

Your Project #: FEBRUARY 9,2012
 Site Location: FARO MINE COMPLEX
 Your C.O.C. #: 08345221

Attention: KEVIN RAMSAY
 DENISON ENVIRONMENTAL SERVICES
 FARO CARE AND MAINTENANCE PROJ
 BOX 280
 FARO, YT
 CANADA Y0B 1K0

Report Date: 2012/02/17

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B211504
Received: 2012/02/10, 13:50

Sample Matrix: Surface
 # Samples Received: 3

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Water	3	2012/02/13	2012/02/13	BBY6SOP-00026, BBY0SOP-00002	SM2320B
Chloride by Automated Colourimetry	3	N/A	2012/02/14	BBY6SOP-00011	SM-4500-CI-
Carbon (DOC)	3	N/A	2012/02/15	BBY6SOP-00003	SM-5310C
Conductance - water	3	N/A	2012/02/13	BBY6SOP-00026	SM-2510B
Hardness Total (calculated as CaCO ₃)	3	N/A	2012/02/14		
Hardness (calculated as CaCO ₃)	3	N/A	2012/02/14	BBY7SOP-00002	Calculated Parameter
Ion Balance	3	N/A	2012/02/15	Calc	
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	3	N/A	2012/02/14	BBY7SOP-00002	EPA 6020A
Elements by ICPMS Low Level (dissolved)	3	N/A	2012/02/13	BBY7SOP-00002	EPA 6020A
Na, K, Ca, Mg, S by CRC ICPMS (total)	3	N/A	2012/02/14	BBY7SOP-00002	EPA 6020A
Elements by ICPMS Low Level (total)	3	N/A	2012/02/13	BBY7SOP-00002	EPA 6020A
Ammonia-N	3	N/A	2012/02/15	BBY6SOP-00009	SM-4500NH3G
Nitrate + Nitrite (N)	3	N/A	2012/02/13	BBY6SOP-00010	USEPA 353.2
Nitrite (N) by CFA	3	N/A	2012/02/13	BBY6SOP-00010	EPA 353.2
Nitrogen - Nitrate (as N)	3	N/A	2012/02/14	BBY6SOP-00010	Based on EPA 353.2
Filter and HNO ₃ Preserve for Metals	3	N/A	2012/02/10	BBY6WI-00001	EPA 200.2
pH Water	3	N/A	2012/02/13	BBY6SOP-00026	SM-4500H+B
Sulphate by Automated Colourimetry	3	N/A	2012/02/14	BBY6SOP-00017	SM4500-SO42
Total Dissolved Solids (Filt. Residue)	3	2012/02/15	2012/02/15	BBY6SOP-00033	SM 2540C
Carbon (Total Organic)	3	N/A	2012/02/15	BBY6SOP-00003	SM-5310C
Total Suspended Solids-LowLevel	3	2012/02/15	2012/02/15	BBY6SOP-00034	SM-2540 D

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

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CERTIFICATE OF ANALYSIS

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Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

TABITHA RUDKIN, Burnaby Project Manager
Email: TRudkin@maxxam.ca
Phone# (604) 638-2639

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Maxxam Job #: B211504
 Report Date: 2012/02/17

DENISON ENVIRONMENTAL SERVICES
 Client Project #: FEBRUARY 9,2012
 Site Location: FARO MINE COMPLEX
 Sampler Initials: NG

RESULTS OF CHEMICAL ANALYSES OF SURFACE

Maxxam ID		CR9018	CR9019	CR9020		
Sampling Date		2012/02/09 13:30	2012/02/09 13:55	2012/02/09 10:42		
COC Number		08345221	08345221	08345221		
	Units	NFRC SC-2	NFRC SC-3	NFRC SC-4	RDL	QC Batch

ANIONS						
Nitrite (N)	mg/L	<0.005 (1)	<0.005 (1)	<0.005 (1)	0.005	5591975
Calculated Parameters						
Filter and HNO3 Preservation	N/A	FIELD	FIELD	FIELD	N/A	ONSITE
Ion Balance	N/A	NC	1.0	1.0	0.010	5584867
Nitrate (N)	mg/L	0.261	0.260	0.262	0.020	5587794
Misc. Inorganics						
Dissolved Organic Carbon (C)	mg/L	1.48	1.62	0.51	0.50	5599259
Alkalinity (Total as CaCO3)	mg/L	126	126	128	0.50	5591787
Total Organic Carbon (C)	mg/L	1.79	1.74	1.22	0.50	5599329
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	<0.50	0.50	5591787
Bicarbonate (HCO3)	mg/L	154	154	156	0.50	5591787
Carbonate (CO3)	mg/L	<0.50	<0.50	<0.50	0.50	5591787
Hydroxide (OH)	mg/L	<0.50	<0.50	<0.50	0.50	5591787
Anions						
Dissolved Sulphate (SO4)	mg/L	20.1	20.4	21.7	0.50	5598464
Dissolved Chloride (Cl)	mg/L	1.5	<0.5	<0.5	0.5	5598440
Nutrients						
Ammonia (N)	mg/L	0.074	0.080	0.029	0.0050	5598648
Nitrate plus Nitrite (N)	mg/L	0.261 (1)	0.260 (1)	0.262 (1)	0.020	5591974
Physical Properties						
Conductivity	uS/cm	287	289	291	1.0	5591856
pH	pH Units	7.77	7.75	7.79		5591860
Physical Properties						
Total Suspended Solids	mg/L	<1.0	<1.0	<1.0	1.0	5595542
Total Dissolved Solids	mg/L	146	158	148	10	5598635

RDL = Reportable Detection Limit
 (1) Sample analysed past recommended hold time

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 DENISON ENVIRONMENTAL SERVICES
 Client Project #: FEBRUARY 9,2012
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LOW LEVEL DISSOLVED METALS IN WATER (SURFACE)

Maxxam ID		CR9018		CR9019		CR9020		
Sampling Date		2012/02/09 13:30		2012/02/09 13:55		2012/02/09 10:42		
COC Number		08345221		08345221		08345221		
	Units	NFRC SC-2	QC Batch	NFRC SC-3	QC Batch	NFRC SC-4	RDL	QC Batch

Misc. Inorganics								
Dissolved Hardness (CaCO3)	mg/L	147	5584135	143	5584135	147	0.5	5584135
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	3.6	5590697	5.6	5590697	4.0	0.2	5590697
Dissolved Antimony (Sb)	ug/L	0.07	5590697	0.07	5590697	0.06	0.02	5590697
Dissolved Arsenic (As)	ug/L	0.43	5590697	0.35	5590697	0.33	0.02	5590697
Dissolved Barium (Ba)	ug/L	72.9	5590697	72.8	5590697	72.0	0.02	5590697
Dissolved Beryllium (Be)	ug/L	<0.01	5590697	0.01	5590697	<0.01	0.01	5590697
Dissolved Bismuth (Bi)	ug/L	<0.005	5590697	<0.005	5607559	<0.005	0.005	5590697
Dissolved Boron (B)	ug/L	<50	5590697	<50	5590697	<50	50	5590697
Dissolved Cadmium (Cd)	ug/L	0.037 (1)	5607559	0.078 (1)	5590697	0.030	0.005	5590697
Dissolved Chromium (Cr)	ug/L	<0.1	5590697	<0.1	5590697	<0.1	0.1	5590697
Dissolved Cobalt (Co)	ug/L	0.152	5607559	0.111	5590697	0.156	0.005	5590697
Dissolved Copper (Cu)	ug/L	1.16 (1)	5607559	0.65 (1)	5590697	0.51	0.05	5590697
Dissolved Iron (Fe)	ug/L	104	5590697	87	5590697	81	1	5590697
Dissolved Lead (Pb)	ug/L	0.257	5607559	0.616 (1)	5607559	0.288	0.005	5590697
Dissolved Lithium (Li)	ug/L	7.5	5590697	7.5	5590697	7.5	0.5	5590697
Dissolved Manganese (Mn)	ug/L	51.0 (1)	5590697	36.4	5590697	50.9	0.05	5590697
Dissolved Molybdenum (Mo)	ug/L	0.77	5590697	0.78	5590697	0.79	0.05	5590697
Dissolved Nickel (Ni)	ug/L	0.70	5590697	0.62	5590697	0.60	0.02	5590697
Dissolved Selenium (Se)	ug/L	0.44	5590697	0.42	5590697	0.44	0.04	5590697
Dissolved Silicon (Si)	ug/L	6010	5590697	5920	5590697	6090	100	5590697
Dissolved Silver (Ag)	ug/L	0.006	5590697	<0.005	5590697	<0.005	0.005	5590697
Dissolved Strontium (Sr)	ug/L	186	5590697	184	5590697	183	0.05	5590697
Dissolved Thallium (Tl)	ug/L	0.003	5590697	0.003	5590697	0.003	0.002	5590697
Dissolved Tin (Sn)	ug/L	<0.2	5590697	<0.2	5590697	<0.2	0.2	5590697
Dissolved Titanium (Ti)	ug/L	<0.5	5590697	<0.5	5590697	<0.5	0.5	5590697
Dissolved Uranium (U)	ug/L	2.30	5590697	2.28	5590697	2.27	0.002	5590697
Dissolved Vanadium (V)	ug/L	<0.2	5590697	<0.2	5590697	<0.2	0.2	5590697
Dissolved Zinc (Zn)	ug/L	22.0 (1)	5607559	27.3 (1)	5590697	28.1 (1)	0.1	5607559
Dissolved Zirconium (Zr)	ug/L	<0.1	5590697	<0.1	5590697	<0.1	0.1	5590697
Dissolved Calcium (Ca)	mg/L	43.5	5585407	42.1	5585407	43.4	0.05	5585407
Dissolved Magnesium (Mg)	mg/L	9.42	5585407	9.07	5585407	9.35	0.05	5585407

RDL = Reportable Detection Limit
 (1) Dissolved greater than total. Reanalysis yields similar results

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LOW LEVEL DISSOLVED METALS IN WATER (SURFACE)

Maxxam ID		CR9018		CR9019		CR9020		
Sampling Date		2012/02/09 13:30		2012/02/09 13:55		2012/02/09 10:42		
COC Number		08345221		08345221		08345221		
	Units	NFRC SC-2	QC Batch	NFRC SC-3	QC Batch	NFRC SC-4	RDL	QC Batch

Dissolved Potassium (K)	mg/L	2.03 (1)	5585407	1.04	5585407	1.09	0.05	5585407
Dissolved Sodium (Na)	mg/L	3.48	5585407	3.18	5585407	3.33	0.05	5585407
Dissolved Sulphur (S)	mg/L	<10	5585407	<10	5585407	<10	10	5585407

RDL = Reportable Detection Limit
 (1) Dissolved greater than total. Reanalysis yields similar results

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 DENISON ENVIRONMENTAL SERVICES
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LOW LEVEL TOTAL METALS IN WATER (SURFACE)

Maxxam ID		CR9018	CR9019	CR9020		
Sampling Date		2012/02/09 13:30	2012/02/09 13:55	2012/02/09 10:42		
COC Number		08345221	08345221	08345221		
	Units	NFRC SC-2	NFRC SC-3	NFRC SC-4	RDL	QC Batch

Calculated Parameters						
Total Hardness (CaCO3)	mg/L	139	136	146	0.50	5584322
Total Metals by ICPMS						
Total Aluminum (Al)	ug/L	7.4	7.1	7.6	0.2	5590976
Total Antimony (Sb)	ug/L	0.06	0.06	0.06	0.02	5590976
Total Arsenic (As)	ug/L	0.47	0.49	0.51	0.02	5590976
Total Barium (Ba)	ug/L	75.7	75.3	75.7	0.02	5590976
Total Beryllium (Be)	ug/L	<0.01	<0.01	<0.01	0.01	5590976
Total Bismuth (Bi)	ug/L	<0.005	0.009	<0.005	0.005	5590976
Total Boron (B)	ug/L	<50	<50	<50	50	5590976
Total Cadmium (Cd)	ug/L	0.024	0.026	0.031	0.005	5590976
Total Chromium (Cr)	ug/L	<0.1	<0.1	<0.1	0.1	5590976
Total Cobalt (Co)	ug/L	0.127	0.120	0.170	0.005	5590976
Total Copper (Cu)	ug/L	0.34	0.33	0.58	0.05	5590976
Total Iron (Fe)	ug/L	185	175	196	1	5590976
Total Lead (Pb)	ug/L	0.312	0.301	0.505	0.005	5590976
Total Lithium (Li)	ug/L	7.5	7.4	7.7	0.5	5590976
Total Manganese (Mn)	ug/L	39.2	39.4	52.4	0.05	5590976
Total Molybdenum (Mo)	ug/L	0.77	0.76	0.79	0.05	5590976
Total Nickel (Ni)	ug/L	0.64	0.52	0.65	0.02	5590976
Total Selenium (Se)	ug/L	0.44	0.42	0.45	0.04	5590976
Total Silicon (Si)	ug/L	5680	5630	6020	100	5590976
Total Silver (Ag)	ug/L	<0.005	<0.005	<0.005	0.005	5590976
Total Strontium (Sr)	ug/L	184	183	186	0.05	5590976
Total Thallium (Tl)	ug/L	0.002	0.003	<0.002	0.002	5590976
Total Tin (Sn)	ug/L	<0.2	<0.2	<0.2	0.2	5590976
Total Titanium (Ti)	ug/L	<0.5	<0.5	<0.5	0.5	5590976
Total Uranium (U)	ug/L	2.26	2.31	2.31	0.002	5590976
Total Vanadium (V)	ug/L	<0.2	<0.2	<0.2	0.2	5590976
Total Zinc (Zn)	ug/L	16.9	18.5	22.8	0.1	5590976
Total Zirconium (Zr)	ug/L	<0.1	<0.1	<0.1	0.1	5590976
Total Calcium (Ca)	mg/L	41.6	39.8	43.5	0.05	5585123
Total Magnesium (Mg)	mg/L	8.48	8.80	9.12	0.05	5585123

RDL = Reportable Detection Limit

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LOW LEVEL TOTAL METALS IN WATER (SURFACE)

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Sampling Date		2012/02/09 13:30	2012/02/09 13:55	2012/02/09 10:42		
COC Number		08345221	08345221	08345221		
	Units	NFRC SC-2	NFRC SC-3	NFRC SC-4	RDL	QC Batch

Total Potassium (K)	mg/L	1.06	1.08	1.13	0.05	5585123
Total Sodium (Na)	mg/L	2.99	3.05	3.21	0.05	5585123
Total Sulphur (S)	mg/L	<10	<10	<10	10	5585123

RDL = Reportable Detection Limit

Maxxam Job #: B211504
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DENISON ENVIRONMENTAL SERVICES
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General Comments

Sample CR9018-01: Ion Balance: NC = Not Calculable due to low ion sum [< 3 meq/L].

Sample CR9018, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample CR9019, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample CR9020, Elements by ICPMS Low Level (dissolved): Test repeated.

Results relate only to the items tested.

DENISON ENVIRONMENTAL SERVICES
 Attention: KEVIN RAMSAY
 Client Project #: FEBRUARY 9,2012
 P.O. #:
 Site Location: FARO MINE COMPLEX

Quality Assurance Report
 Maxxam Job Number: VB211504

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
5590697 AA1	Matrix Spike	Dissolved Aluminum (Al)	2012/02/13		99	%	80 - 120	
		Dissolved Antimony (Sb)	2012/02/13		115	%	80 - 120	
		Dissolved Arsenic (As)	2012/02/13		NC	%	80 - 120	
		Dissolved Barium (Ba)	2012/02/13		NC	%	80 - 120	
		Dissolved Beryllium (Be)	2012/02/13		103	%	80 - 120	
		Dissolved Bismuth (Bi)	2012/02/13		105	%	80 - 120	
		Dissolved Cadmium (Cd)	2012/02/13		107	%	80 - 120	
		Dissolved Chromium (Cr)	2012/02/13		94	%	80 - 120	
		Dissolved Cobalt (Co)	2012/02/13		94	%	80 - 120	
		Dissolved Copper (Cu)	2012/02/13		89	%	80 - 120	
		Dissolved Iron (Fe)	2012/02/13		107	%	80 - 120	
		Dissolved Lead (Pb)	2012/02/13		101	%	80 - 120	
		Dissolved Lithium (Li)	2012/02/13		97	%	80 - 120	
		Dissolved Manganese (Mn)	2012/02/13		NC	%	80 - 120	
		Dissolved Molybdenum (Mo)	2012/02/13		116	%	80 - 120	
		Dissolved Nickel (Ni)	2012/02/13		91	%	80 - 120	
		Dissolved Selenium (Se)	2012/02/13		111	%	80 - 120	
		Dissolved Silver (Ag)	2012/02/13		120	%	80 - 120	
		Dissolved Strontium (Sr)	2012/02/13		NC	%	80 - 120	
		Dissolved Thallium (Tl)	2012/02/13		101	%	80 - 120	
		Dissolved Tin (Sn)	2012/02/13		NC	%	80 - 120	
		Dissolved Titanium (Ti)	2012/02/13		105	%	80 - 120	
		Dissolved Uranium (U)	2012/02/13		98	%	80 - 120	
		Dissolved Vanadium (V)	2012/02/13		95	%	80 - 120	
		Dissolved Zinc (Zn)	2012/02/13		99	%	80 - 120	
		Spiked Blank	Dissolved Aluminum (Al)	2012/02/13		103	%	80 - 120
			Dissolved Antimony (Sb)	2012/02/13		107	%	80 - 120
			Dissolved Arsenic (As)	2012/02/13		100	%	80 - 120
			Dissolved Barium (Ba)	2012/02/13		103	%	80 - 120
			Dissolved Beryllium (Be)	2012/02/13		98	%	80 - 120
			Dissolved Bismuth (Bi)	2012/02/13		100	%	80 - 120
			Dissolved Cadmium (Cd)	2012/02/13		100	%	80 - 120
Dissolved Chromium (Cr)	2012/02/13			98	%	80 - 120		
Dissolved Cobalt (Co)	2012/02/13			99	%	80 - 120		
Dissolved Copper (Cu)	2012/02/13			96	%	80 - 120		
Dissolved Iron (Fe)	2012/02/13			100	%	80 - 120		
Dissolved Lead (Pb)	2012/02/13			101	%	80 - 120		
Dissolved Lithium (Li)	2012/02/13			100	%	80 - 120		
Dissolved Manganese (Mn)	2012/02/13			99	%	80 - 120		
Dissolved Molybdenum (Mo)	2012/02/13			99	%	80 - 120		
Dissolved Nickel (Ni)	2012/02/13			99	%	80 - 120		
Dissolved Selenium (Se)	2012/02/13			99	%	80 - 120		
Dissolved Silver (Ag)	2012/02/13			111	%	80 - 120		
Dissolved Strontium (Sr)	2012/02/13			103	%	80 - 120		
Dissolved Thallium (Tl)	2012/02/13			99	%	80 - 120		
Dissolved Tin (Sn)	2012/02/13			102	%	80 - 120		
Dissolved Titanium (Ti)	2012/02/13			104	%	80 - 120		
Dissolved Uranium (U)	2012/02/13			96	%	80 - 120		
Dissolved Vanadium (V)	2012/02/13			97	%	80 - 120		
Dissolved Zinc (Zn)	2012/02/13			100	%	80 - 120		
Method Blank	Dissolved Aluminum (Al)		2012/02/13		0.3, RDL=0.2		ug/L	
	Dissolved Antimony (Sb)		2012/02/13		<0.02		ug/L	
	Dissolved Arsenic (As)		2012/02/13		<0.02		ug/L	
	Dissolved Barium (Ba)		2012/02/13		<0.02		ug/L	
	Dissolved Beryllium (Be)		2012/02/13		<0.01		ug/L	

DENISON ENVIRONMENTAL SERVICES
 Attention: KEVIN RAMSAY
 Client Project #: FEBRUARY 9,2012
 P.O. #:
 Site Location: FARO MINE COMPLEX

Quality Assurance Report (Continued)

Maxxam Job Number: VB211504

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5590697 AA1	Method Blank	Dissolved Bismuth (Bi)	2012/02/13	<0.005		ug/L	
		Dissolved Boron (B)	2012/02/13	<50		ug/L	
		Dissolved Cadmium (Cd)	2012/02/13	<0.005		ug/L	
		Dissolved Chromium (Cr)	2012/02/13	<0.1		ug/L	
		Dissolved Cobalt (Co)	2012/02/13	<0.005		ug/L	
		Dissolved Copper (Cu)	2012/02/13	<0.05		ug/L	
		Dissolved Iron (Fe)	2012/02/13	<1		ug/L	
		Dissolved Lead (Pb)	2012/02/13	<0.005		ug/L	
		Dissolved Lithium (Li)	2012/02/13	<0.5		ug/L	
		Dissolved Manganese (Mn)	2012/02/13	<0.05		ug/L	
		Dissolved Molybdenum (Mo)	2012/02/13	<0.05		ug/L	
		Dissolved Nickel (Ni)	2012/02/13	<0.02		ug/L	
		Dissolved Selenium (Se)	2012/02/13	<0.04		ug/L	
		Dissolved Silicon (Si)	2012/02/13	<100		ug/L	
		Dissolved Silver (Ag)	2012/02/13	<0.005		ug/L	
		Dissolved Strontium (Sr)	2012/02/13	<0.05		ug/L	
		Dissolved Thallium (Tl)	2012/02/13	<0.002		ug/L	
		Dissolved Tin (Sn)	2012/02/13	<0.2		ug/L	
		Dissolved Titanium (Ti)	2012/02/13	<0.5		ug/L	
		Dissolved Uranium (U)	2012/02/13	<0.002		ug/L	
	Dissolved Vanadium (V)	2012/02/13	<0.2		ug/L		
	Dissolved Zinc (Zn)	2012/02/13	<0.1		ug/L		
	Dissolved Zirconium (Zr)	2012/02/13	<0.1		ug/L		
	RPD	Dissolved Aluminum (Al)	2012/02/13	16.0	%		20
		Dissolved Antimony (Sb)	2012/02/13	NC	%		20
		Dissolved Arsenic (As)	2012/02/13	0.02	%		20
		Dissolved Barium (Ba)	2012/02/13	2.7	%		20
		Dissolved Beryllium (Be)	2012/02/13	NC	%		20
		Dissolved Bismuth (Bi)	2012/02/13	NC	%		20
		Dissolved Boron (B)	2012/02/13	NC	%		20
		Dissolved Cadmium (Cd)	2012/02/13	NC	%		20
		Dissolved Chromium (Cr)	2012/02/13	4.1	%		20
		Dissolved Cobalt (Co)	2012/02/13	8.6	%		20
		Dissolved Copper (Cu)	2012/02/13	3.0	%		20
		Dissolved Iron (Fe)	2012/02/13	NC	%		20
		Dissolved Lead (Pb)	2012/02/13	NC	%		20
	Dissolved Lithium (Li)	2012/02/13	NC	%		20	
	Dissolved Manganese (Mn)	2012/02/13	0.05	%		20	
	Dissolved Molybdenum (Mo)	2012/02/13	10.9	%		20	
	Dissolved Nickel (Ni)	2012/02/13	1.9	%		20	
	Dissolved Selenium (Se)	2012/02/13	NC	%		20	
	Dissolved Silicon (Si)	2012/02/13	0.5	%		20	
	Dissolved Silver (Ag)	2012/02/13	NC	%		20	
Dissolved Strontium (Sr)	2012/02/13	1.1	%		20		
Dissolved Thallium (Tl)	2012/02/13	4.2	%		20		
Dissolved Tin (Sn)	2012/02/13	0.7	%		20		
Dissolved Titanium (Ti)	2012/02/13	NC	%		20		
Dissolved Uranium (U)	2012/02/13	5.4	%		20		
Dissolved Vanadium (V)	2012/02/13	NC	%		20		
Dissolved Zinc (Zn)	2012/02/13	5.3	%		20		
Dissolved Zirconium (Zr)	2012/02/13	NC	%		20		
5590976 AA1	Matrix Spike [CR9020-03]	Total Aluminum (Al)	2012/02/13		104	%	80 - 120
		Total Antimony (Sb)	2012/02/13		117	%	80 - 120
		Total Arsenic (As)	2012/02/13		104	%	80 - 120

DENISON ENVIRONMENTAL SERVICES
 Attention: KEVIN RAMSAY
 Client Project #: FEBRUARY 9,2012
 P.O. #:
 Site Location: FARO MINE COMPLEX

Quality Assurance Report (Continued)

Maxxam Job Number: VB211504

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5590976 AA1	Matrix Spike [CR9020-03]	Total Barium (Ba)	2012/02/13		NC	%	80 - 120
		Total Beryllium (Be)	2012/02/13		105	%	80 - 120
		Total Bismuth (Bi)	2012/02/13		105	%	80 - 120
		Total Cadmium (Cd)	2012/02/13		104	%	80 - 120
		Total Chromium (Cr)	2012/02/13		97	%	80 - 120
		Total Cobalt (Co)	2012/02/13		97	%	80 - 120
		Total Copper (Cu)	2012/02/13		93	%	80 - 120
		Total Iron (Fe)	2012/02/13		NC	%	80 - 120
		Total Lead (Pb)	2012/02/13		101	%	80 - 120
		Total Lithium (Li)	2012/02/13		NC	%	80 - 120
		Total Manganese (Mn)	2012/02/13		NC	%	80 - 120
		Total Molybdenum (Mo)	2012/02/13		NC	%	80 - 120
		Total Nickel (Ni)	2012/02/13		96	%	80 - 120
		Total Selenium (Se)	2012/02/13		107	%	80 - 120
		Total Silver (Ag)	2012/02/13		116	%	80 - 120
		Total Strontium (Sr)	2012/02/13		NC	%	80 - 120
		Total Thallium (Tl)	2012/02/13		105	%	80 - 120
		Total Tin (Sn)	2012/02/13		114	%	80 - 120
		Total Titanium (Ti)	2012/02/13		102	%	80 - 120
		Total Uranium (U)	2012/02/13		100	%	80 - 120
		Total Vanadium (V)	2012/02/13		100	%	80 - 120
		Total Zinc (Zn)	2012/02/13		NC	%	80 - 120
	Spiked Blank	Total Aluminum (Al)	2012/02/13		105	%	80 - 120
		Total Antimony (Sb)	2012/02/13		108	%	80 - 120
		Total Arsenic (As)	2012/02/13		98	%	80 - 120
		Total Barium (Ba)	2012/02/13		109	%	80 - 120
		Total Beryllium (Be)	2012/02/13		101	%	80 - 120
		Total Bismuth (Bi)	2012/02/13		104	%	80 - 120
		Total Cadmium (Cd)	2012/02/13		98	%	80 - 120
		Total Chromium (Cr)	2012/02/13		95	%	80 - 120
		Total Cobalt (Co)	2012/02/13		96	%	80 - 120
		Total Copper (Cu)	2012/02/13		95	%	80 - 120
		Total Iron (Fe)	2012/02/13		107	%	80 - 120
		Total Lead (Pb)	2012/02/13		104	%	80 - 120
		Total Lithium (Li)	2012/02/13		100	%	80 - 120
		Total Manganese (Mn)	2012/02/13		97	%	80 - 120
		Total Molybdenum (Mo)	2012/02/13		105	%	80 - 120
		Total Nickel (Ni)	2012/02/13		99	%	80 - 120
		Total Selenium (Se)	2012/02/13		100	%	80 - 120
		Total Silver (Ag)	2012/02/13		110	%	80 - 120
		Total Strontium (Sr)	2012/02/13		107	%	80 - 120
		Total Thallium (Tl)	2012/02/13		104	%	80 - 120
		Total Tin (Sn)	2012/02/13		104	%	80 - 120
		Total Titanium (Ti)	2012/02/13		101	%	80 - 120
		Total Uranium (U)	2012/02/13		100	%	80 - 120
		Total Vanadium (V)	2012/02/13		94	%	80 - 120
		Total Zinc (Zn)	2012/02/13		96	%	80 - 120
	Method Blank	Total Aluminum (Al)	2012/02/13	<0.2		ug/L	
		Total Antimony (Sb)	2012/02/13	<0.02		ug/L	
		Total Arsenic (As)	2012/02/13	<0.02		ug/L	
		Total Barium (Ba)	2012/02/13	<0.02		ug/L	
		Total Beryllium (Be)	2012/02/13	<0.01		ug/L	
		Total Bismuth (Bi)	2012/02/13	<0.005		ug/L	
		Total Boron (B)	2012/02/13	<50		ug/L	

DENISON ENVIRONMENTAL SERVICES
 Attention: KEVIN RAMSAY
 Client Project #: FEBRUARY 9,2012
 P.O. #:
 Site Location: FARO MINE COMPLEX

Quality Assurance Report (Continued)

Maxxam Job Number: VB211504

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5590976 AA1	Method Blank	Total Cadmium (Cd)	2012/02/13	<0.005		ug/L	
		Total Chromium (Cr)	2012/02/13	<0.1		ug/L	
		Total Cobalt (Co)	2012/02/13	<0.005		ug/L	
		Total Copper (Cu)	2012/02/13	<0.05		ug/L	
		Total Iron (Fe)	2012/02/13	<1		ug/L	
		Total Lead (Pb)	2012/02/13	<0.005		ug/L	
		Total Lithium (Li)	2012/02/13	<0.5		ug/L	
		Total Manganese (Mn)	2012/02/13	<0.05		ug/L	
		Total Molybdenum (Mo)	2012/02/13	<0.05		ug/L	
		Total Nickel (Ni)	2012/02/13	<0.02		ug/L	
		Total Selenium (Se)	2012/02/13	<0.04		ug/L	
		Total Silicon (Si)	2012/02/13	<100		ug/L	
		Total Silver (Ag)	2012/02/13	<0.005		ug/L	
		Total Strontium (Sr)	2012/02/13	<0.05		ug/L	
		Total Thallium (Tl)	2012/02/13	<0.002		ug/L	
		Total Tin (Sn)	2012/02/13	<0.2		ug/L	
		Total Titanium (Ti)	2012/02/13	<0.5		ug/L	
		Total Uranium (U)	2012/02/13	<0.002		ug/L	
		Total Vanadium (V)	2012/02/13	<0.2		ug/L	
		Total Zinc (Zn)	2012/02/13	<0.1		ug/L	
		Total Zirconium (Zr)	2012/02/13	<0.1		ug/L	
	RPD [CR9020-03]	Total Aluminum (Al)	2012/02/13	5.9		%	20
		Total Antimony (Sb)	2012/02/13	NC		%	20
		Total Arsenic (As)	2012/02/13	0.8		%	20
		Total Barium (Ba)	2012/02/13	0.3		%	20
		Total Beryllium (Be)	2012/02/13	NC		%	20
		Total Bismuth (Bi)	2012/02/13	NC		%	20
		Total Boron (B)	2012/02/13	NC		%	20
		Total Cadmium (Cd)	2012/02/13	7.2		%	20
		Total Chromium (Cr)	2012/02/13	NC		%	20
		Total Cobalt (Co)	2012/02/13	3.8		%	20
		Total Copper (Cu)	2012/02/13	1.9		%	20
		Total Iron (Fe)	2012/02/13	1.5		%	20
		Total Lead (Pb)	2012/02/13	1.6		%	20
		Total Lithium (Li)	2012/02/13	2.3		%	20
		Total Manganese (Mn)	2012/02/13	1.1		%	20
		Total Molybdenum (Mo)	2012/02/13	0.6		%	20
		Total Nickel (Ni)	2012/02/13	3.9		%	20
		Total Selenium (Se)	2012/02/13	3.0		%	20
		Total Silicon (Si)	2012/02/13	1.3		%	20
		Total Silver (Ag)	2012/02/13	NC		%	20
		Total Strontium (Sr)	2012/02/13	0.9		%	20
		Total Thallium (Tl)	2012/02/13	NC		%	20
		Total Tin (Sn)	2012/02/13	NC		%	20
		Total Titanium (Ti)	2012/02/13	NC		%	20
		Total Uranium (U)	2012/02/13	2.6		%	20
		Total Vanadium (V)	2012/02/13	NC		%	20
		Total Zinc (Zn)	2012/02/13	0.09		%	20
		Total Zirconium (Zr)	2012/02/13	NC		%	20
5591787 WAY	Matrix Spike	Alkalinity (Total as CaCO3)	2012/02/13		NC	%	80 - 120
	Spiked Blank	Alkalinity (Total as CaCO3)	2012/02/13		98	%	80 - 120
	Method Blank	Alkalinity (Total as CaCO3)	2012/02/13	<0.50		mg/L	
		Alkalinity (PP as CaCO3)	2012/02/13	<0.50		mg/L	
		Bicarbonate (HCO3)	2012/02/13	<0.50		mg/L	
		Carbonate (CO3)	2012/02/13	<0.50		mg/L	

DENISON ENVIRONMENTAL SERVICES
 Attention: KEVIN RAMSAY
 Client Project #: FEBRUARY 9,2012
 P.O. #:
 Site Location: FARO MINE COMPLEX

Quality Assurance Report (Continued)

Maxxam Job Number: VB211504

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5591787 WAY	Method Blank	Hydroxide (OH)	2012/02/13	<0.50		mg/L	
	RPD	Alkalinity (Total as CaCO3)	2012/02/13	1.7		%	20
		Alkalinity (PP as CaCO3)	2012/02/13	NC		%	20
		Bicarbonate (HCO3)	2012/02/13	1.7		%	20
		Carbonate (CO3)	2012/02/13	NC		%	20
		Hydroxide (OH)	2012/02/13	NC		%	20
5591856 WAY	Spiked Blank	Conductivity	2012/02/13		100	%	80 - 120
	Method Blank	Conductivity	2012/02/13	<1.0		uS/cm	
	RPD	Conductivity	2012/02/13	0.4		%	20
5591974 TL2	Matrix Spike	Nitrate plus Nitrite (N)	2012/02/13		103	%	80 - 120
	Spiked Blank	Nitrate plus Nitrite (N)	2012/02/13		106	%	80 - 120
	Method Blank	Nitrate plus Nitrite (N)	2012/02/13	<0.020		mg/L	
	RPD	Nitrate plus Nitrite (N)	2012/02/13	NC (1)		%	25
5591975 TL2	Matrix Spike	Nitrite (N)	2012/02/13		90	%	80 - 120
	Spiked Blank	Nitrite (N)	2012/02/13		101	%	80 - 120
	Method Blank	Nitrite (N)	2012/02/13	<0.005		mg/L	
	RPD	Nitrite (N)	2012/02/13	NC (1)		%	20
5595542 TM8	Spiked Blank	Total Suspended Solids	2012/02/15		100	%	80 - 120
	Method Blank	Total Suspended Solids	2012/02/15	<1.0		mg/L	
5598440 BB3	Matrix Spike	Dissolved Chloride (Cl)	2012/02/14		91	%	80 - 120
	Spiked Blank	Dissolved Chloride (Cl)	2012/02/14		100	%	80 - 120
	Method Blank	Dissolved Chloride (Cl)	2012/02/14	<0.5		mg/L	
	RPD	Dissolved Chloride (Cl)	2012/02/14	1.7		%	20
5598464 BB3	Matrix Spike	Dissolved Sulphate (SO4)	2012/02/14		94	%	80 - 120
	Spiked Blank	Dissolved Sulphate (SO4)	2012/02/14		94	%	80 - 120
	Method Blank	Dissolved Sulphate (SO4)	2012/02/14	0.71, RDL=0.50		mg/L	
	RPD	Dissolved Sulphate (SO4)	2012/02/14	1.2		%	20
5598635 TM8	Matrix Spike	Total Dissolved Solids	2012/02/15		NC	%	80 - 120
	Spiked Blank	Total Dissolved Solids	2012/02/15		96	%	80 - 120
	Method Blank	Total Dissolved Solids	2012/02/15	<10		mg/L	
	RPD	Total Dissolved Solids	2012/02/15	0.7		%	20
5598648 CK	Matrix Spike	Ammonia (N)	2012/02/15		NC	%	80 - 120
	Spiked Blank	Ammonia (N)	2012/02/15		103	%	80 - 120
	Method Blank	Ammonia (N)	2012/02/15	<0.0050		mg/L	
	RPD	Ammonia (N)	2012/02/15	NC		%	20
5599259 IC4	Matrix Spike	Dissolved Organic Carbon (C)	2012/02/15		109	%	80 - 120
	Spiked Blank	Dissolved Organic Carbon (C)	2012/02/15		107	%	80 - 120
	Method Blank	Dissolved Organic Carbon (C)	2012/02/15	<0.50		mg/L	
	RPD	Dissolved Organic Carbon (C)	2012/02/15	3.6		%	20
5599329 IC4	Matrix Spike	Total Organic Carbon (C)	2012/02/15		108	%	80 - 120
	Spiked Blank	Total Organic Carbon (C)	2012/02/15		108	%	80 - 120
	Method Blank	Total Organic Carbon (C)	2012/02/15	<0.50		mg/L	
	RPD	Total Organic Carbon (C)	2012/02/15	NC		%	20
5607559 AA1	Spiked Blank	Dissolved Bismuth (Bi)	2012/02/17		106	%	80 - 120
		Dissolved Cadmium (Cd)	2012/02/17		102	%	80 - 120
		Dissolved Cobalt (Co)	2012/02/17		96	%	80 - 120
		Dissolved Copper (Cu)	2012/02/17		95	%	80 - 120
		Dissolved Lead (Pb)	2012/02/17		105	%	80 - 120
		Dissolved Zinc (Zn)	2012/02/17		105	%	80 - 120
	Method Blank	Dissolved Bismuth (Bi)	2012/02/17	<0.005		ug/L	
		Dissolved Cadmium (Cd)	2012/02/17	<0.005		ug/L	
		Dissolved Cobalt (Co)	2012/02/17	<0.005		ug/L	
		Dissolved Copper (Cu)	2012/02/17	<0.05		ug/L	
		Dissolved Lead (Pb)	2012/02/17	<0.005		ug/L	
		Dissolved Zinc (Zn)	2012/02/17	<0.1		ug/L	

DENISON ENVIRONMENTAL SERVICES
Attention: KEVIN RAMSAY
Client Project #: FEBRUARY 9,2012
P.O. #:
Site Location: FARO MINE COMPLEX

Quality Assurance Report (Continued)

Maxxam Job Number: VB211504

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
(1) Sample analysed past recommended hold time

Validation Signature Page

Maxxam Job #: B211504

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



ROB REINERT, Data Validation Coordinator

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: **B211504**

COC #: _____



Page: 1 of 1

Invoice To: Require Report? Yes No

Report To: _____

Company Name: #4337 Denison Environmental Services
 Contact Name: Kevin Ramsay
 Address: Box 280, Faro, Yukon PC: Y0B 1K0
 Phone / Fax#: Ph: 867-994-2600 Fax: _____
 E-mail: kramsay@denisonenvironmental.com

Company Name: #4337 Denison Environmental Services
 Contact Name: Kevin Ramsay
 Address: Box 280, Faro, Yukon PC: Y0B 1K0
 Phone / Fax#: Ph: 867-994-2600 Fax: _____
 E-mail: kramsay@denisonenvironmental.com

PO #:
Quotation #:
Project #:
Proj. Name: February 9, 2012
Location: Faro Mine Complex
Sampled by: N. Gardiner/ B. Bekk/ C. Fulton

- REGULATORY REQUIREMENTS: SERVICE REQUESTED:
- CSR
 - CCME
 - BC Water Quality
 - Other _____
 - DRINKING WATER
- Regular Turn Around Time (TAT)
 (5 days for most tests)
 RUSH (Please contact the lab)
 1 Day 2 Day 3 Day
 Date Required: _____

SPECIAL INSTRUCTIONS:

Return Cooler Ship Sample Bottles (please specify)

Sample Identification	Sample Type	Date/Time(24hr) Sampled	ANALYSIS REQUESTED										Number of Containers											
			LDL - Dissolved Metals (DM)	LDL - Total Metals	CSR - Dissolved Metals (DM)	CSR - Total Metals	Dissolved Organic Carbon(DOC)	Dissolved Mercury	Acidity	Alkalinity	Chloride	pH		Conductance (EC)	Sulphate	Total Dissolved Solids (TDS)	Total Suspended Solids (TSS)	Ammonia	Nitrate	Hardness	LDL - Total Phosphorus	Colour	Total Organic Carbon (TOC)	Total Mercury
1 NFRC SC-2	Surface W	12/02/09 13:30	X	X			X			X	X	X	X	X	X	X	X	X	X	X	X	X		6
2 NFRC SC-3	Surface W	12/02/09 13:55	X	X			X			X	X	X	X	X	X	X	X	X	X	X	X	X		6
3 NFRC SC-4	Surface W	12/02/09 10:42	X	X			X			X	X	X	X	X	X	X	X	X	X	X	X	X		6
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								



B211504

Print name and sign			Print name and sign			Laboratory Use Only					
*Relinquished By:	Date (yy/mm/dd):	Time (24hr):	Received by:	Date (yy/mm/dd):	Time (24hr):	Temp (A/C/F)	Temp (B/C/F)	Temp (C/C/F)	Gustody Seal	Yes	No
K. Ramsay	12/02/09	18:00	<i>Kevin Ramsay</i>	12/02/10	13:50	7	7	7	Present	<input type="checkbox"/>	<input type="checkbox"/>
Subsamples & evidence									Intact?	<input type="checkbox"/>	<input type="checkbox"/>

IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORDS. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

NH