

BORE HOLE # BH-10 (TC-37)

Page 4 of 4

Date Drilled: May, 2002/ July, 2002

Contractor & Rig: Nanisivik Mine

Drill Method: Diamond Drill/ BQ Coring

Hammer Type: N/A

Location: Surface Cell

Elevation: 387.46 m

Co-ord: 13668.3N/ 17256.8E (Mine Grid)

Logged by: Neil B. (NML)/ J. Cassie (BGC)

Project No. 0255-006-03

Reviewed by: J. Cassie

Notes: Thermocouple Installed (TC-37)

Depth (m)	SOIL DESCRIPTION	Sample Number	Sample Type	Recovery	USC	SPT 'N'	Moisture Content %		Pocket Penetrometer		Installation / Backfill	Depth (m)
							Wp -----X----- Wl		kPa			
							10 20 30 40		100 200 300 400			
									SPT (N)			
									Blows/ft			
									10 20 30 40			
31	LAKE BED SEDIMENTS Red silt and clay and grey dolomud with Sandstone gravel.	357.0										31
	End of Borehole	30.5										
32												32
33												33
34												34
35												35
36												36
37												37
38												38
39												39
40												40



BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

Calgary, AB

Phone (403) 250-5185

CLIENT: Nanisivik Mine, a Division of CanZinco Ltd.

PROJECT: Spillway Alignment Investigation

Final Depth: 30.5 m

APPENDIX III - INSTRUMENT CALIBRATION SHEETS

Table III-1: Calibration Sheets and Installation Location
Thermistor Calibration Data – Cable Data Sheets
Vibrating Wire Piezometer Calibration Data

Table III-1: Calibration Sheets and Instalation Locations

Instrument	Borehole	Instrument Label
Thermistors	BGC02-01	5
	BGC02-02	1
	BGC02-03	4
	BGC02-06	2
	BGC02-09	3
	BGC03-07	25-1
	BGC03-09	25-2
	BGC03-10	30-1
	BGC03-11	25-3
	BGC03-13	20-1
	BGC03-15	15-2
	BGC03-19	10-1
	BGC03-20	20-2
	BGC03-21	15-1
	BGC03-22	30-2
	BGC03-33	10-1
	BGC03-34	10-2
	BGC03-37	Surface Cell Test Cover
Vibrating Wire Piezometers	BGC03-12	VW0501
	BGC03-14	VW0446
	BGC03-31	VW0448
	BGC03-32	VW0449
	BGC03-35	VW0447

144 West Terrace Cres.
Cochrane, AB. T4C-1R3

Ph. 403-932-3448
email: m-squared@canada.com

Thermistor Cable Data Sheet

Customer: BGC Engineering Inc., 1605 - 840 7 Ave. SW.,

Calgary, AB., T2P 3G2 (250-5285)

Contact: Jim Cassie, P.Eng.

Project: 0255-006-007

Date Ordered: Sept. 9, 2002

Purchase Order No.: 0255-006-007

Serial No.: 1

Total Length: 34 m.

Lead Length: 4 m.

Termination: MS3106A20-29P

Thermistor Type: YSI44007

No. of Thermistors: 10

Shielded Yes- Flex Conduit

Molded: Yes

Wire Type: 25 Cond. Stranded

Number of Cables in Order: 5[illegible]

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Thermistor Cable Data Sheet

Number of Cables in Order: 5

[illegible]

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Cochrane, AB. T4C-1R3.

Ph. 403-932-3448
email: m-squared@canada.com

Customer: BGC Engineering Inc., 1605 - 840 7 Ave. SW.,
Calgary, AB., T2P 3G2 (250-5285)

Contact: Jim Cassie, P.Eng.

Project: 0255-006-007

Date Ordered: Sept. 9, 2002

Purchase Order No.: 0255-006-007

Serial No.: 3

Total Length: 34 m.

Lead Length: 4 m.

Termination: MS3106A20-29P

Thermistor Type: YSI44007

No. of Thermistors: 10

Shielded Yes-Flex Conduit

Molded: Yes

Wire Type: 25 Cond. Stranded

Number of Cables in Order: 5

[illegible]

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email: m-squared@canada.com

Customer: BGC Engineering Inc., 1605 - 840 7 Ave. SW.,
Calgary, AB, T2P 3G2 (250-5285)

Contact: Jim Cassie, P.Eng.

Project: 0255-006-007

Date Ordered: Sept. 9, 2002

Purchase Order No.: 0255-006-007

Serial No.: 4

Total Length: 24 m.

Lead Length: 4 m.

Termination: MS3106A20-29P

Thermistor Type: YSI44007

No. of Thermistors: 10

Shielded Yes-Flex Conduit

Molded: Yes

Wire Type: 25 Cond. Stranded

Number of Cables in Order: 5

[illegible]

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Customer: BGC Engineering Inc., 1605 - 840 7 Ave. SW.,

Calgary, AB., T2P 3G2 (250-5285)

Contact: Jim Cassie, P.Eng.

Project: 0255-006-007

Date Ordered: Sept. 9, 2002

Purchase Order No.: 0255-006-007

Serial No.: 5

Total Length: 19 m.

Lead Length: 4 m.

Termination: MS3106A20-29P

Thermistor Type: YSI44007

No. of Thermistors: 8

Shielded Yes- Flex Conduit

Molded: Yes

Wire Type: 25 Cond. Stranded

Number of Cables in Order: 5

[illegible]



M-Squared Instruments

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Cochrane, AB. T4C-1R3

Ph. 403-932-3448
email: m-squared@canada.com

Thermistor Cable Data Sheet

Customer: Nanisivik Mine, Div. CanZinco Ltd., PO Box 56

Bathurst NB, E2A 3Z1

Contact: Rachel Morrison 5065461999x2243 F.5481100

Project: Nanisivik Mine, NU. Via Andlauer 800 568 7497

Date Ordered: 13-May-03

Purchase Order No.: D-000004516

Serial No.: 255-008 10-1

Total Length: 14

Lead Length: 4 m.

Termination: MS3106A 20-29P

Thermistor Type: YSI 44007

No. of Thermistors: 8

Shielded Flex Conduit

Molded: Yes

Number of Cables in Order: 12

T. No.	Colour Code	Depth	Pin No.	kOhms @ 0 deg. C.
1	WH	0.00	A	16.33
	BK		T	
2	BN	1.00	B	16.34
	RD		T	
3	OR	2.00	C	16.34
	YW		T	
4	GN	3.00	D	16.32
	BK		T	
5	BN	4.00	E	16.4
	RD		T	
6	OR	5.00	F	16.35
	YW		T	
7	GN	7.50	G	16.37
	BU		T	
8	PU	10.00	H	16.38
	GY		T	



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Thermistor Cable Data Sheet

Customer: Nanisivik Mine, Div. CanZinco Ltd., PO Box 56

Bathurst NB, E2A 3Z1

Contact: Rachel Morrison 5065461999x2243 F.5481100

Project: Nanisivik Mine, NU. Via Andlauer 800 568 7497

Date Ordered: 13-May-03

Purchase Order No.: D-000004516

Serial No.: 255-008 10-2

Total Length: 14 m.

Lead Length: 4 m.

Termination: MS3106A 20-29P

Thermistor Type: YSI 44007

No. of Thermistors: 10

Shielded No

Molded: No- Glue and Clamp

Number of Cables in Order: 12

T. No.	Colour Code	Depth	Pin No.	kOhms @ 0 deg. C.
1	WH	1.00	A	16.37
2	RD	2.00	B	16.37
3	BU	3.00	C	16.36
4	GN	4.00	D	16.36
5	PU	5.00	E	16.37
6	BU	6.00	F	16.37
7	GY	7.00	G	16.35
8	BN	8.00	H	16.24
9	OR	9.00	J	16.24
10	GN	10.00	K	16.25



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Customer: Nanisivik Mine, Div. CanZinc Ltd., PO Box 56

Bathurst NB, E2A 3Z1

Contact: Rachel Morrison 5065461999x2243 F.5481100

Project: Nanisivik Mine, NU. Via Andlauer 800 568 7497

Date Ordered: 13-May-03

Purchase Order No.: D-000004518

Serial No.: 255-008 10-3

Total Length: 14 m.

Lead Length: 4 m.

Termination: MS3106A 20-29P

Thermistor Type: YSI 44007

No. of Thermistors: 10

Shielded No

Molded: No- Glue and Clamp

Number of Cables in Order: 12

T. No.	Colour Code	Depth	Pin No.	kOhms @ 0 deg. C.
1	WH	1.00	A	18.35
2	RD	2.00	B	16.37
3	BU	3.00	C	16.24
4	GN	4.00	D	16.37
5	PU	5.00	E	16.39
6	BU	6.00	F	16.24
7	GY	7.00	G	16.4
8	BN	8.00	H	16.38
9	OR	9.00	G	16.25
10	GN	10.00	H	16.23



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Thermistor Cable Data Sheet

Customer: Nanisivik Mine, Div. CanZinco Ltd., PO Box 56

Bathurst NB, E2A 3Z1

Contact: Rachel Morrison 5085461999x2243 F.5481100

Project: Nanisivik Mine, NU. Via Andlauer 800 568 7497

Date Ordered: 13-May-03

Purchase Order No.: D-000004516

Serial No.: 255-008 15-1

Total Length: 19 m.

Lead Length: 4 m.

Termination: MS3106A 20-29P

Thermistor Type: YSI 44007

No. of Thermistors: 10

Shielded No

Molded: No- Glue and Clamp

Number of Cables in Order: 12

T. No.	Colour Code	Depth	Pin No.	kOhms @ 0 deg. C.
1	WH	1.00	A	16.23
	BK			
2	RD	2.00	B	16.38
	GR			
3	BU	3.00	C	16.37
	PV			
4	GN	4.00	D	16.28
	OR			
5	PU	5.00	E	16.36
	BN			
6	BU	6.00	F	16.37
	WH			
7	GY	8.00	G	16.38
	BK			
8	BN	10.00	H	16.37
	RD			
9	OR	12.50	J	16.36
	PV			
10	GN	15.00	K	16.27
	BU			



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Customer: Nanisivik Mine, Div. CanZinco Ltd., PO Box 56

Bathurst NB, E2A 3Z1

Contact: Rachel Morrison 5065461999x2243 F.5481100

Project: Nanisivik Mine, NU. Via Andlauer 800 568 7497

Date Ordered: 13-May-03

Purchase Order No.: D-000004516

Serial No.: 255-008 15-2

Total Length: 19 m.

Lead Length: 4 m.

Termination: MS3106A 20-29P

Thermistor Type: YSI 44007

No. of Thermistors: 10

Shielded No

Molded: No- Glue and Clamp

Number of Cables In Order: 12

T. No.	Colour Code	Depth	Pin No.	kOhms @ 0 deg. C.
1	WH	1.00	A	16.39
2	RD	2.00	B	16.35
3	BU	3.00	C	16.37
4	GN	4.00	D	16.37
5	PU	5.00	E	16.24
6	BU	6.00	F	16.34
7	GY	8.00	G	16.38
8	BN	10.00	H	16.36
9	OR	12.50	J	16.36
10	GN	15.00	K	16.27



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Thermistor Cable Data Sheet

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Bathurst NB, E2A 3Z1

Contact: Rachel Morrison 5065461999x2243 F.5481100

Project: Nanisivik Mine, NU. Via Andlauer 800 568 7497

Date Ordered: 13-May-03

Purchase Order No.: D-000004516

Serial No.: 255-008 20-1

Total Length: 24

Lead Length: 4 m.

Termination: MS3106A 20-29P

Thermistor Type: YSI 44007

No. of Thermistors: 10

Shielded Flex Conduit

Molded: Yes

Number of Cables in Order: 12

T. No.	Colour Code	Depth	Pin No.	kOhms @ 0 deg. C.
1	WH	1.00	A	16.34
	SH,BK,WH,TN,BU			T
2	RD	2.00	B	16.36
	SH,BK,WH,TN,BU			T
3	GN	5.00	C	16.36
	SH,BK,WH,TN,BU			T
4	BK	7.50	D	16.39
	SH,BK,WH,TN,BU			T
5	GY	10.00	E	16.38
	SH,BK,WH,TN,BU			T
6	BN	11.50	F	16.37
	SH,BK,WH,TN,BU			T
7	PK	13.50	G	16.35
	SH,BK,WH,TN,BU			T
8	OR	15.00	H	16.37
	SH,BK,WH,TN,BU			T
9	PU	17.50	J	16.34
	SH,BK,WH,TN,BU			T
10	YW	20.00	K	16.35
	SH,BK,WH,TN,BU			T



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Contact: Rachel Morrison 5065461999x2243 F.5481100

Project: Nanisivik Mine, NU. Via Andlauer 800 568 7497

Date Ordered: 13-May-03

Purchase Order No.: D-000004516

Serial No.: 255-008 20-2

Total Length: 24

Lead Length: 4 m.

Termination: MS3106A 20-29P

Thermistor Type: YSI 44007

No. of Thermistors: 10

Shielded Flex Conduit

Molded: Yes

Number of Cables in Order: 12

T. No.	Colour Code	Depth	Pin No.	kOhms @ 0 deg. C.
1	WH	1.00	A	16.37
	SH-BKWH-TN-BU			
2	RD	2.00	B	16.32
	SH-BKRD-TN-BU			
3	GN	5.00	C	16.31
	SH-BKGN-TN-BU			
4	BK	7.50	D	16.32
	SH-BKBK-TN-BU			
5	GY	10.00	E	16.33
	SH-BKGY-TN-BU			
6	BN	11.50	F	16.33
	SH-BKBN-TN-BU			
7	PK	13.50	G	16.36
	SH-BKPK-TN-BU			
8	OR	15.00	H	16.29
	SH-BKOR-TN-BU			
9	PU	17.50	J	16.33
	SH-BKPU-TN-BU			
10	YW	20.00	K	16.33
	SH-BKYW-TN-BU			



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Customer: Nanisivik Mine, Div. CanZinco Ltd., PO Box 56

Bathurst NB, E2A 3Z1

Contact: Rachel Morrison 5065461999x2243 F.5481100

Project: Nanisivik Mine, NU. Via Andlauer 800 568 7497

Date Ordered: 13-May-03

Purchase Order No.: D-000004516

Serial No.: 255-008 25-1

Total Length: 29

Lead Length: 4 m.

Termination: MS3106A 20-29P

Thermistor Type: YSI 44007

No. of Thermistors: 8

Shielded: Flex Conduit

Molded: Yes

Number of Cables in Order: 12

T. No.	Colour Code	Depth	Pin No.	kOhms @ 0 deg. C.
1	WH	2.00	A	13.34
	BK		T	
2	BN	5.00	B	16.33
	RD		T	
3	OR	7.50	C	16.35
	YW		T	
4	GN	10.00	D	16.37
	BK		T	
5	BN	12.50	E	16.32
	RD		T	
6	OR	15.00	F	16.36
	YW		T	
7	GN	17.50	G	16.34
	BU		T	
8	PU	20.00	H	16.32
	GY		T	
9	WH	25.00	J	16.36
	BK		T	

assume
mistake
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be
16.34



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Bathurst NB, E2A 3Z1

Contact: Rachel Morrison 5065461999x2243 F.5481100

Project: Nanisivik Mine, NU. Via Andlauer 800 568 7497

Date Ordered: 13-May-03

Purchase Order No.: D-000004516

Serial No.: 255-008 25-2

Total Length: 29

Lead Length: 4 m.

Termination: MS3106A 20-29P

Thermistor Type: YSI 44007

No. of Thermistors: 10

Shielded Flex Conduit

Molded: Yes

Number of Cables in Order: 12

T. No.	Colour Code	Depth	Pin No.	kOhms @ 0 deg. C.
1	WH	1.00	A	16.35
	SH,BKWH,TN,BU			T
2	RD	2.00	B	16.34
	SH,BKWH,TN,BU			T
3	GN	5.00	C	16.31
	SH,BKWH,TN,BU			T
4	BK	7.50	D	16.34
	SH,BKWH,TN,BU			T
5	GY	10.00	E	16.29
	SH,BKWH,TN,BU			T
6	BN	12.50	F	16.38
	SH,BKWH,TN,BU			T
7	PK	15.00	G	16.32
	SH,BKWH,TN,BU			T
8	OR	17.50	H	16.32
	SH,BKWH,TN,BU			T
9	PU	20.00	J	16.39
	SH,BKWH,TN,BU			T
10	YW	25.00	K	16.33
	SH,BKWH,TN,BU			T



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Thermistor Cable Data Sheet

Customer: Nanisivik Mine, Div. CanZineco Ltd., PO Box 56
Bathurst NB, E2A 3Z1

Contact: Rachel Morrison 5065481999x2243 F.5481100

Project: Nanisivik Mine, NU, Via Andlauer 800 568 7497

Date Ordered: 13-May-03

Purchase Order No.: D-000004516

Serial No.: 255-008 25-3

Total Length: 29

Lead Length: 4 m.

Termination: MS3106A 20-29P

Thermistor Type: YSI 44007

No. of Thermistors: 10

Shielded Flex Conduit

Molded: Yes

Number of Cables in Order: 12

T. No.	Colour Code	Depth	Pin No.	kOhms @ 0 deg. C.
1	WH	1.00	A	16.36
2	RD	2.00	B	16.33
3	GN	5.00	C	16.32
4	BK	7.50	D	16.31
5	GY	10.00	E	16.36
6	BN	12.50	F	16.38
7	PK	15.00	G	16.35
8	OR	17.50	H	16.36
9	PU	20.00	J	16.36
10	YW	25.00	K	16.29