

DRILL HOLE # BGC02-06

Page 1 of 2

Date Drilled: Sept. 24, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: Surface Cell

Elevation: 386.7 m asl

Co-ord: 13411.5N, 17385.4E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. = 0.0C, Thermistor Tag #2

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
	SHALE (FILL) 0.0						
	GRAVEL, coarse, trace Sand, black. 386.2						
	0.5						
1	TAILINGS						1
	SILT, with Sand, brown, frozen, N _{bn} , no visible ice						
2	@ 3.8 m	1					2
	14.6% Sand						
	85.4% Silt and Clay						
	Frozen Bulk Density = 2675.0 kg/m ³						
3	@ 4.0 m grades to:						3
	SAND and SILT, brown, frozen, well bonded.						
	48.2% Sand						
	51.8% Silt and Clay						
	Frozen Bulk Density = 2525.1 kg/m ³						
4	382.7						4
	Hard drilling, no recovery. 4.0						
5		2					5
	381.2						
6	Hard drilling, no recovery. 5.5						6
7		3					7
8							8
	378.2						
9	Easy drilling, no recovery. 8.5						9
10		4					10

Top 0.5 m of hole filled with bentonite pellets.

Remainder of borehole backfilled with tailings slough and silica sand.

T/M node at 3.0m.

T/M node at 8.0m.



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Calgary, AB

Phone (403) 250-5185

CLIENT: Nanisivik Mine, a Division of CanZinco Ltd.

PROJECT: Geotechnical Investigation

Final Depth: 18.0 m

DRILL HOLE # BGC02-06

Date Drilled: Sept. 24, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: Surface Cell

Elevation: 386.7 m asl

Co-ord: 13411.5N, 17385.4E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. = 0.0C, Thermistor Tag #2

Depth (m)	SOIL DESCRIPTION	Core Run	Recovery	Moisture Content %				Installation / Backfill		Depth (m)
				Wp	X	WI				
				10	20	30	40			
11										11
	375.2									
12	Harder drilling 11.5 m to 14.6 m. 1.4 m tailings core recovery when tube pulled at 14.6 m.									12
13	@ 14.5m grades to: SILT, trace Sand, brown, non-plastic, frozen, N _{bn} , no visible ice.	5								13
14	4.3% Sand 95.7% Silt 0.0% Clay Bulk Density = 2541.9 kg/m ³									14
	372.1									
15	BEDROCK Slightly weathered, massive, light grey, vuggy porosity, medium strong, DOLOSTONE	6								15
16	@15.5 m lost circulation, had to run casing to 16.2m.									16
17	Core Run #6 TCR = 50% RQD = 30%									17
	Core Run #7 TCR = 83% RQD = 63%	7								
	I _{s(50)} diametral = 4.6 MPa I _{s(50)} axial = 9.5 MPa									
18	368.7									18
	End of Borehole									
19	18.0									19
20										20


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PROJECT: Geotechnical Investigation

Final Depth: 18.0 m

DRILL HOLE # BGC02-07

Date Drilled: Sept. 24, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: Surface Cell

Elevation: 386.5 m

Co-ord: 13502.1N, 17334.1E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. = 0.0C

Depth (m)	SOIL DESCRIPTION	Core Run	Recovery	Moisture Content %		Installation / Backfill		Depth (m)
				Wp	WI			
0	Ground Surface 386.5							0
	SHALE (FILL) 0.0							
	GRAVEL, trace Sand, black. 386.0							
	TAILINGS 0.5							
1	SAND, some Silt, wet, brown. 385.5							1
	Fluid return to top of borehole. 1.0							
	@ 1.0 m to 4.3							
	No fluid return in borehole.							
	Constant drill rate.							
2	No pump pressure.							2
	No recovery.							
3								3
4								4
	382.2							
	@ 4.3 m to 10.4 m 4.3							
5	Encountered alternating 0.3 m thick layers of hard and soft material.							5
	No fluid return.							
	No recovery.							
	Small fluctuations in pump pressure.							
6								6
7								7
8								8
9								9
10								10


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CLIENT: Nanisivik Mine, a Division of CanZinco Ltd.

PROJECT: Geotechnical Investigation

Final Depth: 24.7 m

DRILL HOLE # BGC02-07

Date Drilled: Sept. 24, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: Surface Cell

Elevation: 386.5 m

Co-ord: 13502.1N, 17334.1E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. = 0.0C

Depth (m)	SOIL DESCRIPTION	Core Run	Recovery	Moisture Content %				Installation / Backfill		Depth (m)
				Wp	-----X-----	WI				
				10	20	30	40			
11	376.1 @ 10.4 m to 14.9 m Slower drill rate. Borehole filled with drilling fluid.									11
12										12
13										13
14										14
15	371.6 @ 14.9 m to 22.6 m Drilling rate increases to: 1.5m/ 1min. No fluid return. No recovery.									15
16										16
17										17
18										18
19										19
20		2								20


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CLIENT: Nanisivik Mine, a Division of CanZinco Ltd.

PROJECT: Geotechnical Investigation

Final Depth: 24.7 m

DRILL HOLE # BGC02-07

Date Drilled: Sept. 24, 2002
 Contractor & Rig: Mine's Diamond Drill
 Drill Method: Chilled Brine Coring
 Hammer Type: N/A

Location: Surface Cell
 Elevation: 386.5 m
 Co-ord: 13502.1N, 17334.1E (Mine Grid)
 Logged by: G. Claypool

Project No. 0255-006-07
 Reviewed by: J. Cassie
 Notes: Brine Temp. = 0.0C

Depth (m)	SOIL DESCRIPTION	Core Run	Recovery	Moisture Content %				Installation / Backfill		Depth (m)
				Wp	X	WI				
				10	20	30	40			
21										21
22										22
23										23
24										24
25										25
26										26
27										27
28										28
29										29
30										30

363.9
 @ 22.6 m to 24.4 m.
 Drilling rate slows.
 Rod chatter observed between 23.5 m
 and 24.4 m.

362.1
 24.4
LAKE BED SEDIMENTS
 SAND - medium grained, some Silt, red, wet.
 93.0% Sand
 7.0% Silt and Clay
 Encountered problems with sand flowing into
 core barrel. Had to abandon borehole without
 installing instrumentation.

End of Borehole



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CLIENT: Nanisivik Mine, a Division of CanZinco Ltd.

PROJECT: Geotechnical Investigation

Final Depth: 24.7 m

DRILL HOLE # BGC02-08

Date Drilled: Sept. 26, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: South Toe of Dike

Elevation: 372.8 m asl

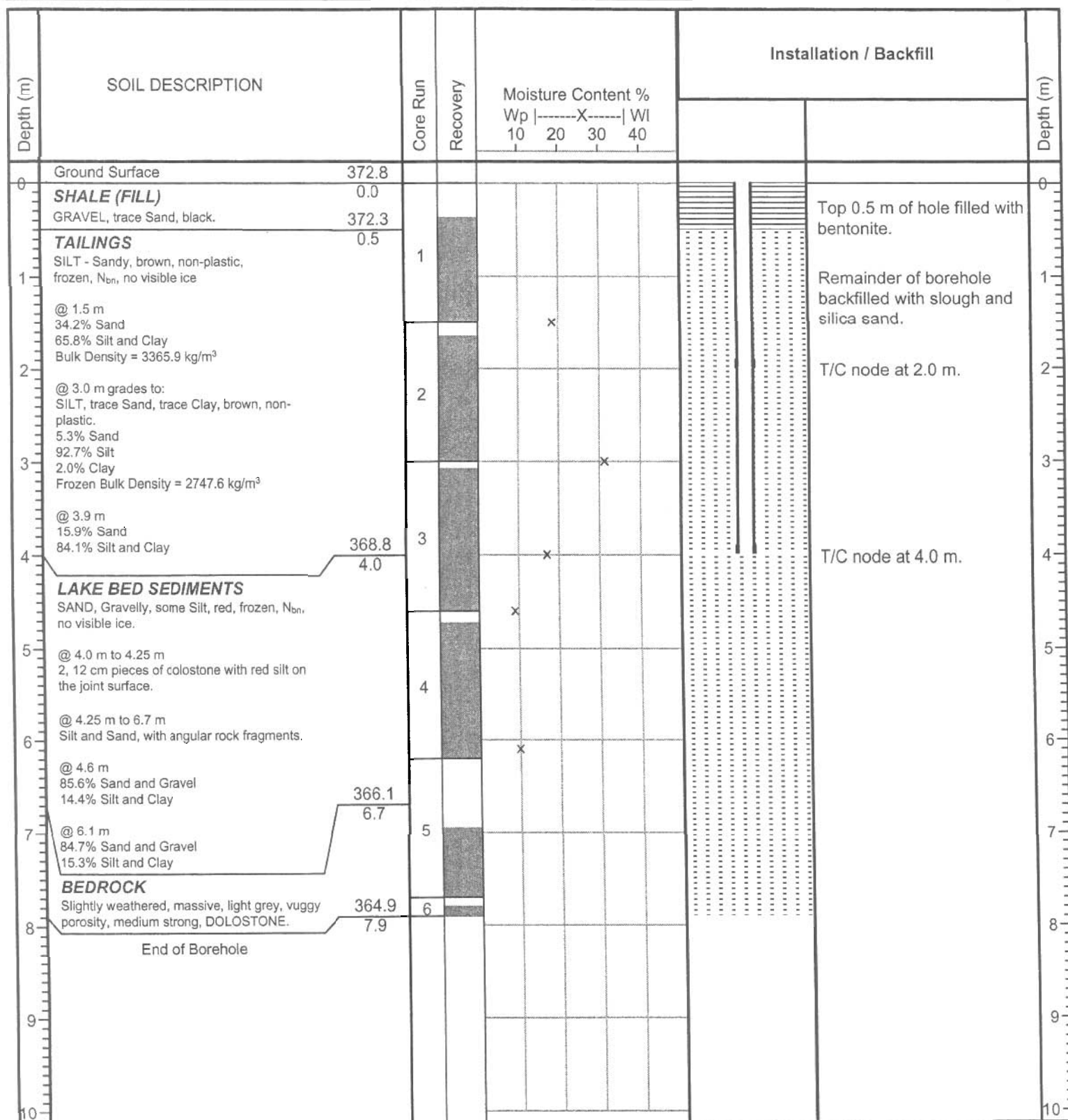
Co-ord: 13455.5N, 17524.6E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. = -0.5C, Thermocouple


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CLIENT: Nanisivik Mine, a Division of CanZinco Ltd.

PROJECT: Geotechnical Investigation

Final Depth: 7.9 m

DRILL HOLE # BGC02-09

Page 1 of 3

Date Drilled: Sept. 26, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: Test Cell Dike

Elevation: 375.9 m

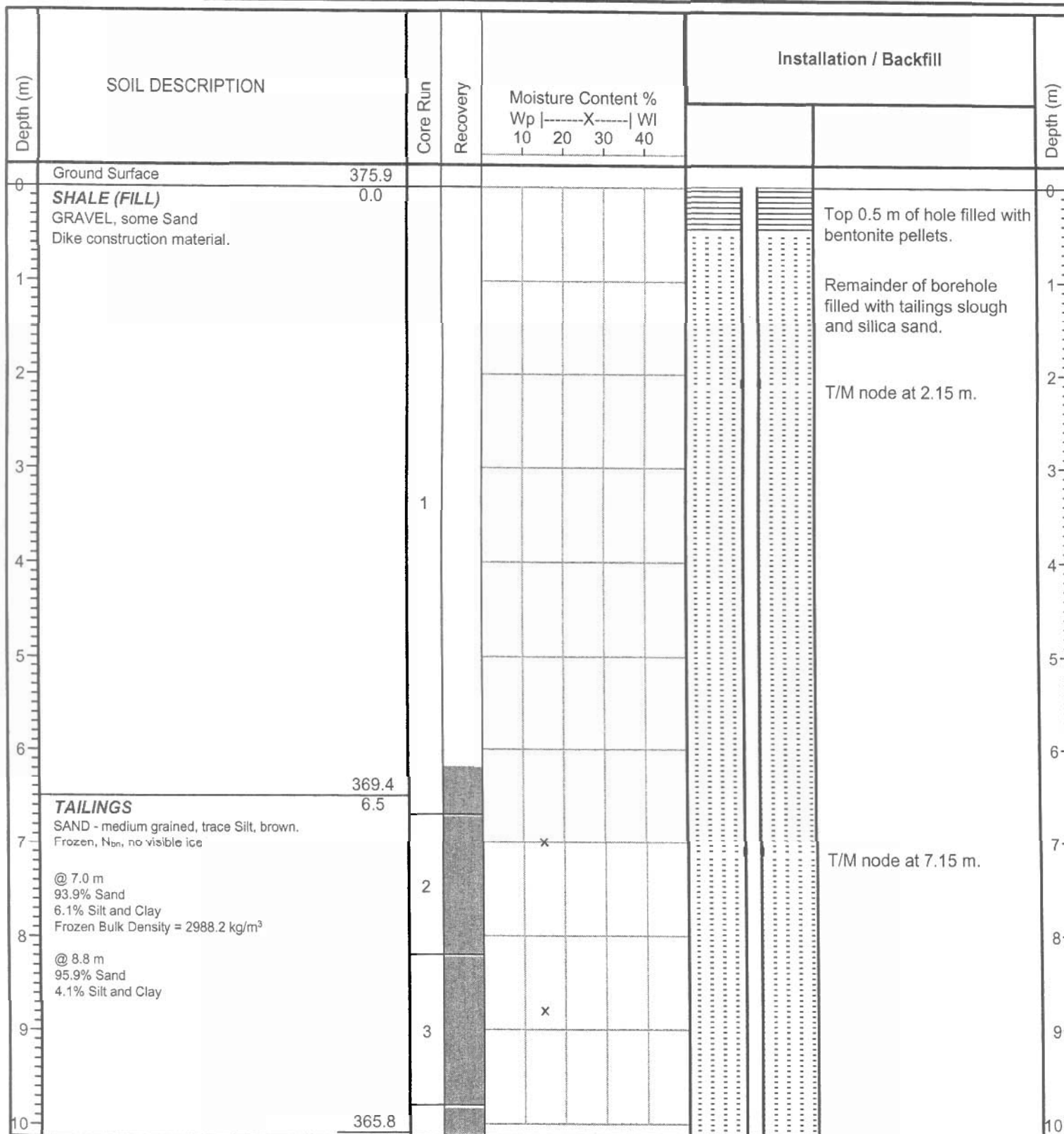
Co-ord: 13685.6N, 17745.0E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. = -0.5C, Thermistor Tag #3



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CLIENT: Nanisivik Mine, a Division of CanZinco Ltd.

PROJECT: Geotechnical Investigation

Final Depth: 30 m

DRILL HOLE # BGC02-09

Date Drilled: Sept. 26, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: Test Cell Dike

Elevation: 375.9 m

Co-ord: 13685.6N, 17745.0E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. = -0.5C, Thermistor Tag #3

Depth (m)	SOIL DESCRIPTION	Core Run	Recovery	Moisture Content %				Installation / Backfill		Depth (m)
				Wp	X	WI				
				10	20	30	40			
11	@ 10.1 m 95.6% Sand 4.4% Silt and Clay Forzen Bulk Density = 3191.5 kg/m ³	4			x					11
12		5								12
13										13
14		6			x					14
15	361.6 @ 14.3 to 22.9 Drilling rate increases. No pump pressure. Fluid return to surface. No recovery.				x					15
16										16
17										17
18										18
19										19
20										20

T/M node at 12.15 m.

T/M node at 14.65 m.

T/M node at 19.65 m.


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CLIENT: Nanisivik Mine, a Division of CanZinco Ltd.

PROJECT: Geotechnical Investigation

Final Depth: 30 m

DRILL HOLE # BGC02-09**Date Drilled:** Sept. 26, 2002**Contractor & Rig:** Mine's Diamond Drill**Drill Method:** Chilled Brine Coring**Hammer Type:** N/A**Location:** Test Cell Dike**Elevation:** 375.9 m**Co-ord:** 13685.6N, 17745.0E (Mine Grid)**Logged by:** G. Claypool**Project No.** 0255-006-07**Reviewed by:** J. Cassie**Notes:** Brine Temp. = -0.5C, Thermistor Tag #3

Depth (m)	SOIL DESCRIPTION	Core Run	Recovery	Moisture Content %		Installation / Backfill		Depth (m)
				Wp	WI			
				10	20	30	40	
21								21
22								22
23								23
24								24
25								25
26								26
27								27
28								28
29								29
30								30

353.0

@ 22.9 to 29.0 m

Drilling rate increases to 1.5 m/ min.

No fluid return.

No recovery.

347.4

28.5

@ 29.0 to 29.8 m: Drill rate slows,
Grades to SAND, fine grained, Silty,
brown, frozen, friable, Nf, no visible
ice.

67.3% Sand

32.7% Silt and Clay

End of Borehole - 30 m.

345.9

30.0

T/M node at 22.15 m.

x

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CLIENT: Nanisivik Mine, a Division of CanZinco Ltd.

PROJECT: Geotechnical Investigation

Final Depth: 30 m

DRILL HOLE # BGC02-10

Date Drilled: Sept. 26, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: North Toe of Dike

Elevation: 374.3 m

Co-ord: 13685.6N, 17676.2E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. = -0.5C, Thermocouple

Depth (m)	SOIL DESCRIPTION	Core Run	Recovery	Moisture Content %				Installation / Backfill		Depth (m)
				Wp	X	WI				
				10	20	30	40			
0	Ground Surface 374.3									0
	SHALE (FILL) 0.0									
	GRAVEL, some Sand, black. 373.8									
	TAILINGS 0.5									
1	SILT - some Sand, brown, non-plastic, frozen, N _{bn} , no visible ice.									1
2										2
3		1								3
4	@ 4.9 m 10.1% Sand 89.9% Silt and Clay Frozen Bulk Density = 3102.2 kg/m ³									4
5	@ 5.0 m to 5.1 m ICE									5
	@ 5.5 m grades to: SILT, Sandy, brown, non-plastic, frozen, N _{bn} , no visible ice. 28.7% Sand 71.3% Silt and Clay Frozen Bulk Density = 3190.4 kg/m ³									
6	LAKE BED SEDIMENTS OR FSB 368.5									6
	@ 5.8 m to 8.7 m No core recovery. Hard drilling with rod chatter. Problem with drill bit clogging.									
7		2								7
8										8
9	End of Borehole 365.6									9
10	8.7									10


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CLIENT: Nanisivik Mine, a Division of CanZinco Ltd.

PROJECT: Geotechnical Investigation

Final Depth: 8.7 m

DRILL HOLE # BGC02-11

Date Drilled: Sept. 27, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: Surface Cell

Elevation: 386.5 m

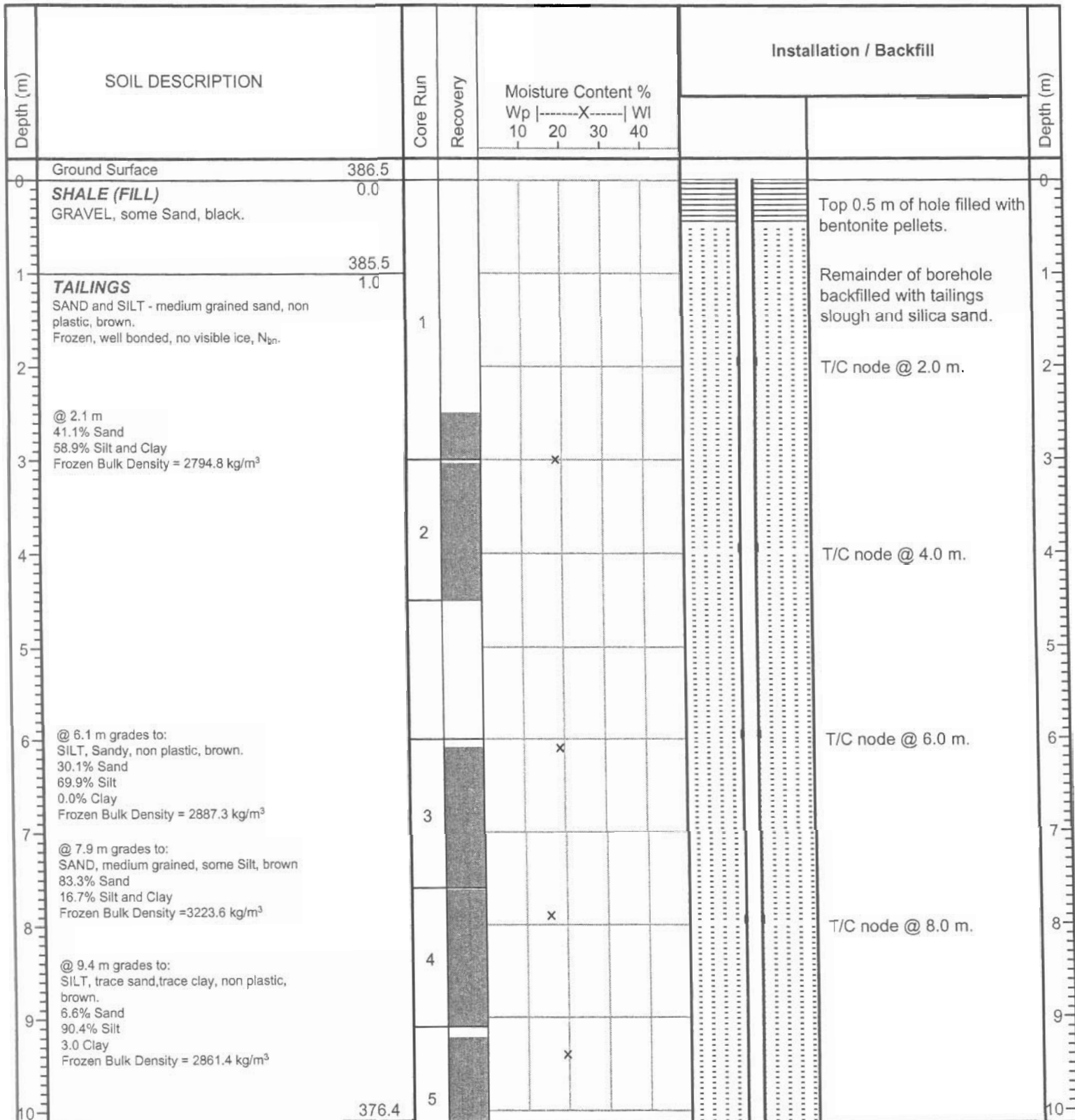
Co-ord: 13474.3N, 17418.1E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. = -1.0C, Thermocouple


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CLIENT: Nanisivik Mine, a Division of CanZinco Ltd.

PROJECT: Geotechnical Investigation

Final Depth: 26.8 m

DRILL HOLE # BGC02-11

Date Drilled: Sept. 27, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: Surface Cell

Elevation: 386.5 m

Co-ord: 13474.3N, 17418.1E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. = -1.0C, Thermocouple

Depth (m)	SOIL DESCRIPTION	Core Run	Recovery	Moisture Content % Wp -----X----- Wl 10 20 30 40	Installation / Backfill		Depth (m)
11	@ 10.1 to 15.2 m: Slightly faster than normal drill rate Low pump pressure No recovery						11
12							12
13							13
14							14
15	@ 15.2 to 24.7 m: Drilling rate increases significantly. No pump pressure. No recovery.						15
							16
16							16
17							17
18							18
19							19
20							20

371.3

15.2

T/C node @ 15.0 m.

6


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PROJECT: Geotechnical Investigation

Final Depth: 26.8 m

DRILL HOLE # BGC02-11

Date Drilled: Sept. 27, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: Surface Cell

Elevation: 386.5 m

Co-ord: 13474.3N, 17418.1E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. = -1.0C, Thermocouple

Depth (m)	SOIL DESCRIPTION	Core Run	Recovery	Moisture Content %		Installation / Backfill		Depth (m)
				Wp	WI			
				10	20	30	40	
21								21
22								22
23								23
24								24
25	361.8 @ 24.7 to 25.9 m: Drilling rate slows. Rod chatter noted.							25
26	360.6 BED ROCK Slightly weathered, massive, light grey, vuggy porosity, medium strong, DOLOSTONE. 359.7 Is(50) diamteral = 5.7 MPa Is(50) axial = 8.6 MPa End of Borehole							26
27								27
28								28
29								29
30								30

T/C node @ 25.0 m.


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CLIENT: Nanisivik Mine, a Division of CanZinco Ltd.

PROJECT: Geotechnical Investigation

Final Depth: 26.8 m

DRILL HOLE # BGC02-12

Page 1 of 3

Date Drilled: Sept. 27, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: Surface Cell

Elevation: 386.3 m

Co-ord: 13484.2N, 17324.3E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. = -1.0C, Thermocouple

Depth (m)	SOIL DESCRIPTION	Core Run	Recovery	Moisture Content %		Installation / Backfill		Depth (m)
				Wp	WI			
0	Ground Surface 386.3							0
0	TAILINGS 0.0 SAND, some Silt, wet, brown. Fluid return to top of borehole.						Top 0.5 m of borehole filled with bentonite pellets.	0
1	385.3						Remainder of borehole filled with talings slough and silica sand.	1
1	@ 1.0 to 22.9 m 1.0 No fluid return in borehole. Constant drill rate. No pump pressure. No recovery.						T/C node at 2.0 m.	2
2								3
3								4
4								5
5								6
6								7
7								8
8								9
9								10
10	376.4 9.9						T/C node at 10.0 m.	10



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CLIENT: Nanisivik Mine, a Division of CanZinco Ltd.

PROJECT: Geotechnical Investigation

Final Depth: 25.3 m

Logged by: G. Claypool

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Final Depth: 25.3 m

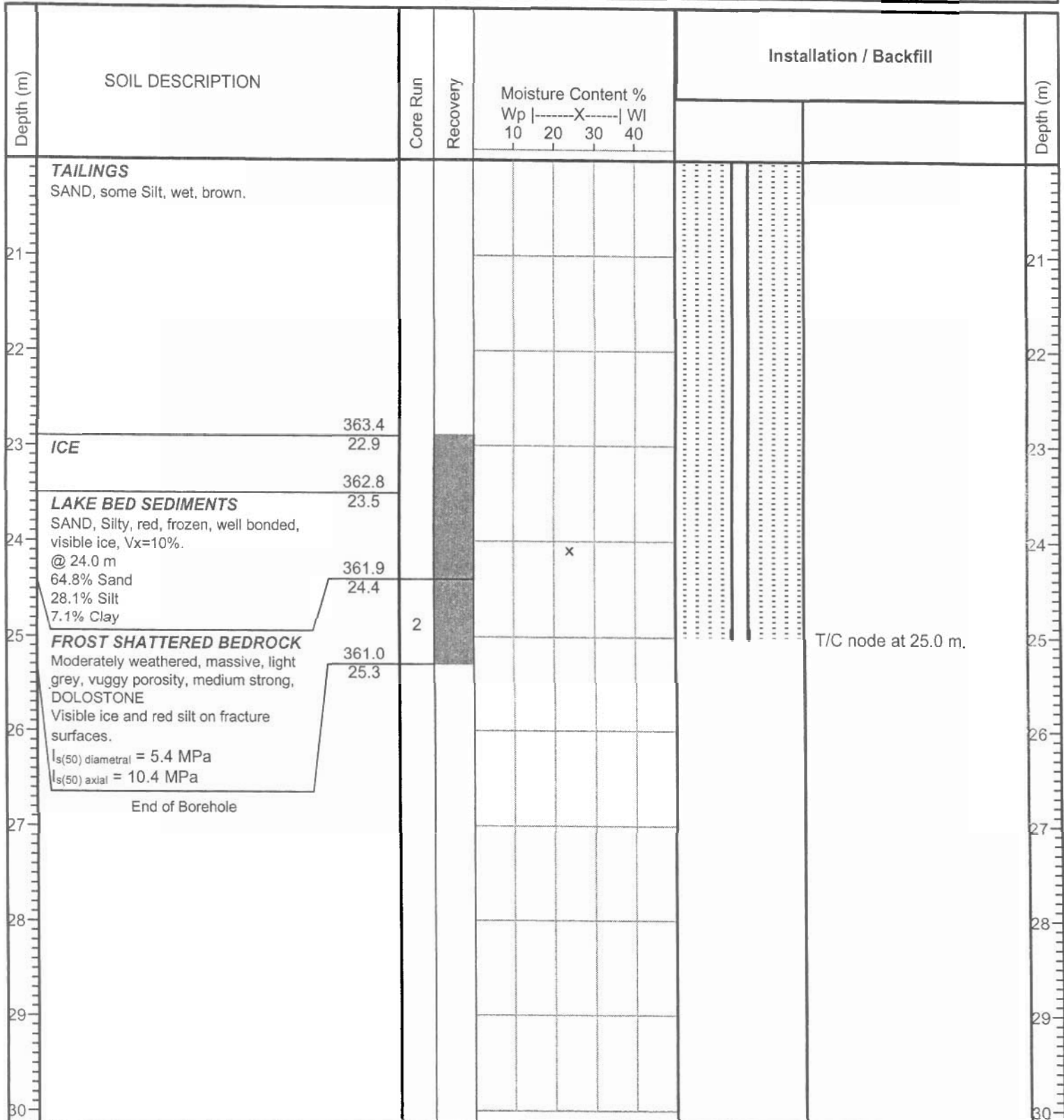
DRILL HOLE # BGC02-12

Page 3 of 3

Date Drilled: Sept. 27, 2002
 Contractor & Rig: Mine's Diamond Drill
 Drill Method: Chilled Brine Coring
 Hammer Type: N/A

Location: Surface Cell
 Elevation: 386.3 m
 Co-ord: 13484.2N, 17324.3E (Mine Grid)
 Logged by: G. Claypool

Project No. 0255-006-07
 Reviewed by: J. Cassie
 Notes: Brine Temp. = -1.0C, Thermocouple



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CLIENT: Nanisivik Mine, a Division of CanZinco Ltd.
 PROJECT: Geotechnical Investigation
 Final Depth: 25.3 m

DRILL HOLE # BGC02-13

Page 1 of 3

Date Drilled: Sept. 28, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: Surface Cell

Elevation: 387.3 m

Co-ord: 13558.6N, 17448.6E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. = -3.5C, Thermocouple

Depth (m)	SOIL DESCRIPTION	Core Run	Recovery	Moisture Content %				Installation / Backfill		Depth (m)
				Wp	X	WI				
				10	20	30	40			
0	Ground Surface 387.3									0
	SHALE (FILL) 0.0									
	GRAVEL, some Sand 386.8									
	TAILINGS 0.5									
1	SAND and SILT - medium grained sand, non plastic, brown, frozen, N _{bn} , no visible ice.									1
	@ 1.8 m									
	42.0% Sand	1								
	58.0% Silt and Clay									
2	Frozen Bulk Density = 3525.9 kg/m ³									2
3										3
4		2								4
5										5
6										6
		3								
7										7
8										8
9										9
10										10

Top 0.5 m of hole filled with bentonite pellets.

Remainder of borehole backfilled with tailings slough and silica sand.

T/C node at 10.0 m.



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CLIENT: Nanisivik Mine, a Division of CanZinco Ltd.

PROJECT: Geotechnical Investigation

Final Depth: 30 m

DRILL HOLE # BGC02-13

Page 2 of 3

Date Drilled: Sept. 28, 2002

Contractor & Rig: Mine's Diamond Drill

Drill Method: Chilled Brine Coring

Hammer Type: N/A

Location: Surface Cell

Elevation: 387.3 m

Co-ord: 13558.6N, 17448.6E (Mine Grid)

Logged by: G. Claypool

Project No. 0255-006-07

Reviewed by: J. Cassie

Notes: Brine Temp. = -3.5C, Thermocouple

Depth (m)	SOIL DESCRIPTION	Core Run	Recovery	Moisture Content %				Installation / Backfill		Depth (m)
				Wp	X	WI				
				10	20	30	40			
11										11
12										12
13	@ 12.2 to 21.3 m Encountered alternating layers of hard and soft material based on drilling rate. Pump pressures fluctuate. No recovery.									13
14										14
15										15
16										16
17										17
18										18
19										19
20										20

375.1
12.2

4

T/C node at 15.0 m.

T/C node at 20.0 m.



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PROJECT: Geotechnical Investigation

Final Depth: 30 m