APPENDIX II
WATER QUALITY TEST DATA

Accutest Laboratories – Tested water samples from:
BGC03-12 and BGC03-14
Ice Core samples from:
BGC03-16, BGC03-20, and BGC03-21. (June 2003)

Maxxam Analytical – Tested water samples from:
BGC03-12 and BGC03-14. (Sept. 2003)

ACCUTEST LABORATORIES LTD

REPORT OF ANALYSIS

Client: BGC Engineering Inc.
1605-840 7th Avenue SW
Calgary, AB
T

Attention: Gerry Ferris

Report Number: 2308149
Date: 2003-06-18
Date Submitted: 2003-06-04

Project: 0255-008-03

P.O. Number:
Matrix: Water

			LAB ID:	252491	252492				GUIDELINE		
			Sample Date:	2003-05-28	2003-05-28						
			Sample ID:	BGC03-12-1	BGC03-14-1						
PARAMETER	UNITS	MDL							TYPE	LIMIT	UNITS
Acidity as CaCO3	mg/L	1		18	24						
Alkalinity as CaCO3	mg/L	5		51	77						
Chloride	mg/L	1		2820	10300						
N-NH3 (Ammonia)	mg/L	10		20	15.6						
Sulphate	mg/L	1		1390	780						
Hardness as CaCO3	mg/L	1		5170	14300						
Calcium	mg/L	1		1850	5710						
Magnesium	mg/L	1		133	16						
Potassium	mg/L	1		163	287						
Sodium	mg/L	2		87	208						
Arsenic	mg/L	0.01		0.02	<0.01						
Barium	mg/L	0.01		0.02	0.05						
Boron	mg/L	0.05		0.51	1.71						
Cadmium	mg/L	0.001		0.014	0.005						
Chromium	mg/L	0.01		0.05	0.01						
Copper	mg/L	0.01		0.06	0.09						
Iron	mg/L	0.01		26.4	1.68						
Lead	mg/L	0.01		3.32	1.14						
Manganese	mg/L	0.005		0.534	0.060						
Mercury	mg/L	0.0001		<0.0001	<0.0001						
Selenium	mg/L	0.01		0.01	0.03						
Aluminum	mg/L	0.01		0.22	0.04						
Antimony	mg/L	0.01		<0.01	<0.01						
Beryllium	mg/L	0.001		<0.001	<0.001						
Cobalt	mg/L	0.002		0.009	0.010						
Molybdenum	mg/L	0.005		0.006	0.072						
Nickel	mg/L	0.005		0.020	<0.005						
Silicon	mg/L	0.1		1.4	0.4						
Silver	mg/L	0.001		<0.001	<0.001						
Strontium	mg/L	0.002		46.3	167						

MDL = Method Detection Limit INC = Incomplete AO = Aesthetic Objective OG = Operational Guideline MAC = Maximum Allowable Concentration IMAC = Interim Maximum Allowable Concentration

Comment: Alkalinity endpoint is pH 4.5, Acidity endpoint is pH 8.3

APPROVAL:
Ewan McRobbie
Inorganic Lab Supervisor

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P.O. Number:
Matrix: Water

			LAB ID:	252491	252492				GUIDELINE		
			Sample Date:	2003-05-28	2003-05-28						
			Sample ID:	BGC03-12-1	BGC03-14-1						
PARAMETER	UNITS	MDL							TYPE	LIMIT	UNITS
Thallium	mg/L	0.01		<0.01	<0.01						
Titanium	mg/L	0.01		<0.01	<0.01						
Vanadium	mg/L	0.01		<0.01	<0.01						
Zinc	mg/L	0.005		4.75	0.250						

MDL = Method Detection Limit INC = Incomplete AO = Aesthetic Objective OG = Operational Guideline MAC = Maximum Allowable Concentration IMAC = Interim Maximum Allowable Concentration

Comment:

APPROVAL:
Ewan McRobbie
Inorganic Lab Supervisor

ACCUTEST LABORATORIES LTD

REPORT OF ANALYSIS

Client: BGC Engineering Inc.
1605-840 7th Avenue SW
Calgary, AB
T
Attention: Gerry Ferris

Report Number: 2308150
Date: 2003-06-17
Date Submitted: 2003-06-04

Project: 0255-008-03

P.O. Number:
Matrix: Water

			LAB ID:	252493	252494	252495			GUIDELINE		
			Sample Date:	2003-05-27	2003-05-27	2003-05-27					
			Sample ID:	BGC03-06-01	BGC03-21-01	BGC03-20-01					
PARAMETER	UNITS	MDL							TYPE	LIMIT	UNITS
Acidity as CaCO3	mg/L	1		<5	<5	NS					
Alkalinity as CaCO3	mg/L	5		10	18	NS					
Chloride	mg/L	1		47	4	<1					
N-NH3 (Ammonia)	mg/L	0.02		0.03	0.04	NS					
Sulphate	mg/L	1		1	14	<1					
Hardness as CaCO3	mg/L	1		57	28	2880					
Calcium	mg/L	1		23	11	667					
Magnesium	mg/L	1		<1	<1	296					
Potassium	mg/L	1				3					
Sodium	mg/L	2				3					
Arsenic	mg/L	0.001				0.009					
Barium	mg/L	0.01				0.08					
Boron	mg/L	0.05				0.09					
Cadmium	mg/L	0.0001				0.0112					
Chromium	mg/L	0.001				0.060					
Copper	mg/L	0.001				0.842					
Iron	mg/L	0.01				38.3					
Lead	mg/L	0.001				14.0					
Manganese	mg/L	0.005				1.96					
Mercury	mg/L	0.0001				<0.0001					
Selenium	mg/L	0.001				<0.001					
Aluminum	mg/L	0.01				1.80					
Antimony	mg/L	0.001				0.004					
Beryllium	mg/L	0.001				<0.001					
Cobalt	mg/L	0.0002				0.0287					
Molybdenum	mg/L	0.005				<0.005					
Nickel	mg/L	0.005				0.047					
Silicon	mg/L	0.1				1.2					
Silver	mg/L	0.0001				<0.0001					
Strontium	mg/L	0.002				0.815					

MDL = Method Detection Limit INC = Incomplete AO = Aesthetic Objective OG = Operational Guideline MAC = Maximum Allowable Concentration IMAC = Interim Maximum Allowable Concentration

Comment:

252495: NS = No Sample.

APPROVAL: _____
Ewan McRobbie
Inorganic Lab Supervisor

Client: BGC Engineering Inc.
1605-840 7th Avenue SW
Calgary, AB
T
Attention: Gerry Ferris

Report Number: 2308150
Date: 2003-06-17
Date Submitted: 2003-06-04

Project: 0255-008-03

P.O. Number:
Matrix: Water

			LAB ID:	252493	252494	252495			GUIDELINE		
			Sample Date:	2003-05-27	2003-05-27	2003-05-27					
			Sample ID:	BGC03-06-01	BGC03-21-01	BGC03-20-01					
PARAMETER	UNITS	MDL							TYPE	LIMIT	UNITS
Thallium	mg/L	0.001			0.001						
Titanium	mg/L	0.01			<0.01						
Vanadium	mg/L	0.001			0.017						
Zinc	mg/L	0.005			5.36						

MDL = Method Detection Limit INC = Incomplete AO = Aesthetic Objective OG = Operational Guideline MAC = Maximum Allowable Concentration IMAC = Interim Maximum Allowable Concentration
Comment:

252495: NS = No Sample.

APPROVAL:
Ewan McRobbie
Inorganic Lab Supervisor

MAXXAM JOB #: A331738
PROJECT NAME: NANISIVIK MINE
PROJECT #: 23635
REPORT DATE: 2003/09/03
RESULTS OF CHEMICAL ANALYSES OF LIQUID

Maxxam ID		A82897		A82900									
COC Number		215038		215038									
Sampling Date		19/08/2003		19/08/2003									
Parameter	Units	BGC03-12	MDL	BGC03-14	MDL	MATRIX SPIKE %REC	MDL	QC %REC	MDL	SPIKED BLANK %REC	MDL	METHOD BLANK	MDL
Acidity as CaC03	mg/L	N/A	N/A	N/A	10	N/A	N/A	N/A	N/A	N/A	N/A	ND	10
Total Alkalinity (Total as CaCO3)	mg/L	N/A	N/A	87.9	1	N/A	N/A	98	1	N/A	N/A	ND	1
Dissolved Chloride (Cl)	mg/L	413	3.8	1360	3.8	N/A	N/A	100	0.15	101	0.15	ND	0.15
Dissolved Sulfates (SO4)	mg/L	1430	13	575	13	N/A	N/A	98	0.5	98	0.5	ND	0.5
Total Petroleum Hydrocarbons(Extractable)	ug/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	95	TBA	ND	70
Total Aluminum (Al)	mg/L	0.08	0.04	0.06	0.04	92	0.04	100	0.04	100	0.04	ND	0.04
Total Chromium (Cr)	mg/L	ND	0.005	ND	0.005	94	0.005	98	0.005	106	0.005	ND	0.005
Total Cobalt (Co)	mg/L	0.01	0.005	ND	0.005	95	0.005	98	0.005	108	0.005	ND	0.005
Total Copper (Cu)	mg/L	0.038	0.004	0.014	0.004	99	0.004	99	0.004	106	0.004	ND	0.004
Total Iron (Fe)	mg/L	30.4	0.006	2.06	0.006	90	0.006	107	0.006	116	0.006	ND	0.006
Total Lead (Pb)	mg/L	0.741	0.025	0.517	0.025	89	0.025	97	0.025	106	0.025	ND	0.025
Total Lithium (Li)	mg/L	0.06	0.02	0.43	0.02	110	0.02	101	0.02	102	0.02	ND	0.02
Total Magnesium (Mg)	mg/L	130	0.003	14.9	0.003	N/A	0.003	107	0.003	N/A	0.003	0.007	0.003
Total Manganese (Mn)	mg/L	0.141	0.002	0.049	0.002	92	0.002	98	0.002	105	0.002	ND	0.002
Total Antimony (Sb)	mg/L	0.4	0.1	0.1	0.1	89	0.1	111	0.1	106	0.1	ND	0.1
Total Molybdenum (Mo)	mg/L	0.011	0.006	0.081	0.006	101	0.006	97	0.006	109	0.006	ND	0.006
Total Nickel (Ni)	mg/L	ND	0.01	ND	0.01	93	0.01	97	0.01	105	0.01	ND	0.01
Total Phosphorus Total (P)	mg/L	ND	0.04	ND	0.04	N/A	0.04	100	0.04	N/A	0.04	ND	0.04
Total Potassium (K)	mg/L	106	1	122	1	N/A	1	99	1	N/A	1	ND	1
Total Selenium (Se)	mg/L	ND	0.033	ND	0.033	98	0.033	100	0.033	110	0.033	ND	0.033
Total Silicon (Si)	mg/L	0.5	0.2	0.7	0.2	N/A	0.2	103	0.2	N/A	0.2	ND	0.2
Total Silver (Ag)	mg/L	ND	0.007	ND	0.007	N/A	0.007	99	0.007	N/A	0.007	ND	0.007
Total Sodium (Na)	mg/L	80.1	0.09	95.7	0.09	N/A	0.09	103	0.09	N/A	0.09	ND	0.09
Total Strontium (Sr)	mg/L	2.13	0.003	12	0.003	N/A	0.003	101	0.003	106	0.003	ND	0.003
Total Sulfur (S)	mg/L	647	0.065	312	0.065	N/A	0.065	103	0.065	N/A	0.065	ND	0.065
Total Arsenic (As)	mg/L	ND	0.04	ND	0.04	99	0.04	97	0.04	110	0.04	ND	0.04
Total Thallium (Tl)	mg/L	ND	0.05	ND	0.05	99	0.05	94	0.05	118	0.05	ND	0.05
Total Tin (Sn)	mg/L	ND	0.018	ND	0.018	95	0.018	101	0.018	108	0.018	ND	0.018
Total Titanium (Ti)	mg/L	ND	0.003	ND	0.003	99	0.003	101	0.003	108	0.003	ND	0.003
Total Tungsten (W)	mg/L	ND	0.03	ND	0.03	N/A	0.03	98	0.03	N/A	0.03	ND	0.03
Total Vanadium (V)	mg/L	0.005	0.003	ND	0.003	97	0.003	98	0.003	106	0.003	ND	0.003
Total Zinc (Zn)	mg/L	0.682	0.003	0.499	0.003	99	0.003	99	0.003	106	0.003	ND	0.003
Total Barium (Ba)	mg/L	0.017	0.001	0.019	0.001	100	0.001	99	0.001	107	0.001	ND	0.001
Total Beryllium (Be)	mg/L	ND	0.001	ND	0.001	96	0.001	100	0.001	103	0.001	ND	0.001
Total Bismuth (Bi)	mg/L	ND	0.023	ND	0.023	93	0.023	99	0.023	106	0.023	ND	0.023
Total Boron (B)	mg/L	0.036	0.005	0.175	0.005	81	0.005	100	0.005	109	0.005	ND	0.005
Total Cadmium (Cd)	mg/L	ND	0.003	ND	0.003	98	0.003	97	0.003	104	0.003	ND	0.003
Total Calcium (Ca)	mg/L	512	0.04	1010	0.04	N/A	0.04	104	0.04	N/A	0.04	ND	0.04
Total Ammonia-N	mg/L	27.9	0.5	14.1	0.5	N/A	N/A	111	0.05	109	0.05	ND	0.05
Total pH	pH	8.73	0.01	10.1	0.01	N/A	N/A	100	0.01	N/A	N/A	N/A	N/A
Sulphide	mg/L	ND	0.02	ND	0.02	N/A	N/A	100	0.02	N/A	N/A	ND	0.02
Dissolved Total Dissolved Solids (TDS)	mg/L	3140	1	4510	1	N/A	N/A	101	1	N/A	N/A	ND	1
Dissolved Aluminum (Al)	mg/L	ND	0.04	ND	0.04	N/A	N/A	97	0.04	N/A	N/A	ND	0.04
Dissolved Chromium (Cr)	mg/L	ND	0.005	ND	0.005	N/A	N/A	99	0.005	N/A	N/A	ND	0.005
Dissolved Cobalt (Co)	mg/L	ND	0.005	ND	0.005	N/A	N/A	99	0.005	N/A	N/A	ND	0.005
Dissolved Copper (Cu)	mg/L	ND	0.004	ND	0.004	N/A	N/A	99	0.004	N/A	N/A	ND	0.004
Dissolved Iron (Fe)	mg/L	0.013	0.006	ND	0.006	N/A	N/A	104	0.006	N/A	N/A	ND	0.006
Dissolved Lead (Pb)	mg/L	ND	0.025	ND	0.025	N/A	N/A	97	0.025	N/A	N/A	ND	0.025
Dissolved Lithium (Li)	mg/L	0.06	0.02	0.43	0.02	N/A	N/A	99	0.02	N/A	N/A	ND	0.02
Dissolved Magnesium (Mg)	mg/L	155	0.003	5.53	0.003	N/A	N/A	104	0.003	N/A	N/A	ND	0.003
Dissolved Manganese (Mn)	mg/L	0.096	0.002	ND	0.002	N/A	N/A	98	0.002	N/A	N/A	ND	0.002
Dissolved Antimony (Sb)	mg/L	0.3	0.1	0.1	0.1	N/A	N/A	97	0.1	N/A	N/A	ND	0.1
Dissolved Molybdenum (Mo)	mg/L	0.007	0.006	0.082	0.006	N/A	N/A	98	0.006	N/A	N/A	ND	0.006
Dissolved Nickel (Ni)	mg/L	ND	0.01	ND	0.01	N/A	N/A	101	0.01	N/A	N/A	ND	0.01
Dissolved Phosphorus Total (P)	mg/L	ND	0.04	ND	0.04	N/A	N/A	101	0.04	N/A	N/A	ND	0.04
Dissolved Potassium (K)	mg/L	97.8	1	118	1	N/A	N/A	97	1	N/A	N/A	ND	1
Dissolved Selenium (Se)	mg/L	ND	0.33	ND	0.33	N/A	N/A	100	0.33	N/A	N/A	ND	0.33
Dissolved Silicon (Si)	mg/L	0.24	0.02	0.56	0.02	N/A	N/A	98	0.02	N/A	N/A	ND	0.02
Dissolved Silver (Ag)	mg/L	ND	0.007	ND	0.007	N/A	N/A	100	0.007	N/A	N/A	ND	0.007
Dissolved Sodium (Na)	mg/L	76.2	0.09	95.4	0.09	N/A	N/A	100	0.09	N/A	N/A	ND	0.09
Dissolved Strontium (Sr)	mg/L	2.03	0.003	12.1	0.003	N/A	N/A	99	0.003	N/A	N/A	ND	0.003
Dissolved Sulfur (S)	mg/L	590	0.065	1010	0.065	N/A	N/A	100	0.065	N/A	N/A	ND	0.065
Dissolved Arsenic (As)	mg/L	ND	0.04	ND	0.04	N/A	N/A	91	0.04	N/A	N/A	ND	0.04
Dissolved Thallium (Tl)	mg/L	ND	0.05	0.05	0.05	N/A	N/A	100	0.05	N/A	N/A	ND	0.05
Dissolved Tin (Sn)	mg/L	ND	0.018	ND	0.018	N/A	N/A	101	0.018	N/A	N/A	ND	0.018
Dissolved Titanium (Ti)	mg/L	ND	0.003	ND	0.003	N/A	N/A	96	0.003	N/A	N/A	ND	0.003
Dissolved Tungsten (W)	mg/L	ND	0.03	ND	0.03	N/A	N/A	94	0.03	N/A	N/A	ND	0.03
Dissolved Vanadium (V)	mg/L	ND	0.003	ND	0.003	N/A	N/A	98	0.003	N/A	N/A	ND	0.003
Dissolved Zinc (Zn)	mg/L	0.025	0.003	0.013	0.003	N/A	N/A	97	0.003	N/A	N/A	ND	0.003
Dissolved Barium (Ba)	mg/L	0.026	0.001	0.05	0.001	N/A	N/A	101	0.001	N/A	N/A	ND	0.001
Dissolved Beryllium (Be)	mg/L	ND	0.001	ND	0.001	N/A	N/A	98	0.001	N/A	N/A	ND	0.001
Dissolved Bismuth (Bi)	mg/L	ND	0.023	ND	0.023	N/A	N/A	103	0.023	N/A	N/A	ND	0.023
Dissolved Boron (B)	mg/L	0.032	0.005	0.191	0.005	N/A	N/A	99	0.005	N/A	N/A	ND	0.005
Dissolved Cadmium (Cd)	mg/L	ND	0.003	ND	0.003	N/A	N/A	100	0.003	N/A	N/A	ND	0.003
Dissolved Calcium (Ca)	mg/L	549	0.04	938	0.04	N/A	N/A	98	0.04	N/A	N/A	ND	0.04

ND = Not detected
N/A = Not Applicable
TBA = Result to follow
MDL = METHOD DETECTION LIMIT
QC = QC Standard