

BGC Project Memorandum

To: Ken Bocking – Golder Associates

From: Geoff Claypool – BGC Engineering Inc.

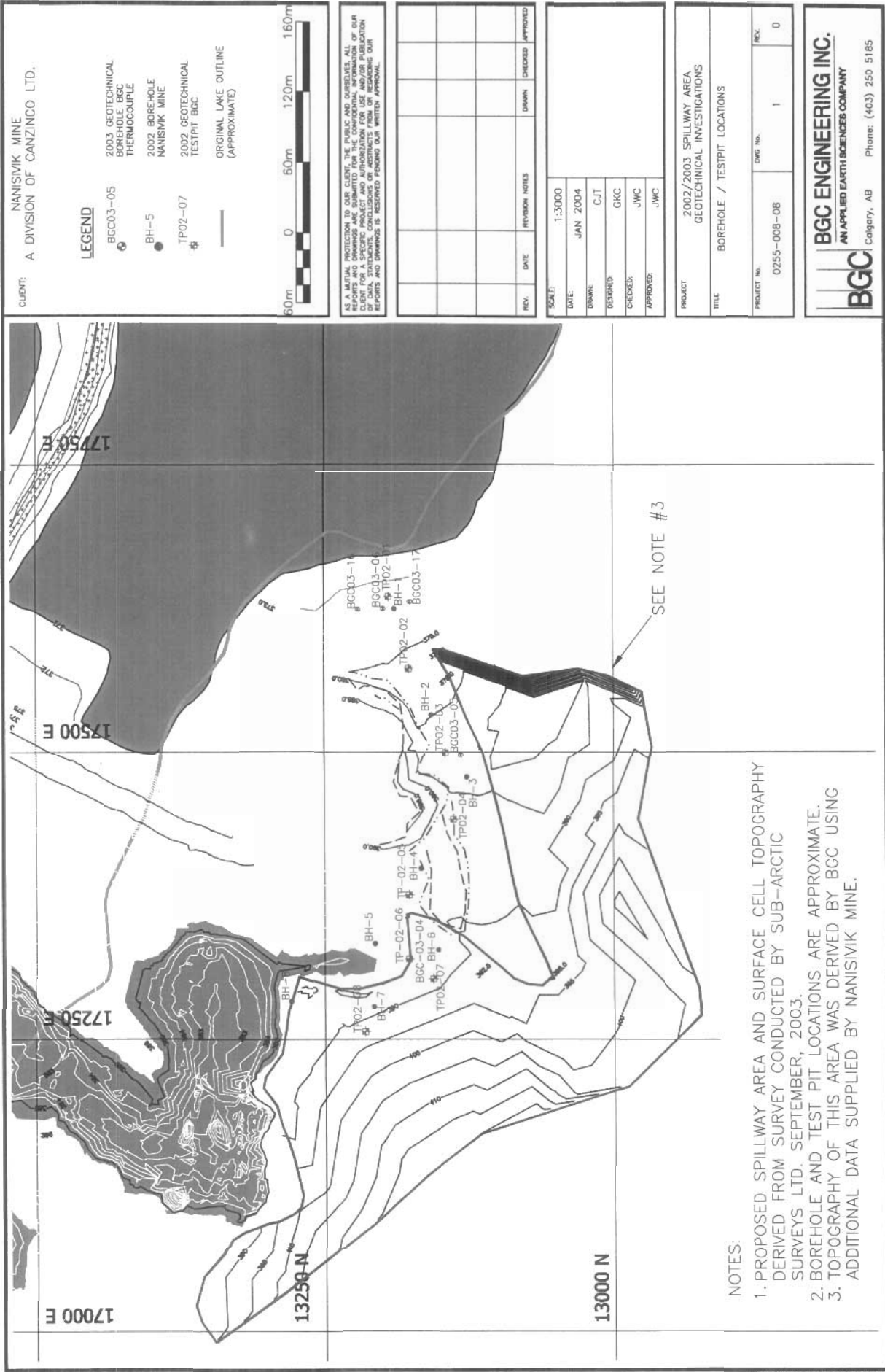
Date: February 6, 2004

Subject: Geotechnical Investigation of Proposed Spillway Area

Proj. No: 0255-008-08

FIGURES

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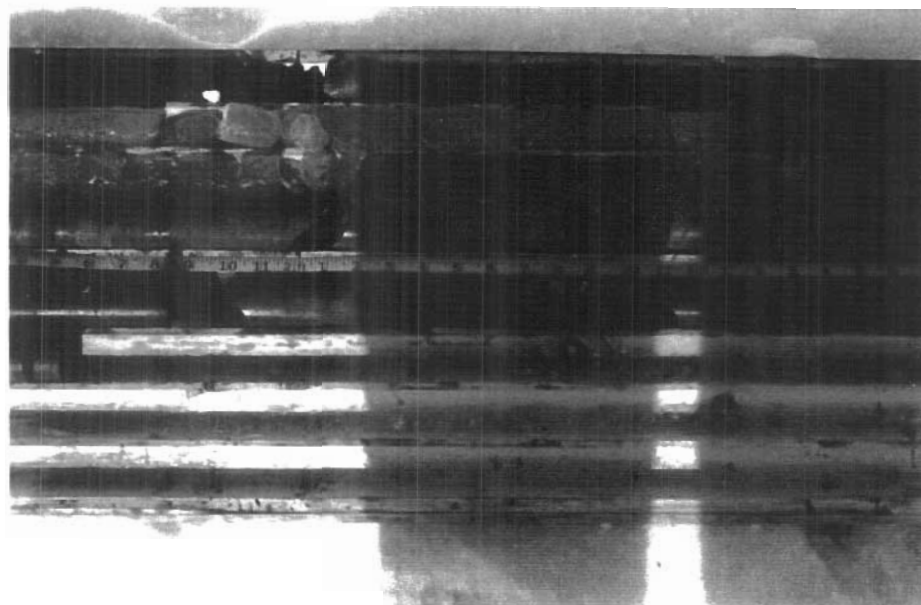
~0m



~9m

Core recovery BGC03-05.
Proposed spillway area.

~0m



← Note Ice

~9m

Core recovery BGC03-06.
Proposed spillway area.

AS A MUTUAL PROTECTION TO OUR CLIENT, THE PUBLIC AND OURSELVES, ALL REPORTS AND DRAWINGS ARE SUBMITTED FOR THE CONFIDENTIAL INFORMATION OF OUR CLIENT FOR A SPECIFIC PROJECT AND AUTHORIZATION FOR USE AND/OR PUBLICATION OF DATA STATEMENTS CONCLUSIONS OR ABSTRACTS FROM OR REGARDING OUR REPORTS AND DRAWINGS IS RESERVED PENDING OUR WRITTEN APPROVAL.

SCALE:	N/A	DESIGNED:	KFM
DATE:	JANUARY 2004	CHECKED:	KFM
DRAWN:	SLF	APPROVED:	JWC

CLIENT:

**NANISIVIK MINE, A DIVISION
OF CANZINCO LTD.**

BGC

BGC Engineering Inc.

AN APPLIED EARTH SCIENCES COMPANY

Calgary, Alberta.

Phone: (403) 250-5185

PROJECT

**2002/2003 SPILLWAY AREA
GEOTECHNICAL INVESTIGATIONS**

TITLE

GROUND CONDITIONS -1

PROJECT No.

0255-008-08

DWG. No.

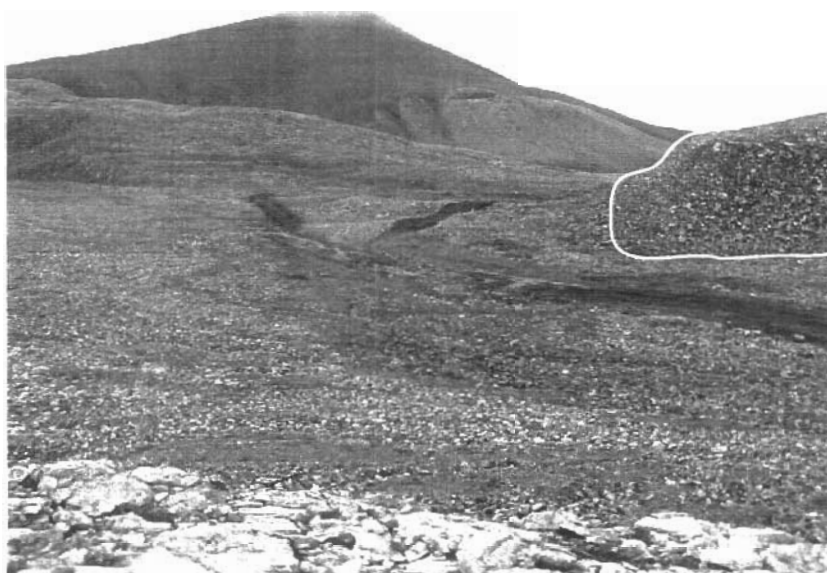
2

REV.

0



Photo of sidewall of test pit from spillway area investigation in 2002. Note variety of grain sizes.



View looking upslope (west) in proposed spillway area. Note location of dolostone outcrop on right side of photo.

AS A MUTUAL PROTECTION TO OUR CLIENT, THE PUBLIC AND OURSELVES, ALL REPORTS AND DRAWINGS ARE SUBMITTED FOR THE CONFIDENTIAL INFORMATION OF OUR CLIENT FOR A SPECIFIC PROJECT AND AUTHORIZATION FOR USE AND/OR PUBLICATION OF DATA STATEMENTS CONCLUSIONS OR ABSTRACTS FROM OR REGARDING OUR REPORTS AND DRAWINGS IS RESERVED PENDING OUR WRITTEN APPROVAL.

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PROJECT

**2002/2003 SPILLWAY AREA
GEOTECHNICAL INVESTIGATIONS**

TITLE

GROUND CONDITIONS - 2

PROJECT No.

0255-008-08

DWG. No.

3

REV.

0

BGC Project Memorandum

To: Ken Bocking – Golder Associates

From: Geoff Claypool – BGC Engineering Inc.

Date: February 6, 2004

Subject: Geotechnical Investigation of Proposed Spillway Area

Proj. No: 0255-008-08

APPENDIX I BOREHOLE LOGS

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ROCK CORE LOG

Sheet: 1 of 1

Project Number: 0255-006-03 Boring Number: BH-01 Elevation: 372.63 m
 Project: Spillway Alignment Investigation Co-ords: 13189.4N / 17624.7E (Mine Grid) Datum: N/A
 Date: May, 2002/ July, 2002 Drilling Contractor: Nanisivik Mine Reference Point:
 Logged By: Neil B. (NML)/ J. Cassie (BGC) Drilling Method Diamond Drill/ BQ Coring Inclination: Vertical
 Water Level: N/A and Equipment: Chilled Brine Start/Finish: N/A

ELEVATION (m)	DEPTH (m)	CORE RUN	T.C.R. (%)	S.C.R. (%)	DISCONTINUITIES			LITHOLOGY	STRENGTH DATA			COMMENTS
					RQD (%)	Fract. per 0.3m	Angle wrt Core Axis		Strength Index	Weathering Index	Point Load Index	
372.6	0.0							Top of Surface				
	1.0							TILL GRAVEL, with Sand and Cobbles, trace Silt.				
	2.0							0-.75 m - Mostly quartz sandstone with bits of red sandstone and hematite.				
	3.0							.75 - 2.70 m - Predominantly pebbles of sandstone, quartz sandstone, dolostone and shale.				
369.9								@ 2.70 m - Ice observed				
	4.0							@ 2.75 m grades to: SAND and SILT, Gravelly, trace Cobbles, red brown, oxidized, visible ice.				
	5.0							2.75 - 3.66 m - Fragments of quartz sandstone and dolostone.				
366.8								3.66 - 5.8 m - Predominantly red sandstone (Sand), shale and fragments of quartz sandstone.				
366.5	6.0							@ 4.60 m - Ice observed				
	7.0							FSBR (DOLOSTONE) 15 cm of intact dolostone and then small fractured bits of dolostone in red clay, sand and the grey dolomud.				
	8.0							INTACT BR (DOLOSTONE) Dark grey to black dolostone with tiny white clasts of dolorudite.				
	9.0							@ 6.70 m - Ice observed				
362.6	10.0											



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Project No.: 0255-006-03

Borehole No.: BH-01

Final Depth: 10 m

ROCK CORE LOG

Sheet: 1 of 1

Project Number: 0255-006-03 Boring Number: BH-02 Elevation: 379.36 m
 Project: Spillway Alignment Investigation Co-ords: 13157.9N/ 17532.2E (Mine Grid) Datum: N/A
 Date: May, 2002/ July, 2002 Drilling Contractor: Nanisivik Mine Reference Point: _____
 Logged By: Neil B. (NML)/ J. Cassie (BGC) Drilling Method Diamond Drill, BQ Core Inclination: Vertical
 Water Level: N/A and Equipment: Chilled Brine Start/Finish: N/A

ELEVATION (m)	DEPTH (m)	CORE RUN	T.C.R. (%)	S.C.R. (%)	DISCONTINUITIES			LITHOLOGY	STRENGTH DATA			COMMENTS
					Fract. per 0.3m	Angle wrt Core Axis	DEPTH, TYPE, ORIENTATION, ROUGHNESS, PLANARITY, INFILLING MATERIAL AND THICKNESS, SURFACE STAINING, AND TIGHTNESS		Strength Index	Weathering Index	Point Load Index	
379.6	0.0				2	6	30	Top of Surface				
	1.0							<u>TILL</u> GRAVEL, Sandy, with Cobbles, trace Silt. Composition of material consists of : quartz sandstone, red sandstone, hematite, dolostone, and minor shale.				
376.9	3.0							<u>FSBR (DOLOSTONE)</u> Light coloured recrystallized dolostone with moderate dark stringers. Moderate solution pitting, vugs lined with small dolostone crystals. 3.35-3.8 m - red sandstone and clay with fragments of quartz sandstone and hematite 4.72-4.88 m - core is fractured and there is some red sandstone/mudstone				
374.8	5.0							<u>INTACT BR (DOLOSTONE)</u> Grey dolostone varying between finely laminated and slightly mottled. Moderate solution pitting.	R4	SW		
	6.0											
	7.0											
	8.0											
	9.0											
369.6	10.0											



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Project No.: 0255-006-03

Borehole No.: BH-02

Final Depth: 10 m

ROCK CORE LOG

Sheet: 1 of 1

Project Number: 0255-006-03 Boring Number: BH-03 Elevation: 384.05 m
 Project: Spillway Alignment Investigation Co-ords: 13127.1N / 17477.9E (Mine Grid) Datum: N/A
 Date: May, 2002/ July, 2002 Drilling Contractor: Nanisivik Mine Reference Point: _____
 Logged By: Neil B. (NML)/ J. Cassie (BGC) Drilling Method Diamond Drill/ BQ Core Inclination: Vertical
 Water Level: N/A and Equipment: Chilled Brine Start/Finish: N/A

ELEVATION (m)	DEPTH (m)	CORE RUN	T.C.R. (%)	S.C.R. (%)	DISCONTINUITIES			LITHOLOGY	STRENGTH DATA			COMMENTS
					RQD (%)	Fract. per 0.3m	Angle wrt Core Axis		Strength Index	Weathering Index	Point Load Index	
384.1	0.0							Top of Surface				
	1.0							<u>TILL</u> GRAVEL, Sandy, with Cobbles, trace Silt. Composition of materials consists of: quartz sandstone, red sandstone, hematite, dolostone and minor shale - 0-.61m - predominantly quartz sandstone -.61-2.74m - crumbled red sandstone - 2.74-5.5m - chunks of hematite, quartz sandstone and dolostone with red sand/clay and grey dolomud				
378.6	6.0							<u>FSBR (DOLOSTONE)</u> Brecciated clasts (up to 1.5") of quartz and dolostone in red clay and grey dolomud 6.86-7.32m - 6" of dolostone, 7" of red hematite, then dolostone with gravel to 7.32m				
376.1	8.0							<u>INTACT BR (DOLOSTONE)</u> Light grey recrystallized, mottled dolostone with dark stringers. 7.32-10.0m - perfect recovery Fractures with red staining at 7.62m		SW		
374.1	10.0											



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Project No.: 0255-006-03

Borehole No.: BH-03

Final Depth: 10 m

ROCK CORE LOG

Sheet: 1 of 1

Project Number: 0255-006-03 Boring Number: BH-04 Elevation: 386.73 m
 Project: Spillway Alignment Investigation Co-ords: 13166.7N / 17398.0E (Mine Grid) Datum: N/A
 Date: May, 2002/ July, 2002 Drilling Contractor: Nanisivik Mine Reference Point: _____
 Logged By: Neil B. (NML)/ J. Cassie (BGC) Drilling Method Diamond Drill/ BQ Core Inclination: Vertical
 Water Level: N/A and Equipment: Chilled Brine Start/Finish: N/A

ELEVATION (m)	DEPTH (m)	CORE RUN	T.C.R. (%)	S.C.R. (%)	DISCONTINUITIES			LITHOLOGY	STRENGTH DATA			COMMENTS
					RQD (%)	Fract. per 0.3m	Angle wrt Core Axis		Strength Index	Weathering Index	Point Load Index	
386.7	0.0							Top of Surface				
								<u>TILL</u> SAND and GRAVEL, Cobbley, trace Silt, brown with red oxidation staining.				
385.5	1.0							Composition of materials consist of: Red sandstone, dolostone and quartz sandstone.				
	2.0							<u>FSBR (DOLOSTONE)</u> Fractured dolostone with iron staining and minor dolomud on fracture surfaces.				
384.3								<u>INTACT BR (DOLOSTONE)</u> Light grey dolostone and partially recrystallized dolostone. Minor solution pitting.				
	3.0											
	4.0											
	5.0											
	6.0											
	7.0											
	8.0											
	9.0											
376.7	10.0											



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Project No.: 0255-006-03
 Borehole No.: BH-04
 Final Depth: 10 m

ROCK CORE LOG

Sheet: 1 of 1

Project Number: 0255-006-03 Boring Number: BH-05 Elevation: 385.91 m
 Project: Spillway Alignment Investigation Co-ords: 13206.7N / 17332.6E (Mine Grid) Datum: N/A
 Date: May, 2002/ July, 2002 Drilling Contractor: Nanisivik Mine Reference Point: _____
 Logged By: Neil B. (NML)/ J. Cassie (BGC) Drilling Method Diamond Drill/ BQ Core Inclination: Vertical
 Water Level: N/A and Equipment: Chilled Brine Start/Finish: N/A

ELEVATION (m)	DEPTH (m)	CORE RUN	T.C.R. (%)	S.C.R. (%)	DISCONTINUITIES			LITHOLOGY	STRENGTH DATA			COMMENTS	
					RQD (%)	Fract. per 0.3m	Angle wrt Core Axis		DEPTH, TYPE, ORIENTATION, ROUGHNESS, PLANARITY, INFILLING MATERIAL AND THICKNESS, SURFACE STAINING, AND TIGHTNESS	Strength Index	Weathering Index		Point Load Index
385.9	0.0				2	6	30		Top of Surface				
383.2	1.0								<u>TAILINGS</u> SILT and SAND, dark grey. Both horizontal and verticle joints observed upon thaw, probably indicating minor ice lenses.				
	2.0												
	3.0								<u>TILL</u> GRAVEL and SAND, Silty, with Cobbles, red brown. Composition of materials consists of: Quartz sandstone, dolostone, red sandstone and clay.				
381.0	4.0												
375.9	5.0								<u>INTACT BR (DOLOSTONE)</u> Light grey, recrystallized dolostone, mottled with dark grey stringers.	SW			
	6.0												
	7.0												
	8.0												
	9.0												
	10.0												



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Project No.: 0255-006-03

Borehole No.: BH-05

Final Depth: 10 m

ROCK CORE LOG

Sheet: 1 of 1

Project Number: 0255-006-03 Boring Number: BH-06 Elevation: 388.71 m
 Project: Spillway Alignment Investigation Co-ords: 13152.1N / 17327.2E (Mine Grid) Datum: N/A
 Date: May, 2002/ July, 2002 Drilling Contractor: Nanisivik Mine Reference Point: _____
 Logged By: Neil B. (NML)/ J. Cassie (BGC) Drilling Method Diamond Drill / BQ Core Inclination: Vertical
 Water Level: N/A and Equipment: Chilled Brine Start/Finish: N/A

ELEVATION (m)	DEPTH (m)	CORE RUN	T.C.R. (%)	S.C.R. (%)	DISCONTINUITIES			LITHOLOGY	STRENGTH DATA			COMMENTS
					RQD (%)	Fract. per 0.3m	Angle wrt Core Axis		Strength Index	Weathering Index	Point Load Index	
388.7	0.0							Top of Surface				
	1.0							<u>TILL</u> SAND and GRAVEL, Silty, with Cobbles, red brown, appeared very wet possibly indicating excess ice content.				
386.9	2.0							Composition of materials consists of: Dolostone, quartz sandstone and hematite in red sandstone and sand.				
	3.0							<u>FSBR (DOLOSTONE)</u> Red-brown sand on joint surfaces. No major till inclusions observed.				
385.4	4.0							<u>INTACT BR (DOLOSTONE)</u> Light grey, recrystallized and partially recrystallized dolostone only moderately mottled, minor dark stringers.	R4	SW		
	5.0											
	6.0											
	7.0											
	8.0											
	9.0											
378.7	10.0											



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Project No.: 0255-006-03

Borehole No.: BH-06

Final Depth: 10 m

ROCK CORE LOG

Sheet: 1 of 1

Project Number: 0255-006-03 Boring Number: BH-07 Elevation: 392.01 m
 Project: Spillway Alignment Investigation Co-ords: 13207.9N / 17277.9E (Mine Grid) Datum: N/A
 Date: May, 2002/ July, 2002 Drilling Contractor: Nanisivik Mine Reference Point: _____
 Logged By: Neil B. (NML)/ J. Cassie (BGC) Drilling Method Diamond Drill / BQ Coring Inclination: Vertical
 Water Level: N/A and Equipment: Chilled Brine Start/Finish: N/A

ELEVATION (m)	DEPTH (m)	CORE RUN	T.C.R. (%)	S.C.R. (%)	DISCONTINUITIES			LITHOLOGY	STRENGTH DATA			COMMENTS
					RQD (%)	Fract. per 0.3m	Angle wrt Core Axis		Strength Index	Weathering Index	Point Load Index	
392.0	0.0				2	6	30	Top of Surface				
391.4	0.6							<u>TILL</u> Fractured dolostone with red oxidation staining and clay.				
	1.0							<u>FSBR (DOLOSTONE)</u> Coarse sand on fracture surfaces.				
	2.0											
	3.0											
388.3	3.6							<u>INTACT BR (DOLOSTONE)</u> Light grey, recrystallized and partially recrystallized dolostone with mottled dark stringers and zones of laminations which are at 80 degrees TCA.				
	4.0											
	5.0											
	6.0											
	7.0											
	8.0											
	9.0											
382.0	10.0											



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Project No.: 0255-006-03

Borehole No.: BH-07

Final Depth: 10 m

ROCK CORE LOG

Sheet: 1 of 1

Project Number: 0255-006-03 Boring Number: BH-08 Elevation: 386.27 m
 Project: Spillway Alignment Investigation Co-ords: 13279.2N / 17283.7E (Mine Grid) Datum: N/A
 Date: May, 2002/ July, 2002 Drilling Contractor: Nanisivik Mine Reference Point: _____
 Logged By: Neil B. (NML)/ J. Cassie (BGC) Drilling Method Diamond Drill / BQ Coring Inclination: Vertical
 Water Level: N/A and Equipment: Chilled Brine Start/Finish: N/A

ELEVATION (m)	DEPTH (m)	CORE RUN	T.C.R. (%)	S.C.R. (%)	DISCONTINUITIES			LITHOLOGY	STRENGTH DATA			COMMENTS
					RQD (%)	Fract. per 0.3m	Angle wrt Core Axis		Strength Index	Weathering Index	Point Load Index	
386.3	0.0							Top of Surface				
385.7	1.0							<u>TILL</u> Shale gravel in first 30 cm, Dolostone fragments to 60 cm.				
384.4	2.0							<u>FSBR (DOLOSTONE)</u> Red sand on fracture surfaces.				
	3.0							<u>INTACT BR (DOLOSTONE)</u> Light grey, recrystallized dolostone with grey stringers and localized brecciation.	SW			
	4.0											
	5.0											
	6.0											
	7.0											
	8.0											
	9.0											
376.3	10.0											



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Project No.: 0255-006-03

Borehole No.: BH-08

Final Depth: 10 m

ROCK CORE LOG

Sheet: 1 of 1

Project Number: 0255-006-03 Boring Number: BH-09 Elevation: N/A
 Project: Spillway Alignment Investigation Co-ords: N/A Datum: N/A
 Date: May, 2002/ July, 2002 Drilling Contractor: Nanisivik Mine Reference Point:
 Logged By: Neil B. (NML)/ J. Cassie (BGC) Drilling Method Diamond Drill / BQ Core Inclination: Vertical
 Water Level: N/A and Equipment: Chilled Brine Start/Finish: N/A

ELEVATION (m)	DEPTH (m)	CORE RUN	T.C.R. (%)	S.C.R. (%)	DISCONTINUITIES			LITHOLOGY	STRENGTH DATA			COMMENTS
					RQD (%)	Fract. per 0.3m	Angle wrt Core Axis		Strength Index	Weathering Index	Point Load Index	
	0.0							Top of Surface				
	1.0							<u>TILL</u> Quartz sandstone fragments for first 60 cm then dolostone fragments to 1.5 m.				
	2.0							<u>FSBR (DOLOSTONE)</u> Coarse sand and fine gravel on joint surfaces.				
	3.0							<u>INTACT BR (DOLOSTONE)</u> Light grey rextal dolostone with dark stringers, moderate solution pitting.	R4	SW		
	4.0											
	5.0											
	6.0											
	7.0											
	8.0											
	9.0											
	10.0											



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Project No.: 0255-006-03
 Borehole No.: BH-09
 Final Depth: 10 m

TEST PIT# TP02-01

Date Excavated: July 25, 2002
Contractor: Nanisivik Mine
Excavator: John Deere 892E LC

Location: Proposed Spillway Area
Elevation: 372.5 m (approximately)
Co-ord: 13194N / 17635E (Mine Grid)
Logged by: Jim Cassie

Project No. 0255-006-03

Reviewed by: J. Cassie

Notes: Elevation and Co-ordinates approximated

Depth (m)	SOIL DESCRIPTION	Sample Number	Sample Type	Recovery	USC	SPT 'N'	Moisture Content %		Pocket Penetrometer		Installation / Backfill	Depth (m)
							Wp ——X—— Wl		kPa	SPT (N)		
							10 20 30 40		100 300	Blows/ft		
0	Ground Surface											0
0.0	TILL Gravel and Sand, some Cobbles and trace Silt, wet, compact, red brown, occasional boulders.											
	S-2 @ 0.7m, Gravel and Sand, Cobbly, trace Silt (Nbn)											
	45.6% Gravel											
	46.5% Sand											
	7.9% Silt and Clay	1					x					
1	S-1 @ 1.4m, Sand, with Gravel, trace Silt (Nbn)											1
	15.1% Gravel											
	77.9% Sand											
	7.0% Silt and Clay											
	Water flowing in at 1.4 m.	2					x					
	Backhoe refusal at 1.4 m on permafrost.											
1.4	Bottom of Test Pit											
2												2
3												3
4												4
5												5

Test pit backfilled using excavated material.



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CLIENT: Nanisivik Mine, a Division of CanZinco Ltd.
 PROJECT: Proposed Spillway Alignment Investigation
 Final Depth: 1.4 m

TEST PIT# TP02-02

Page 1 of 1

Date Excavated: July 25, 2002
 Contractor: Nanisivik Mine
 Excavator: John Deere 892E LC

Location: Proposed Spillway Area
 Elevation: 377 m (approximately)
 Co-ord: 13177N / 17572E (Mine Grid)
 Logged by: Jim Cassie

Project No. 0255-006-03

Reviewed by: J. Cassie

Notes: Elevation and Co-ordinates approximated

Depth (m)	SOIL DESCRIPTION	Sample Number	Sample Type	Recovery	USC	SPT 'N'	Moisture Content: %		Pocket Penetrometer		Installation / Backfill	Depth (m)
							Wp -----X----- Wl		kPa	SPT (N)		
							10 20 30 40		100 300	Blows/ft		
0	Ground Surface	377.0										0
0.0	TILL Gravel and Sand, some Cobbles and trace Silt. Gravel is subrounded to subangular, fragments are Sandstone, Dolostone, wet, compact, red-brown, oxidized, visible ice crystals @ 5%, water flow into pit bottom.											0
1	S-3 @ 1.6 m Gravel and Sand, trace Silt, Vx=5-10%. 56.1% Gravel 35.5% Sand 8.4% Silt and Clay											1
	Backhoe refusal @ 1.6 m on permafrost.	375.4	3				x					
1.6	Bottom of Test Pit											
2												2
3												3
4												4
5												5

Test pit backfilled using excavated material.



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CLIENT: Nanisivik Mine, a Division of CanZnco Ltd.
 PROJECT: Proposed Spillway Alignment Investigation
 Final Depth: 1.6 m

TEST PIT# TP02-03

Page 1 of 1

Date Excavated: July 25, 2002
Contractor: Nanisivik Mine
Excavator: John Deere 892E LC

Location: Proposed Spillway Area
Elevation: 382 m (approximately)
Co-ord: 13145N / 17499E (Mine Grid)
Logged by: Jim Cassie

Project No. 0255-006-03
Reviewed by: J. Cassie
Notes: Elevation and Co-ordinates approximated

Depth (m)	SOIL DESCRIPTION	Sample Number	Sample Type	Recovery	USC	SPT 'N'	Moisture Content %		Pocket Penetrometer		Installation / Backfill	Depth (m)
							Wp -----X----- Wl		kPa			
0	Ground Surface	382.0							100	300		0
0	TILL Gravel and Sand, Cobbly, trace Silt, wet, red brown, oxidized, Gravel is subrounded to subangular, fragments are Dolostone and Sandstone. Backhoe refusal at 0.8 m. Water flowing into pit bottom estimated @ 5 to 10 L/sec.	0.0									Test pit backfilled using excavated material.	0
1	Bottom of Test Pit	381.2										1
2												2
3												3
4												4
5												5



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CLIENT: Nanisivik Mine, a Division of CanZinco Ltd.
 PROJECT: Proposed Spillway Alignment Investigation
 Final Depth: 0.8 m