

Quality Assurance Report
 Maxxam Job Number: CA317273

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
343427 DS4	Calibration Check	F2 (C10-C16 Hydrocarbons)	2003/09/02		94	%	85 - 115
		F3 (C16-C34 Hydrocarbons)	2003/09/02		106	%	85 - 115
		F4 (C34-C50 Hydrocarbons)	2003/09/02		101	%	85 - 115
	QC STANDARD	F2 (C10-C16 Hydrocarbons)	2003/09/02		53	%	50 - 120
		F3 (C16-C34 Hydrocarbons)	2003/09/02		103	%	80 - 120
		F4 (C34-C50 Hydrocarbons)	2003/09/02		100	%	80 - 120
	SPIKE	F2 (C10-C16 Hydrocarbons)	2003/09/02		80	%	80 - 120
		F3 (C16-C34 Hydrocarbons)	2003/09/02		83	%	80 - 120
		F4 (C34-C50 Hydrocarbons)	2003/09/02		90	%	80 - 120
	BLANK	F2 (C10-C16 Hydrocarbons)	2003/09/02	ND		mg/kg	
		F3 (C16-C34 Hydrocarbons)	2003/09/02	ND		mg/kg	
		F4 (C34-C50 Hydrocarbons)	2003/09/02	ND		mg/kg	
	RPD	Reached Baseline at C50	2003/09/02	YES		mg/kg	
		F2 (C10-C16 Hydrocarbons)	2003/09/02	NC		%	N/A
		F3 (C16-C34 Hydrocarbons)	2003/09/02	NC		%	N/A
		F4 (C34-C50 Hydrocarbons)	2003/09/02	NC		%	N/A
		Reached Baseline at C50	2003/09/02	NC		%	N/A
343428 NS3	BLANK	F4G sg (Gravimetric HC-Silica Gel)	2003/09/02	ND		mg/kg	
	RPD	F4G sg (Gravimetric HC-Silica Gel)	2003/09/02	NC		%	N/A
347082 TN	RPD	Moisture	2003/09/03	NC		%	N/A
		Moisture	2003/09/03	NC		%	N/A

ND = Not detected
 N/A = Not Applicable
 NC = Non-calculable
 RPD = Relative Percent Difference

Calgary: 2021 - 41st Avenue N.E. T2E 6P2 Telephone(403) 291-3077 FAX(403) 291-9468

Maxxam Job #: A330703
Report Date: 2004/01/08

Gartner Lee Ltd
Client Project #: 23635
Site Reference: NANISIVIK, NUNAVUT
Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (SOLID)

Maxxam ID		A77619		A77849		A77859		
Sampling Date		2003/08/09		2003/08/09		2003/08/09		
	Units	TP03-301-1 09/08/03	DL	TP03-310-1 09/08/03	DL	TP03-304-1 09/08/03	DL	QA Batch

METALS								
Total Aluminum (Al)	ug/g	10800	4	9670	40	13800	4	508110
Total Antimony (Sb)	ug/g	46	10	ND	100	76	10	508110
Total Arsenic (As)	ug/g	37.7	4	ND	40	14.3	4	508110
Total Barium (Ba)	ug/g	51.5	0.1	28.2	0.1	57.3	0.1	508110
Total Beryllium (Be)	ug/g	0.5	0.1	ND	1	0.5	0.1	508110
Total Bismuth (Bi)	ug/g	5.6	2.3	ND	23	ND	2.3	508110
Total Boron (B)	ug/g	17.9	0.5	14.6	5	27.8	0.5	508110
Total Cadmium (Cd)	ug/g	243	0.3	513	3	26.5	0.3	508110
Total Calcium (Ca)	ug/g	66900	4	54900	40	77500	4	508110
Total Chromium (Cr)	ug/g	13.1	0.5	11.8	5	23.1	0.5	508110
Total Cobalt (Co)	ug/g	11.2	0.5	23.9	5	9.6	0.5	508110
Total Copper (Cu)	ug/g	153	0.4	339	4	245	0.4	508110
Total Iron (Fe)	ug/g	31000	0.6	41900	0.6	27900	0.6	508110
Total Lead (Pb)	ug/g	3130	2.5	3580	25	300	2.5	508110
Total Lithium (Li)	ug/g	49.7	2	54.0	2	66.2	2	508110
Total Magnesium (Mg)	ug/g	50900	0.3	46900	3	67200	3	508110
Total Manganese (Mn)	ug/g	266	0.15	267	0.15	335	0.15	508110
Total Molybdenum (Mo)	ug/g	ND	0.6	ND	0.6	ND	0.6	508110
Total Nickel (Ni)	ug/g	16.9	1	27.1	1	20.0	1	508110
Total Phosphorus Total (P)	ug/g	66.6	4	ND	40	69.7	4	508110
Total Potassium (K)	ug/g	2040	100	2330	100	2700	100	508110
Total Selenium (Se)	ug/g	ND	3.3	ND	33	ND	3.3	508110
Total Silicon (Si)	ug/g	1480	2	1470	20	1720	2	508110
Total Silver (Ag)	ug/g	32.5	0.7	46.6	7	3.1	0.7	508110
Total Sodium (Na)	ug/g	200	9	153	9	324	9	508110
Total Strontium (Sr)	ug/g	43.0	0.3	41.9	0.3	48.3	0.3	508110
Total Sulfur (S)	ug/g	48500	6.5	95900	65	7900	6.5	508110
Total Thallium (Tl)	ug/g	27.7	5	ND	50	10.1	5	508110
Total Tin (Sn)	ug/g	ND	1.8	ND	18	ND	1.8	508110
Total Titanium (Ti)	ug/g	142	0.3	118	3	263	0.3	508110
Total Tungsten (W)	ug/g	411	3	45	30	ND	30	508110
Total Vanadium (V)	ug/g	26.1	0.3	25.2	3	39.5	0.3	508110

ND = Not detected
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Sampling Date		2003/08/09		2003/08/09		2003/08/09		
	Units	TP03-301-1 09/08/03	DL	TP03-310-1 09/08/03	DL	TP03-304-1 09/08/03	DL	QA Batch

Total Zinc (Zn)	ug/g	88200	0.3	180000	0.3	9570	3	508110
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Please check for attached comments

Maxxam ID		A77860		A77873		A77880		A77891	
Sampling Date		2003/08/09		2003/08/12		2003/08/12		2003/08/12	
	Units	TP03-311-1 09/08/03	TP03-329-1 12/08/03	DL	TP03-329-2 12/08/03	DL	TP03-331-1 12/08/03	DL	QA Batch

METALS									
Total Aluminum (Al)	ug/g			4	10600	4		4	508110
Total Antimony (Sb)	ug/g			10	53	10		10	508110
Total Arsenic (As)	ug/g			4	14.7	4		4	508110
Total Barium (Ba)	ug/g			0.1	27.9	0.1		0.1	508110
Total Beryllium (Be)	ug/g			0.1	0.4	0.1		0.1	508110
Total Bismuth (Bi)	ug/g			2.3	ND	2.3		2.3	508110
Total Boron (B)	ug/g			0.5	19.4	0.5		0.5	508110
Total Cadmium (Cd)	ug/g	7.5	19.3	0.3	4.6	0.3	19.0	0.3	508110
Total Calcium (Ca)	ug/g			4	85700	4		4	508110
Total Chromium (Cr)	ug/g			0.5	11.8	0.5		0.5	508110
Total Cobalt (Co)	ug/g			0.5	8.0	0.5		0.5	508110
Total Copper (Cu)	ug/g			0.4	22.3	0.4		0.4	508110
Total Iron (Fe)	ug/g			0.6	23900	0.6		0.6	508110
Total Lead (Pb)	ug/g	87.8	473	2.5	161	2.5	1350	2.5	508110
Total Lithium (Li)	ug/g			2	51.9	2		2	508110
Total Magnesium (Mg)	ug/g			3	69000	3		3	508110
Total Manganese (Mn)	ug/g			0.15	326	0.15		0.15	508110
Total Molybdenum (Mo)	ug/g			0.6	0.8	0.6		0.6	508110
Total Nickel (Ni)	ug/g			1	13.6	1		1	508110
Total Phosphorus Total (P)	ug/g			4	190	4		4	508110
Total Potassium (K)	ug/g			100	2030	100		100	508110
Total Selenium (Se)	ug/g			3.3	ND	3.3		3.3	508110
Total Silicon (Si)	ug/g			2	1070	2		2	508110
Total Silver (Ag)	ug/g			0.7	ND	0.7		0.7	508110

ND = Not detected

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ELEMENTS BY ATOMIC SPECTROSCOPY (SOLID)

Maxxam ID		A77860	A77873		A77880		A77891		
Sampling Date		2003/08/09	2003/08/12		2003/08/12		2003/08/12		
	Units	TP03-311-1 09/08/03	TP03-329-1 12/08/03	DL	TP03-329-2 12/08/03	DL	TP03-331-1 12/08/03	DL	QA Batch

Total Sodium (Na)	ug/g			9	230	9		9	508110
Total Strontium (Sr)	ug/g			0.3	45.1	0.3		0.3	508110
Total Sulfur (S)	ug/g			6.5	5700	6.5		6.5	508110
Total Thallium (Tl)	ug/g			5	10.8	5		5	508110
Total Tin (Sn)	ug/g			1.8	ND	1.8		1.8	508110
Total Titanium (Ti)	ug/g			0.3	123	0.3		0.3	508110
Total Tungsten (W)	ug/g			30	ND	3		3	508110
Total Vanadium (V)	ug/g			0.3	26.3	0.3		0.3	508110
Total Zinc (Zn)	ug/g	2710	6760	0.3	1670	3	7160	0.3	508110

ND = Not detected
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Maxxam ID		A77916	A77919		A77925		A77926		
Sampling Date		2003/08/12	2003/08/12		2003/08/11		2003/08/11		
	Units	TP03-333-1 12/08/03	TP03-334-1 12/08/03	DL	TP03-312-1 11/08/03	DL	TP03-312-2 11/08/03	DL	QA Batch

METALS									
Total Aluminum (Al)	ug/g			4	7410	40		40	508110
Total Antimony (Sb)	ug/g			10	ND	100		100	508110
Total Arsenic (As)	ug/g			4	ND	40		40	508110
Total Barium (Ba)	ug/g			0.1	29.4	0.1		0.1	508110
Total Beryllium (Be)	ug/g			0.1	ND	1		1	508110
Total Bismuth (Bi)	ug/g			2.3	ND	23		23	508110
Total Boron (B)	ug/g			0.5	19.7	5		5	508110
Total Cadmium (Cd)	ug/g	91.7	22.6	0.3	495	3	5.3	0.3	508110
Total Calcium (Ca)	ug/g			4	57400	40			508110
Total Chromium (Cr)	ug/g			0.5	7	5			508110
Total Cobalt (Co)	ug/g			0.5	12.9	5			508110
Total Copper (Cu)	ug/g			0.4	136	4			508110
Total Iron (Fe)	ug/g			0.6	39700	0.6			508110
Total Lead (Pb)	ug/g	2330	705	2.5	13800	25	177	2.5	508110
Total Lithium (Li)	ug/g			2	36.5	2			508110
Total Magnesium (Mg)	ug/g			3	37400	3			508110

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Maxxam ID		A77916	A77919		A77925		A77926		
Sampling Date		2003/08/12	2003/08/12		2003/08/11		2003/08/11		
	Units	TP03-333-1 12/08/03	TP03-334-1 12/08/03	DL	TP03-312-1 11/08/03	DL	TP03-312-2 11/08/03	DL	QA Batch

Total Manganese (Mn)	ug/g			0.15	194	0.15			508110
Total Molybdenum (Mo)	ug/g			0.6	ND	0.6			508110
Total Nickel (Ni)	ug/g			1	12.4	1			508110
Total Phosphorus Total (P)	ug/g			4	ND	40			508110
Total Potassium (K)	ug/g			100	1480	100			508110
Total Selenium (Se)	ug/g			3.3	ND	33			508110
Total Silicon (Si)	ug/g			2	979	20			508110
Total Silver (Ag)	ug/g			0.7	63.5	7			508110
Total Sodium (Na)	ug/g			9	278	9			508110
Total Strontium (Sr)	ug/g			0.3	64.7	0.3			508110
Total Sulfur (S)	ug/g			6.5	90200	65			508110
Total Thallium (Tl)	ug/g			5	ND	50			508110
Total Tin (Sn)	ug/g			1.8	ND	18			508110
Total Titanium (Ti)	ug/g			0.3	109	3			508110
Total Tungsten (W)	ug/g			3	30	30			508110
Total Vanadium (V)	ug/g			0.3	16.3	3			508110
Total Zinc (Zn)	ug/g	32500	8450	0.3	165000	0.3	1830	0.3	508110

ND = Not detected
Please check for attached comments

Maxxam ID		A77927	A77929	A77930		A77931	A77932		
Sampling Date		2003/08/11	2003/08/11	2003/08/11		2003/08/11	2003/08/11		
	Units	TP03-313-1 11/08/03	TP03-314-1 11/08/03	TP03-315-1 11/08/03	DL	TP03-316-1 11/08/03	TP03-317-1 11/08/03	DL	QA Batch

METALS									
Total Aluminum (Al)	ug/g				40	15200		4	508110
Total Antimony (Sb)	ug/g				100	58		10	508110
Total Arsenic (As)	ug/g				40	15.1		4	508110
Total Barium (Ba)	ug/g				0.1	92.4		0.1	508110
Total Beryllium (Be)	ug/g				1	0.7		0.1	508110
Total Bismuth (Bi)	ug/g				23	ND		2.3	508110
Total Boron (B)	ug/g				5	17.2		0.5	508110
Total Cadmium (Cd)	ug/g	13.1	12.0	29.7	0.3	4.6	33.3	0.3	508110

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Maxxam ID	A77927	A77929	A77930	A77931	A77932		
Sampling Date	2003/08/11	2003/08/11	2003/08/11	2003/08/11	2003/08/11		
	Units	TP03-313-1 11/08/03	TP03-314-1 11/08/03	TP03-315-1 11/08/03	DL	TP03-316-1 11/08/03	TP03-317-1 11/08/03
						DL	QA Batch

Total Calcium (Ca)	ug/g					48900		4	508110
Total Chromium (Cr)	ug/g					18.1		0.5	508110
Total Cobalt (Co)	ug/g					11.6		0.5	508110
Total Copper (Cu)	ug/g					33.7		0.4	508110
Total Iron (Fe)	ug/g					28600		0.6	508110
Total Lead (Pb)	ug/g	316	304	600	2.5	123	615	2.5	508110
Total Lithium (Li)	ug/g					55.4		2	508110
Total Magnesium (Mg)	ug/g					49900		3	508110
Total Manganese (Mn)	ug/g					402		0.15	508110
Total Molybdenum (Mo)	ug/g					ND		0.6	508110
Total Nickel (Ni)	ug/g					22.9		1	508110
Total Phosphorus Total (P)	ug/g					332		4	508110
Total Potassium (K)	ug/g					1960		100	508110
Total Selenium (Se)	ug/g					ND		3.3	508110
Total Silicon (Si)	ug/g					1030		2	508110
Total Silver (Ag)	ug/g					ND		0.7	508110
Total Sodium (Na)	ug/g					220		9	508110
Total Strontium (Sr)	ug/g					27.5		0.3	508110
Total Sulfur (S)	ug/g					2090		6.5	508110
Total Thallium (Tl)	ug/g					7		5	508110
Total Tin (Sn)	ug/g					ND		1.8	508110
Total Titanium (Ti)	ug/g					194		0.3	508110
Total Tungsten (W)	ug/g					ND		3	508110
Total Vanadium (V)	ug/g					38.3		0.3	508110
Total Zinc (Zn)	ug/g	4860	4530	10400	0.3	1470	11.4	0.3	508110

ND = Not detected
Please check for attached comments

Maxxam ID	A77934	A77936	A77938	A77950		
Sampling Date	2003/08/11	2003/08/11	2003/08/11	2003/08/11		
	Units	TP03-319-1 11/08/03	TP03-321-1 11/08/03	DL	TP03-323-1 11/08/03	TP03-324-1 11/08/03
						DL
						QA Batch

METALS									
Total Cadmium (Cd)	ug/g	26.1	20.3	0.3	59.8	0.3	2.2	0.3	508110
Total Lead (Pb)	ug/g	927	680	2.5	1210	2.5	97.9	2.5	508110

Please check for attached comments

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Maxxam ID		A77934	A77935		A77938		A77950		
Sampling Date		2003/08/11	2003/08/11		2003/08/11		2003/08/11		
	Units	TP03-319-1 11/08/03	TP03-321-1 11/08/03	DL	TP03-323-1 11/08/03	DL	TP03-324-1 11/08/03	DL	QA Batch

Total Zinc (Zn)	ug/g	8240	6050	0.3	21200	3	912	0.3	508110
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Please check for attached comments

Maxxam ID		A77971		A77973		A77975		
Sampling Date		2003/08/11		2003/08/11		2003/08/11		
	Units	TP03-325-1 11/08/03	DL	TP03-326-1 11/08/03	DL	TP03-326-2 11/08/03	DL	QA Batch

METALS									
Total Aluminum (Al)	ug/g		4	9120	4		4	508110	
Total Antimony (Sb)	ug/g		10	58	10		10	508110	
Total Arsenic (As)	ug/g		4	20.7	4		4	508110	
Total Barium (Ba)	ug/g		0.1	47.8	0.1		0.1	508110	
Total Beryllium (Be)	ug/g		0.1	0.4	0.1		0.1	508110	
Total Bismuth (Bi)	ug/g		2.3	ND	2.3		2.3	508110	
Total Boron (B)	ug/g		0.5	20.9	0.5		0.5	508110	
Total Cadmium (Cd)	ug/g	19.5	0.3	72.3	0.3	5.7	0.3	508110	
Total Calcium (Ca)	ug/g		4	72300	4		4	508110	
Total Chromium (Cr)	ug/g		0.5	10.3	0.5		0.5	508110	
Total Cobalt (Co)	ug/g		0.5	9.8	0.5		0.5	508110	
Total Copper (Cu)	ug/g		0.4	45.5	0.4		0.4	508110	
Total Iron (Fe)	ug/g		0.6	44300	0.6		0.6	508110	
Total Lead (Pb)	ug/g	549	2.5	2230	2.5	307	2.5	508110	
Total Lithium (Li)	ug/g		2	44.6	2		2	508110	
Total Magnesium (Mg)	ug/g		3	58000	3		3	508110	
Total Manganese (Mn)	ug/g		0.15	245	0.15		0.15	508110	
Total Molybdenum (Mo)	ug/g		0.6	ND	0.6		0.6	508110	
Total Nickel (Ni)	ug/g		1	13.0	1		1	508110	
Total Phosphorus Total (P)	ug/g		4	149	4		4	508110	
Total Potassium (K)	ug/g		100	1640	100		100	508110	
Total Selenium (Se)	ug/g		3.3	ND	3.3		3.3	508110	
Total Silicon (Si)	ug/g		2	1490	2		2	508110	
Total Silver (Ag)	ug/g		0.7	10.6	0.7		0.7	508110	
ND = Not detected Please check for attached comments									

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Maxxam ID		A77971		A77973		A77975		
Sampling Date		2003/08/11		2003/08/11		2003/08/11		
	Units	TP03-325-1 11/08/03	DL	TP03-326-1 11/08/03	DL	TP03-326-2 11/08/03	DL	QA Batch

Total Sodium (Na)	ug/g		9	180	9		9	508110
Total Strontium (Sr)	ug/g		0.3	44.2	0.3		0.3	508110
Total Sulfur (S)	ug/g		6.5	44100	6.5		6.5	508110
Total Thallium (Tl)	ug/g		5	8	5		5	508110
Total Tin (Sn)	ug/g		1.8	ND	18		18	508110
Total Titanium (Ti)	ug/g		0.3	107	0.3		0.3	508110
Total Tungsten (W)	ug/g		3	ND	3		3	508110
Total Vanadium (V)	ug/g		0.3	19.6	0.3		0.3	508110
Total Zinc (Zn)	ug/g	6180	0.3	22000	3	1720	0.3	508110

ND = Not detected
Please check for attached comments

Maxxam ID		A77976		A77977		A77979		
Sampling Date		2003/08/11		2003/08/11		2003/08/12		
	Units	TP03-327-1 11/08/03	DL	TP03-327-2 11/08/03	DL	TP03-330-1 12/08/03	DL	QA Batch

METALS								
Total Aluminum (Al)	ug/g	12900	4		4		4	508110
Total Antimony (Sb)	ug/g	49	10		10		10	508110
Total Arsenic (As)	ug/g	11.4	4		4		4	508110
Total Barium (Ba)	ug/g	53.4	0.1		0.1		0.1	508110
Total Beryllium (Be)	ug/g	0.5	0.1		0.1		0.1	508110
Total Bismuth (Bi)	ug/g	ND	2.3		2.3		2.3	508110
Total Boron (B)	ug/g	24.7	0.5		0.5		0.5	508110
Total Cadmium (Cd)	ug/g	33.2	0.3	1.9	0.3	61.2	0.3	508110
Total Calcium (Ca)	ug/g	75400	4		4		4	508110
Total Chromium (Cr)	ug/g	15.2	0.5		0.5		0.5	508110
Total Cobalt (Co)	ug/g	11.2	0.5		0.5		0.5	508110
Total Copper (Cu)	ug/g	43.7	0.4		0.4		0.4	508110
Total Iron (Fe)	ug/g	31300	0.6		0.6		0.6	508110
Total Lead (Pb)	ug/g	522	2.5	120	2.5	1810	2.5	508110
Total Lithium (Li)	ug/g	55.7	2		2		2	508110
Total Magnesium (Mg)	ug/g	65200	3		3		3	508110

ND = Not detected
Please check for attached comments

Maxxam Job #: A330703
Report Date: 2004/01/08

Gartner Lee Ltd
Client Project #: 23635
Site Reference: NANISIVIK, NUNAVUT
Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (SOLID)

Maxxam ID		A77976		A77977		A77979		
Sampling Date		2003/08/11		2003/08/11		2003/08/12		
	Units	TP03-327-1 11/08/03	DL	TP03-327-2 11/08/03	DL	TP03-330-1 12/08/03	DL	QA Batch

Total Manganese (Mn)	ug/g	328	0.15		0.15		0.15	508110
Total Molybdenum (Mo)	ug/g	ND	0.6		0.6		0.6	508110
Total Nickel (Ni)	ug/g	17.1	1		1		1	508110
Total Phosphorus Total (P)	ug/g	214	4		4		4	508110
Total Potassium (K)	ug/g	2690	100		100		100	508110
Total Selenium (Se)	ug/g	ND	3.3		3.3		3.3	508110
Total Silicon (Si)	ug/g	1550	2		2		2	508110
Total Silver (Ag)	ug/g	4.7	0.7		0.7		0.7	508110
Total Sodium (Na)	ug/g	219	9		9		9	508110
Total Strontium (Sr)	ug/g	50.2	0.3		0.3		0.3	508110
Total Sulfur (S)	ug/g	17800	6.5		6.5		6.5	508110
Total Thallium (Tl)	ug/g	10.6	5		5		5	508110
Total Tin (Sn)	ug/g	ND	1.8		1.8		1.8	508110
Total Titanium (Ti)	ug/g	149	0.3		0.3		0.3	508110
Total Tungsten (W)	ug/g	L0.00000	3		3		3	508110
Total Vanadium (V)	ug/g	31.5	0.3		0.3		0.3	508110
Total Zinc (Zn)	ug/g	12600	3	683	0.3	21600	3	508110

ND = Not detected
Please check for attached comments

Maxxam ID		A77980		A77981		A77982	A78025		
Sampling Date		2003/08/12		2003/08/12		2003/08/12	2003/08/13		
	Units	TP03-330-2 12/08/03	DL	TP03-335-1 12/08/03	DL	TP03-337-1 12/08/03	TP03-342-1 13/08/03	DL	QA Batch

METALS									
Total Aluminum (Al)	ug/g	12500	4		4			4	508110
Total Antimony (Sb)	ug/g	49	10		10			10	508110
Total Arsenic (As)	ug/g	14.8	4		4			4	508110
Total Barium (Ba)	ug/g	60.2	0.1		0.1			0.1	508110
Total Beryllium (Be)	ug/g	0.5	0.1		0.1			0.1	508110
Total Bismuth (Bi)	ug/g	ND	2.3		2.3			2.3	508110
Total Boron (B)	ug/g	23.2	0.5		0.5			0.5	508110
Total Cadmium (Cd)	ug/g	16.3	0.3	20.5	3	8.6	4.1	0.3	508110

ND = Not detected
Please check for attached comments

Maxxam Job #: A330703
Report Date: 2004/01/08

Gartner Lee Ltd
Client Project #: 23635
Site Reference: NANISIVIK, NUNAVUT
Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (SOLID)

Maxxam ID		A77980		A77981		A77982	A78025		
Sampling Date		2003/08/12		2003/08/12		2003/08/12	2003/08/13		
	Units	TP03-330-2 12/08/03	DL	TP03-335-1 12/08/03	DL	TP03-337-1 12/08/03	TP03-342-1 13/08/03	DL	QA Batch

Total Calcium (Ca)	ug/g	72800	4						508110
Total Chromium (Cr)	ug/g	14.4	0.5						508110
Total Cobalt (Co)	ug/g	10.0	0.5						508110
Total Copper (Cu)	ug/g	33.4	0.4						508110
Total Iron (Fe)	ug/g	26400	0.6						508110
Total Lead (Pb)	ug/g	532	2.5	2990	2.5	460	178	2.5	508110
Total Lithium (Li)	ug/g	55.9	2						508110
Total Magnesium (Mg)	ug/g	63700	3						508110
Total Manganese (Mn)	ug/g	332	0.15						508110
Total Molybdenum (Mo)	ug/g	ND	0.6						508110
Total Nickel (Ni)	ug/g	17.1	1						508110
Total Phosphorus Total (P)	ug/g	215	4						508110
Total Potassium (K)	ug/g	2430	100						508110
Total Selenium (Se)	ug/g	ND	33						508110
Total Silicon (Si)	ug/g	1470	2						508110
Total Silver (Ag)	ug/g	2.6	0.7						508110
Total Sodium (Na)	ug/g	216	9						508110
Total Strontium (Sr)	ug/g	54.2	0.3						508110
Total Sulfur (S)	ug/g	8360	6.5						508110
Total Thallium (Tl)	ug/g	18.5	5						508110
Total Tin (Sn)	ug/g	ND	1.8						508110
Total Titanium (Ti)	ug/g	143	0.3						508110
Total Tungsten (W)	ug/g	ND	30						508110
Total Vanadium (V)	ug/g	31.8	0.3						508110
Total Zinc (Zn)	ug/g	5790	3	7590	3	2570	1400	0.3	508110

ND = Not detected
Please check for attached comments

Maxxam ID		A78026		A78056		A78056		
Sampling Date		2003/08/13		2003/08/09		2003/08/09		
	Units	TP03-345-1 13/08/03	DL	TP03-309-1 09/08/03	DL	TP03-309-1 09/08/03 Dup	DL	QA Batch

METALS								
Total Aluminum (Al)	ug/g		4	14400	4	14600	4	508110
Please check for attached comments								

Maxxam Job #: A330703
Report Date: 2004/01/08

Gartner Lee Ltd
Client Project #: 23635
Site Reference: NANISIVIK, NUNAVUT
Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (SOLID)

Maxxam ID		A78026		A78056		A78056		
Sampling Date		2003/08/13		2003/08/09		2003/08/09		
	Units	TP03-345-1 13/08/03	DL	TP03-309-1 09/08/03	DL	TP03-309-1 09/08/03 Dup	DL	QA Batch
Total Antimony (Sb)	ug/g		10	59	10	60	10	508110
Total Arsenic (As)	ug/g		4	13.3	4	15.9	4	508110
Total Barium (Ba)	ug/g		0.1	53.1	0.1	55.0	0.1	508110
Total Beryllium (Be)	ug/g		0.1	0.6	0.1	0.6	0.1	508110
Total Bismuth (Bi)	ug/g		2.3	ND	2.3	ND	2.3	508110
Total Boron (B)	ug/g		0.5	36.1	0.5	35.9	0.5	508110
Total Cadmium (Cd)	ug/g	1.4	0.3	51.8	0.3	55.7	0.3	508110
Total Calcium (Ca)	ug/g		4	71300	4	72300	4	508110
Total Chromium (Cr)	ug/g		0.5	18.6	0.5	18.1	0.5	508110
Total Cobalt (Co)	ug/g		0.5	9.5	0.5	9.1	0.5	508110
Total Copper (Cu)	ug/g		0.4	123	0.4	132	0.4	508110
Total Iron (Fe)	ug/g		0.6	25300	0.6	26200	0.6	508110
Total Lead (Pb)	ug/g	61.0	2.5	1620	2.5	1820	2.5	508110
Total Lithium (Li)	ug/g		2	69.2	2	69.2	2	508110
Total Magnesium (Mg)	ug/g		3	64900	3	65000	3	508110
Total Manganese (Mn)	ug/g		0.15	282	0.15	285	0.15	508110
Total Molybdenum (Mo)	ug/g		0.6	ND	0.6	ND	0.6	508110
Total Nickel (Ni)	ug/g		1	18.0	1	19.8	1	508110
Total Phosphorus Total (P)	ug/g		4	191	4	180	4	508110
Total Potassium (K)	ug/g		100	3140	100	2960	100	508110
Total Selenium (Se)	ug/g		3.3	ND	3.3	ND	33	508110
Total Silicon (Si)	ug/g		2	1290	2	1420	2	508110
Total Silver (Ag)	ug/g		0.7	8.2	0.7	8.3	0.7	508110
Total Sodium (Na)	ug/g		9	418	9	415	9	508110
Total Strontium (Sr)	ug/g		0.3	56.8	0.3	58.2	0.3	508110
Total Sulfur (S)	ug/g		6.5	17000	6.5	18500	6.5	508110
Total Thallium (Tl)	ug/g		5	10.5	5	11.1	5	508110
Total Tin (Sn)	ug/g		1.8	ND	1.8	ND	1.8	508110
Total Titanium (Ti)	ug/g		0.3	160	0.3	174	0.3	508110
Total Tungsten (W)	ug/g		3	ND	3	ND	30	508110
Total Vanadium (V)	ug/g		0.3	34.0	0.3	34.9	0.3	508110
Total Zinc (Zn)	ug/g	578	0.3	19100	3	20700	3	508110
ND = Not detected Please check for attached comments								

Maxxam Job #: A330703
Report Date: 2004/01/08

Gartner Lee Ltd
Client Project #: 23635
Site Reference: NANISIVIK, NUNAVUT
Sampler Initials:

Results relate only to the items tested.

Quality Assurance Report

Maxxam Job Number: MA330703

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
508110 ISI	QC STANDARD	Total Aluminum (Al)	2003/08/25		100	%	66 - 133
		Total Antimony (Sb)	2003/08/25		85	%	67 - 133
		Total Arsenic (As)	2003/08/25		95	%	80 - 126
		Total Barium (Ba)	2003/08/25		99	%	83 - 119
		Total Beryllium (Be)	2003/08/25		101	%	76 - 119
		Total Bismuth (Bi)	2003/08/25		107	%	74 - 122
		Total Boron (B)	2003/08/25		101	%	77 - 121
		Total Cadmium (Cd)	2003/08/25		98	%	75 - 117
		Total Calcium (Ca)	2003/08/25		102	%	90 - 110
		Total Chromium (Cr)	2003/08/25		98	%	90 - 110
		Total Cobalt (Co)	2003/08/25		98	%	77 - 119
		Total Copper (Cu)	2003/08/25		99	%	73 - 120
		Total Iron (Fe)	2003/08/25		105	%	80 - 136
		Total Lead (Pb)	2003/08/25		98	%	76 - 119
		Total Lithium (Li)	2003/08/25		100	%	76 - 123
		Total Magnesium (Mg)	2003/08/25		107	%	93 - 114
		Total Manganese (Mn)	2003/08/25		99	%	85 - 115
		Total Molybdenum (Mo)	2003/08/25		98	%	76 - 120
		Total Nickel (Ni)	2003/08/25		97	%	79 - 118
		Total Phosphorus Total (P)	2003/08/25		101	%	90 - 110
		Total Potassium (K)	2003/08/25		97	%	90 - 110
		Total Selenium (Se)	2003/08/25		96	%	74 - 126
		Total Silicon (Si)	2003/08/25		105	%	90 - 112
		Total Silver (Ag)	2003/08/25		99	%	90 - 109
		Total Sodium (Na)	2003/08/25		102	%	91 - 112
		Total Strontium (Sr)	2003/08/25		101	%	80 - 116
		Total Sulfur (S)	2003/08/25		102	%	90 - 111
		Total Thallium (Tl)	2003/08/25		94	%	68 - 129
		Total Tin (Sn)	2003/08/25		101	%	75 - 121
		Total Titanium (Ti)	2003/08/25		102	%	80 - 116
		Total Tungsten (W)	2003/08/25		97	%	84 - 121
		Total Vanadium (V)	2003/08/25		98	%	90 - 110
		Total Zinc (Zn)	2003/08/25		100	%	80 - 115
	METHOD BLANK	Total Aluminum (Al)	2003/08/25	ND		ug/g	
		Total Antimony (Sb)	2003/08/25	ND		ug/g	
		Total Arsenic (As)	2003/08/25	ND		ug/g	
		Total Barium (Ba)	2003/08/25	ND		ug/g	
		Total Beryllium (Be)	2003/08/25	ND		ug/g	
		Total Bismuth (Bi)	2003/08/25	ND		ug/g	
		Total Boron (B)	2003/08/25	ND		ug/g	
		Total Cadmium (Cd)	2003/08/25	ND		ug/g	
		Total Calcium (Ca)	2003/08/25	ND		ug/g	
		Total Chromium (Cr)	2003/08/25	ND		ug/g	
		Total Cobalt (Co)	2003/08/25	ND		ug/g	
		Total Copper (Cu)	2003/08/25	0.5		ug/g	
		Total Iron (Fe)	2003/08/25	0.8		ug/g	
		Total Lead (Pb)	2003/08/25	ND		ug/g	
		Total Lithium (Li)	2003/08/25	ND		ug/g	
		Total Magnesium (Mg)	2003/08/25	1.1		ug/g	
		Total Manganese (Mn)	2003/08/25	ND		ug/g	
		Total Molybdenum (Mo)	2003/08/25	ND		ug/g	
		Total Nickel (Ni)	2003/08/25	ND		ug/g	
		Total Phosphorus Total (P)	2003/08/25	ND		ug/g	
		Total Potassium (K)	2003/08/25	ND		ug/g	

Mississauga: 5540 McAdam Road L4Z 1P1 Telephone(905) 890-2555 FAX(905) 890-0370

Quality Assurance Report (Continued)

Maxxam Job Number: MA330703

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
508110 ISI	METHOD BLANK	Total Selenium (Se)	2003/08/25	ND		ug/g	
		Total Silicon (Si)	2003/08/25	ND		ug/g	
		Total Silver (Ag)	2003/08/25	ND		ug/g	
		Total Sodium (Na)	2003/08/25	ND		ug/g	
		Total Strontium (Sr)	2003/08/25	ND		ug/g	
		Total Sulfur (S)	2003/08/25	24.8		ug/g	
		Total Thallium (Tl)	2003/08/25	ND		ug/g	
		Total Tin (Sn)	2003/08/25	ND		ug/g	
		Total Titanium (Ti)	2003/08/25	ND		ug/g	
		Total Tungsten (W)	2003/08/25	ND		ug/g	
	RPD	Total Vanadium (V)	2003/08/25	ND		ug/g	
		Total Zinc (Zn)	2003/08/25	ND		ug/g	
		Total Aluminum (Al)	2003/08/25	1.5		%	20
		Total Antimony (Sb)	2003/08/25	NC		%	20
		Total Arsenic (As)	2003/08/25	NC		%	20
		Total Barium (Ba)	2003/08/25	3.7		%	20
		Total Beryllium (Be)	2003/08/25	NC		%	20
		Total Bismuth (Bi)	2003/08/25	NC		%	20
		Total Boron (B)	2003/08/25	0.6		%	20
		Total Cadmium (Cd)	2003/08/25	7.3		%	20
		Total Calcium (Ca)	2003/08/25	1.5		%	20
		Total Chromium (Cr)	2003/08/25	2.8		%	20
		Total Cobalt (Co)	2003/08/25	4.3		%	20
		Total Copper (Cu)	2003/08/25	7.5		%	20
		Total Iron (Fe)	2003/08/25	3.6		%	20
		Total Lead (Pb)	2003/08/25	11.6		%	20
		Total Lithium (Li)	2003/08/25	0		%	20
		Total Magnesium (Mg)	2003/08/25	0.2		%	20
		Total Manganese (Mn)	2003/08/25	1		%	20
		Total Molybdenum (Mo)	2003/08/25	NC		%	20
		Total Nickel (Ni)	2003/08/25	9.4		%	20
		Total Phosphorus Total (P)	2003/08/25	6.0		%	20
		Total Potassium (K)	2003/08/25	6.0		%	20
		Total Selenium (Se)	2003/08/25	NC		%	20
		Total Silicon (Si)	2003/08/25	5.9		%	20
		Total Silver (Ag)	2003/08/25	0.8		%	20
		Total Sodium (Na)	2003/08/25	0.8		%	20
		Total Strontium (Sr)	2003/08/25	2.3		%	20
		Total Sulfur (S)	2003/08/25	8.9		%	20
		Total Thallium (Tl)	2003/08/25	NC		%	20
		Total Tin (Sn)	2003/08/25	NC		%	20
		Total Titanium (Ti)	2003/08/25	8.9		%	20
		Total Tungsten (W)	2003/08/25	NC		%	20
		Total Vanadium (V)	2003/08/25	2.6		%	20
		Total Zinc (Zn)	2003/08/25	8.0		%	20

ND = Not detected
 NC = Non-calculable
 RPD = Relative Percent Difference

Mississauga: 5540 McAdam Road L4Z 1P1 Telephone(905) 890-2555 FAX(905) 890-0370

Maxxam Job #: A331607
Report Date: 2003/09/02

Gartner Lee Ltd
Client Project #: 23635
Site Reference: NANISIVIK, NU
Sampler Initials:

TOTAL PETROLEUM HYDROCARBONS (LIQUID)

Maxxam ID		A82291	A82292	A82293		
Sampling Date		2003/08/16 13:00	2003/08/16 13:00	2003/08/16 13:00		
	Units	TP02-95 AUG 16	TP02-97 AUG 16	TP02-100 AUG 16	DL	QA Batch

TPH COMPOUNDS						
Total Petroleum Hydrocarbons(Extractable)	ug/L	ND	ND	ND	70	508497
ND = Not detected Please check for attached comments						

Maxxam ID		A82294	A82295	A82296		
Sampling Date		2003/08/16 13:00	2003/08/16 13:00	2003/08/16 13:00		
	Units	TP02-101 AUG 16	TP02-102 AUG 16	TP02-DUP AUG 16	DL	QA Batch

TPH COMPOUNDS						
Total Petroleum Hydrocarbons(Extractable)	ug/L	ND	ND	ND	70	508497
ND = Not detected Please check for attached comments						

Maxxam Job #: A331607
Report Date: 2003/09/02

Gartner Lee Ltd
Client Project #: 23635
Site Reference: NANISIVIK, NU
Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (SOLID)

Maxxam ID		A82279		A82280	A82281	A82282	A82283		
Sampling Date		2003/08/12		2003/08/14	2003/08/14	2003/08/14	2003/08/14		
	Units	TP03-336-1 AUG 12	DL	TP03-346-1 AUG 14	TP03-347-1 AUG 14	TP03-348-1 AUG 14	TP03-351-1 AUG 14	DL	QA Batch

METALS									
Total Cadmium (Cd)	ug/g	124	3	0.7	10.6	4.5	1.0	0.3	509745
Total Lead (Pb)	ug/g	9690	25	56.6	428	234	59.6	2.5	509745
Total Zinc (Zn)	ug/g	40400	3	236	3460	1580	383	0.3	509745
Please check for attached comments									

Maxxam ID		A82284		A82285	A82286	A82287	A82288		
Sampling Date		2003/08/14		2003/08/15	2003/08/15	2003/08/15	2003/08/15		
	Units	TP03-352-1 AUG 14		TP03-357-1 AUG 15	TP03-358-1 AUG 15	TP03-359-1 AUG 15	TP03-360-1 AUG 15	DL	QA Batch

METALS									
Total Cadmium (Cd)	ug/g	2.1	14.8	ND	2.1	3.9	0.3	509745	
Total Lead (Pb)	ug/g	83.8	689	35.4	121	61.5	2.5	509745	
Total Zinc (Zn)	ug/g	679	5050	158	800	1480	0.3	509745	
ND = Not detected Please check for attached comments									

Maxxam Job #: A331607
Report Date: 2003/09/02

Gartner Lee Ltd
Client Project #: 23635
Site Reference: NANISIVIK, NU
Sampler Initials:

Results relate only to the items tested.

Gartner Lee Ltd
 Attention: Eric Denholm
 Client Project #: 23635
 P.O. #:
 Site Reference: NANISIVIK, NU

Quality Assurance Report

Maxxam Job Number: MA331607

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
508497 ANL	SPIKED BLANK	Total Petroleum Hydrocarbons(Extractable)	2003/08/26		102	%	70 - 130
	METHOD BLANK	Total Petroleum Hydrocarbons(Extractable)	2003/08/26	ND		ug/L	
	RPD	Total Petroleum Hydrocarbons(Extractable)	2003/08/26	NC		%	N/A
509745 ISI	QC STANDARD	Total Cadmium (Cd)	2003/08/28		98	%	75 - 117
		Total Lead (Pb)	2003/08/28		96	%	76 - 119
		Total Zinc (Zn)	2003/08/28		96	%	80 - 115
	METHOD BLANK	Total Cadmium (Cd)	2003/08/28	ND		ug/g	
		Total Lead (Pb)	2003/08/28	ND		ug/g	
		Total Zinc (Zn)	2003/08/28	0.5		ug/g	
	RPD	Total Cadmium (Cd)	2003/08/28	NC		%	20
		Total Lead (Pb)	2003/08/28	NC		%	20
		Total Zinc (Zn)	2003/08/28	18.7		%	20

ND = Not detected
 N/A = Not Applicable
 NC = Non-calculable
 RPD = Relative Percent Difference

Mississauga: 5540 McAdam Road L4Z 1P1 Telephone(905) 890-2555 FAX(905) 890-0370

Maxxam Job #: A331738
Report Date: 2003/09/08

Gartner Lee Ltd
Client Project #: 23635
Site Reference: NANISIVIK MINE
Sampler Initials:

RESULTS OF CHEMICAL ANALYSES OF LIQUID

Maxxam ID		A82888	A82895	A82895		A82897		
Sampling Date		2003/08/20	2003/08/20	2003/08/20		2003/08/19		
	Units	TP02-81	TP02-83	TP02-83 Dup	DL	BGC03-12	DL	QA Batch

CONVENTIONALS								
Acidity as CaCO3	mg/L	12	231	238	10		10	510681
Total Ammonia-N	mg/L	0.74	ND		0.05	27.9	0.5	509415
Total pH	pH	7.72	7.32		0.01	8.73	0.01	508937
Sulphide	mg/L	ND	ND		0.02	ND	0.02	509116
Dissolved Total Dissolved Solids (TDS)	mg/L					3140	1	509761
Total Alkalinity (Total as CaCO3)	mg/L	293	168		1		1	508936
Chloride (Cl)	mg/L	78.1	57.5		0.15	413	3.8	509225
Sulfates (SO4)	mg/L	1840	2740		13	1430	13	509225

ND = Not detected
Please check for attached comments

Maxxam ID		A82900		
Sampling Date		2003/08/19		
	Units	BGC03-14	DL	QA Batch

CONVENTIONALS				
Total Ammonia-N	mg/L	14.1	0.5	509415
Total pH	pH	10.1	0.01	508937
Sulphide	mg/L	ND	0.02	509116
Dissolved Total Dissolved Solids (TDS)	mg/L	4510	1	509761
Total Alkalinity (Total as CaCO3)	mg/L	87.9	1	508936
Chloride (Cl)	mg/L	1380	3.8	509225
Sulfates (SO4)	mg/L	575	13	509225

ND = Not detected
Please check for attached comments

Maxxam Job #: A331738
Report Date: 2003/09/08

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ELEMENTS BY ATOMIC SPECTROSCOPY (LIQUID)

Maxxam ID		A82888	A82895		A82897	A82900		
Sampling Date		2003/08/20	2003/08/20		2003/08/19	2003/08/19		
	Units	TP02-81	TP02-83	QA Batch	BGC03-12	BGC03-14	DL	QA Batch

METALS								
Dissolved Aluminum (Al)	mg/L	ND	ND	509929	ND	ND	0.04	509929
Total Aluminum (Al)	mg/L	1.82	1.14	510584	0.08	0.06	0.04	510584
Dissolved Antimony (Sb)	mg/L	0.5	0.7	509929	0.3	0.1	0.1	509929
Total Antimony (Sb)	mg/L	0.7	0.6	510584	0.4	0.1	0.1	510584
Dissolved Arsenic (As)	mg/L	ND	ND	509929	ND	ND	0.04	509929
Total Arsenic (As)	mg/L	ND	ND	549666	ND	ND	0.04	510584
Dissolved Barium (Ba)	mg/L	0.020	0.040	509929	0.026	0.050	0.001	509929
Total Barium (Ba)	mg/L	0.036	0.031	510584	0.017	0.019	0.001	510584
Dissolved Beryllium (Be)	mg/L	ND	ND	509929	ND	ND	0.001	509929
Total Beryllium (Be)	mg/L	ND	ND	510584	ND	ND	0.001	510584
Dissolved Bismuth (Bi)	mg/L	ND	ND	509929	ND	ND	0.023	509929
Total Bismuth (Bi)	mg/L	ND	ND	510584	ND	ND	0.023	510584
Dissolved Boron (B)	mg/L	0.150	0.161	509929	0.032	0.191	0.005	509929
Total Boron (B)	mg/L	0.149	0.175	510584	0.036	0.175	0.005	510584
Dissolved Cadmium (Cd)	mg/L	ND	0.009	509929	ND	ND	0.003	509929
Total Cadmium (Cd)	mg/L	0.008	0.016	510584	ND	ND	0.003	510584
Dissolved Calcium (Ca)	mg/L	454	514	509929	549	938	0.04	509929
Total Calcium (Ca)	mg/L	523	636	510584	612	1010	0.04	510584
Dissolved Chromium (Cr)	mg/L	ND	ND	509929	ND	ND	0.005	509929
Total Chromium (Cr)	mg/L	ND	ND	510584	ND	ND	0.005	510584
Dissolved Cobalt (Co)	mg/L	0.008	0.070	509929	ND	ND	0.005	509929
Total Cobalt (Co)	mg/L	0.022	0.089	510584	0.010	ND	0.005	510584
Dissolved Copper (Cu)	mg/L	ND	ND	509929	ND	ND	0.004	509929
Total Copper (Cu)	mg/L	0.006	ND	510584	0.038	0.014	0.004	510584
Dissolved Iron (Fe)	mg/L	ND	ND	509929	0.013	ND	0.006	509929
Total Iron (Fe)	mg/L	9.79	8.36	510584	30.4	2.06	0.006	510584
Dissolved Lead (Pb)	mg/L	ND	0.043	509929	ND	ND	0.025	509929
Total Lead (Pb)	mg/L	0.558	0.354	510584	0.741	0.517	0.025	510584
Dissolved Lithium (Li)	mg/L	0.05	0.05	509929	0.06	0.43	0.02	509929
Total Lithium (Li)	mg/L	0.06	0.04	510584	0.06	0.43	0.02	510584
Dissolved Magnesium (Mg)	mg/L	376	453	509929	155	5.53	0.003	509929
Total Magnesium (Mg)	mg/L	408	500	510584	130	14.9	0.003	510584

ND = Not detected
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