuggy porosity, medium strong, DOLOSTONE		4							16
17	Core Run 4 TCR = 78% RQD = 40% $I_{s(50) \text{ diametral}} = 5.2 \text{ MPa}$ $I_{s(50) \text{ axial}} = 9.9 \text{ MPa}$		5							17
18	Core Run 6 TCR = 93% RQD = 42%		6							18
19		367.5 19.2								19
20	End of Borehole									20

T/M node @ 11.5 m

T/M node @ 16.5 m

T/M node @ 19.0 m

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PROJECT: Geotechnical Investigation

Final Depth: 19.2 m

DRILL HOLE # BGC02-03

Date Drilled: Sept. 23, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: Surface Cell

Elevation: 386.4 m asl

Co-ord: 13458.5N, 17316.3E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. = -0.5C, Thermistor Tag #4

Depth (m)	SOIL DESCRIPTION	Core Run	Recovery	Moisture Content %		Installation / Backfill		Depth (m)
				Wp	Wl			
0	Ground Surface 386.4							0
0	TAILINGS SILT, Sandy, brown, wet, non-plastic, thawed.							0
1	No Sample Recovery							1
2	Easy drilling 0 m to 14.6 m Average drill rate: 2 min/ 1.5 m							2
3								3
4								4
5								5
6								6
7								7
8								8
9								9
10								10


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PROJECT: Geotechnical Investigation

Final Depth: 19.2 m

DRILL HOLE # BGC02-03

Page 2 of 2

Date Drilled: Sept. 23, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: Surface Cell

Elevation: 386.4 m asl

Co-ord: 13458.5N, 17316.3E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. = -0.5C, Thermistor Tag #4

Depth (m)	SOIL DESCRIPTION	Core Run	Recovery	Moisture Content %				Installation / Backfill		Depth (m)
				Wp	X		WI			
				10	20	30	40			



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PROJECT: Geotechnical Investigation

Final Depth: 19.2 m

DRILL HOLE # BGC02-04

Date Drilled: Sept. 23, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: Surface Cell

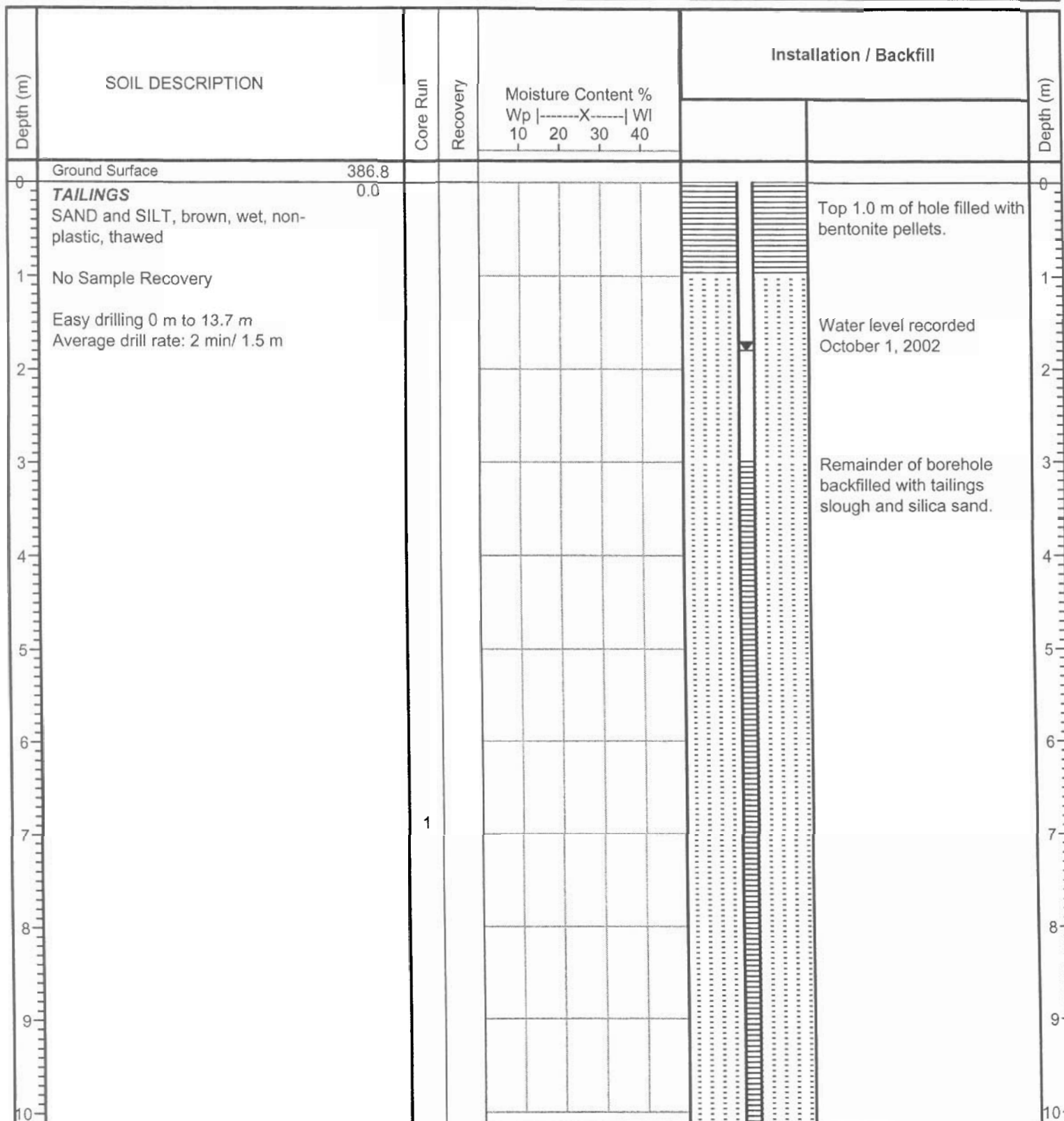
Elevation: 386.8 m

Co-ord: 13450.6N, 17281.7E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. = -0.5C,
25 mm diameter PVC standpipe piezometer installed.
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CLIENT: Nanisivik Mine, a Division of CanZinco Ltd.

PROJECT: Geotechnical Investigation

Final Depth: 13.7 m

DRILL HOLE # BGC02-04

Date Drilled: Sept. 23, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: Surface Cell

Elevation: 386.8 m

Co-ord: 13450.6N, 17281.7E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. = -0.5C,

Depth (m)	SOIL DESCRIPTION	Core Run	Recovery	Moisture Content %		Installation / Backfill		Depth (m)
				Wp -----X----- Wl				
				10	20	30	40	
11								
12								
13								
14	End of Borehole	373.1	13.7					
15								
16								
17								
18								
19								
20								


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PROJECT: Geotechnical Investigation

Final Depth: 13.7 m

DRILL HOLE # BGC02-05

Page 1 of 2

Date Drilled: Sept. 23, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: Surface Cell

Elevation: 386.5 m asl

Co-ord: 13461.9N, 17305.2E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. = -0.5C

25 mm diameter PVC standpipe installed.

Depth (m)	SOIL DESCRIPTION	Core Run	Recovery	Moisture Content % Wp -----X----- Wl 10 20 30 40	Installation / Backfill		Depth (m)
0	Ground Surface 386.5						0
0	TAILINGS 0.0 SAND and SILT, brown, wet, non-plastic, thawed					Top 1.0 m of hole filled with bentonite pellets.	0
1	No Sample Recovery						1
2	Easy drilling 0 m to 12.2 m Average drill rate: 2 min/ 1.5 m					Water level recorded October 1, 2002.	2
3							3
4						Remainder of borehole backfilled with tailings slough and silica sand.	4
5							5
6		1					6
7							7
8							8
9							9
10							10



BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

Calgary, AB

Phone (403) 250-5185

CLIENT: Nanisivik Mine, a Division of CanZinco Ltd.

PROJECT: Geotechnical Investigation

Final Depth: 12.2 m

DRILL HOLE # BGC02-05

Page 2 of 2

Date Drilled: Sept. 23, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: Surface Cell

Elevation: 386.5 m asl

Co-ord: 13461.9N, 17305.2E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. = -0.5C

Depth (m)	SOIL DESCRIPTION	Core Run	Recovery	Moisture Content %		Installation / Backfill		Depth (m)
				Wp	WI			
				10	20	30	40	
11								11
12								12
13								13
14								14
15								15
16								16
17								17
18								18
19								19
20								20

End of Borehole

374.3
12.2



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