

Your Project #: MARCH 7 & 8 2012  
 Site Location: FARO MINE COMPLEX  
 Your C.O.C. #: 08345918

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

**Report Date: 2012/03/16**

### CERTIFICATE OF ANALYSIS

**MAXXAM JOB #: B220130**  
**Received: 2012/03/09, 13:30**

Sample Matrix: Seepage  
 # Samples Received: 6

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Acidity pH 4.5 & pH 8.3	6	N/A	2012/03/13	BBY6SOP-00037	SM-2310
Alkalinity - Water	6	2012/03/10	2012/03/10	BBY6SOP-00026, BBY0SOP-00002	SM2320B
Chloride by Automated Colourimetry	6	N/A	2012/03/12	BBY6SOP-00011	SM-4500-CI-
Colour (True)	1	N/A	2012/03/10	BBY6SOP-00021	SM-2120B
Ecotox Report Attachment	1	2012/03/16	2012/03/16		
Conductance - water	6	N/A	2012/03/10	BBY6SOP-00026	SM-2510B
Hardness (calculated as CaCO3)	6	N/A	2012/03/14	BBY7SOP-00002	Calculated Parameter
Mercury (Dissolved) by CVA	1	N/A	2012/03/16	65-A-002-10	EPA 1631B
Ion Balance	6	N/A	2012/03/14	Calc	
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	2	N/A	2012/03/14	BBY7SOP-00002	EPA 200.8
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	4	N/A	2012/03/14	BBY7SOP-00002	EPA 6020A
Elements by ICPMS Low Level (dissolved)	4	N/A	2012/03/14	BBY7SOP-00002	EPA 6020A
Elements by CRC ICPMS (dissolved)	2	N/A	2012/03/13	BBY7SOP-00002	EPA 6020A
Ammonia-N	1	N/A	2012/03/12	BBY6SOP-00009	SM-4500NH3G
Filter and HNO3 Preserve for Metals	6	N/A	2012/03/09	BBY6WI-00001	EPA 200.2
pH Water	6	N/A	2012/03/10	BBY6SOP-00026	SM-4500H+B
Sulphate by Automated Colourimetry	6	N/A	2012/03/12	BBY6SOP-00017	SM4500-SO42
Sublet (Inorganics) (1)	1	N/A	2012/03/15		
Total Suspended Solids-LowLevel	6	2012/03/14	2012/03/14	BBY6SOP-00034	SM-2540 D

Sample Matrix: Surface  
 # Samples Received: 6

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Water	5	2012/03/10	2012/03/10	BBY6SOP-00026, BBY0SOP-00002	SM2320B
Chloride by Automated Colourimetry	5	N/A	2012/03/12	BBY6SOP-00011	SM-4500-CI-
Carbon (DOC)	5	N/A	2012/03/12	BBY6SOP-00003	SM-5310C
Ecotox Report Attachment	1	2012/03/16	2012/03/16		
Conductance - water	5	N/A	2012/03/10	BBY6SOP-00026	SM-2510B
Hardness Total (calculated as CaCO3)	5	N/A	2012/03/14		
Hardness (calculated as CaCO3)	5	N/A	2012/03/14	BBY7SOP-00002	Calculated Parameter
Ion Balance	5	N/A	2012/03/14	Calc	
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	5	N/A	2012/03/14	BBY7SOP-00002	EPA 6020A

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**CERTIFICATE OF ANALYSIS**

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Sample Matrix: Surface  
 # Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Elements by ICPMS Low Level (dissolved)	5	N/A	2012/03/14	BBY7SOP-00002	EPA 6020A
Na, K, Ca, Mg, S by CRC ICPMS (total)	5	N/A	2012/03/14	BBY7SOP-00002	EPA 6020A
Elements by ICPMS Low Level (total)	5	N/A	2012/03/13	BBY7SOP-00002	EPA 6020A
Ammonia-N	5	N/A	2012/03/12	BBY6SOP-00009	SM-4500NH3G
Nitrate + Nitrite (N)	5	N/A	2012/03/10	BBY6SOP-00010	USEPA 353.2
Nitrite (N) by CFA	5	N/A	2012/03/10	BBY6SOP-00010	EPA 353.2
Nitrogen - Nitrate (as N)	5	N/A	2012/03/12	BBY6SOP-00010	Based on EPA 353.2
Filter and HNO3 Preserve for Metals	5	N/A	2012/03/09	BBY6WI-00001	EPA 200.2
pH Water	5	N/A	2012/03/10	BBY6SOP-00026	SM-4500H+B
Sulphate by Automated Colourimetry	4	N/A	2012/03/12	BBY6SOP-00017	SM4500-SO42
Sulphate by Automated Colourimetry	1	N/A	2012/03/13	BBY6SOP-00017	SM4500-SO42
Total Dissolved Solids (Filt. Residue)	5	2012/03/14	2012/03/14	BBY6SOP-00033	SM 2540C
Carbon (Total Organic)	5	N/A	2012/03/12	BBY6SOP-00003	SM-5310C
Total Suspended Solids-LowLevel	5	2012/03/14	2012/03/14	BBY6SOP-00034	SM-2540 D

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

(1) This test was performed by Maxxam Ontario (From Burnaby)

**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 #: B220130  
 Report Date: 2012/03/16

DENISON ENVIRONMENTAL SERVICES  
 Client Project #: MARCH 7 & 8 2012  
 Site Location: FARO MINE COMPLEX  
 Sampler Initials: NG

### RESULTS OF CHEMICAL ANALYSES OF SEEPAGE

Maxxam ID		CX4504		CX4505	CX4507	CX4508		
Sampling Date		2012/03/07		2012/03/07	2012/03/08	2012/03/08		
		09:50		09:36	14:43	13:56		
COC Number		08345918		08345918	08345918	08345918		
	<b>Units</b>	<b>A30</b>	<b>RDL</b>	<b>FD-40</b>	<b>X11</b>	<b>X12</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Misc. Inorganics</b>								
Acidity (pH 4.5)	mg/L	<0.5	0.5	<0.5	<0.5	<0.5	0.5	5670944
Acidity (pH 8.3)	mg/L	7.5	0.5	133	17.6	3.8	0.5	5670944
<b>Calculated Parameters</b>								
Filter and HNO3 Preservation	N/A	FIELD	N/A	FIELD	FIELD	FIELD	N/A	ONSITE
Ion Balance	N/A	NC	0.010	1.0	0.96	0.94	0.010	5666773
<b>Misc. Inorganics</b>								
Alkalinity (Total as CaCO3)	mg/L	22.2	0.50	<0.50	377	268	0.50	5667113
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	<0.50	<0.50	<0.50	0.50	5667113
Bicarbonate (HCO3)	mg/L	27.1	0.50	<0.50	460	327	0.50	5667113
Carbonate (CO3)	mg/L	<0.50	0.50	<0.50	<0.50	<0.50	0.50	5667113
Hydroxide (OH)	mg/L	<0.50	0.50	<0.50	<0.50	<0.50	0.50	5667113
<b>Anions</b>								
Dissolved Sulphate (SO4)	mg/L	68.8	0.50	820	1700	823	5.0	5672891
Dissolved Chloride (Cl)	mg/L	0.5	0.5	<0.5	2.7	1.5	0.5	5672884
<b>Physical Properties</b>								
Conductivity	uS/cm	206	1.0	1420	3090	1800	1.0	5667120
pH	pH Units	7.08		4.86	7.41	7.73		5667121
<b>Physical Properties</b>								
Total Suspended Solids	mg/L	66.5	1.0	13.7	17.9	1.6	1.0	5674790
RDL = Reportable Detection Limit								

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### RESULTS OF CHEMICAL ANALYSES OF SEEPAGE

Maxxam ID		CX4509	CX4510		
Sampling Date		2012/03/08 14:34	2012/03/08 14:55		
COC Number		08345918	08345918		
	<b>Units</b>	<b>X13</b>	<b>WEIR 3</b>	<b>RDL</b>	<b>QC Batch</b>
<b>Calculated Parameters</b>					
No Parameter	N/A	ATTACHED		N/A	5683791
<b>Misc. Inorganics</b>					
Acidity (pH 4.5)	mg/L	<0.5	<0.5	0.5	5670944
Acidity (pH 8.3)	mg/L	11.8	10.1	0.5	5670944
<b>Parameter</b>					
Subcontract Parameter	N/A	ATTACHED		N/A	5682234
<b>Calculated Parameters</b>					
Filter and HNO3 Preservation	N/A	FIELD	FIELD	N/A	ONSITE
Ion Balance	N/A	1.0	0.91	0.010	5666773
<b>Misc. Inorganics</b>					
Alkalinity (Total as CaCO3)	mg/L	352	328	0.50	5667113
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	0.50	5667113
Bicarbonate (HCO3)	mg/L	429	400	0.50	5667113
Carbonate (CO3)	mg/L	<0.50	<0.50	0.50	5667113
Hydroxide (OH)	mg/L	<0.50	<0.50	0.50	5667113
<b>Anions</b>					
Dissolved Sulphate (SO4)	mg/L	1310	988	5.0	5672891
Dissolved Chloride (Cl)	mg/L	2.3	1.9	0.5	5672884
<b>MISCELLANEOUS</b>					
True Colour	Col. Unit	60		5	5666992
<b>Nutrients</b>					
Ammonia (N)	mg/L	0.84		0.0050	5668298
<b>Physical Properties</b>					
Conductivity	uS/cm	2540	2050	1.0	5667120
pH	pH Units	7.62	7.50		5667121
<b>Physical Properties</b>					
Total Suspended Solids	mg/L	13.8	5.1	1.0	5674790
RDL = Reportable Detection Limit					

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**ELEMENTS BY ATOMIC SPECTROSCOPY (SEEPAGE)**

Maxxam ID		CX4509		
Sampling Date		2012/03/08 14:34		
COC Number		08345918		
	<b>Units</b>	<b>X13</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>				
Dissolved Mercury (Hg)	ug/L	<0.010	0.010	5684118
RDL = Reportable Detection Limit				

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**RESULTS OF CHEMICAL ANALYSES OF SURFACE**

Maxxam ID		CX4499		CX4500	CX4501		
Sampling Date		2012/03/07 11:15		2012/03/07 11:35	2012/03/07 15:20		
COC Number		08345918		08345918	08345918		
	<b>Units</b>	<b>V27</b>	<b>QC Batch</b>	<b>V4</b>	<b>V1</b>	<b>RDL</b>	<b>QC Batch</b>

<b>ANIONS</b>							
Nitrite (N)	mg/L	<0.005	5667143	<0.005	<0.005	0.005	5667143
<b>Calculated Parameters</b>							
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	FIELD	N/A	ONSITE
Ion Balance	N/A	0.95	5666773	1.0	NC	0.010	5666773
Nitrate (N)	mg/L	0.818	5665367	0.174	0.137	0.020	5665367
<b>Misc. Inorganics</b>							
Dissolved Organic Carbon (C)	mg/L	<0.50	5668524	2.19	<0.50	0.50	5668524
Alkalinity (Total as CaCO3)	mg/L	119	5667113	322	47.4	0.50	5667113
Total Organic Carbon (C)	mg/L	1.69	5668608	3.94	0.65	0.50	5668608
Alkalinity (PP as CaCO3)	mg/L	<0.50	5667113	<0.50	<0.50	0.50	5667113
Bicarbonate (HCO3)	mg/L	145	5667113	393	57.9	0.50	5667113
Carbonate (CO3)	mg/L	<0.50	5667113	<0.50	<0.50	0.50	5667113
Hydroxide (OH)	mg/L	<0.50	5667113	<0.50	<0.50	0.50	5667113
<b>Anions</b>							
Dissolved Sulphate (SO4)	mg/L	200	5674804	80.7	11.9	0.50	5672891
Dissolved Chloride (Cl)	mg/L	<0.5	5672884	<0.5	<0.5	0.5	5672884
<b>Nutrients</b>							
Ammonia (N)	mg/L	0.029	5668298	0.056	0.023	0.0050	5668298
Nitrate plus Nitrite (N)	mg/L	0.818	5667142	0.174	0.137	0.020	5667142
<b>Physical Properties</b>							
Conductivity	uS/cm	613	5667120	710	121	1.0	5667120
pH	pH Units	8.10	5667121	8.25	7.84		5667121
<b>Physical Properties</b>							
Total Suspended Solids	mg/L	<1.0	5674790	<1.0	<1.0	1.0	5674790
Total Dissolved Solids	mg/L	416	5677660	442	84	10	5677660

RDL = Reportable Detection Limit

Maxxam Job #: B220130  
 Report Date: 2012/03/16

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### RESULTS OF CHEMICAL ANALYSES OF SURFACE

Maxxam ID		CX4502	CX4503	CX4506		
Sampling Date		2012/03/07 11:45	2012/03/07 11:00	2012/03/08 13:35		
COC Number		08345918	08345918	08345918		
	<b>Units</b>	<b>V5</b>	<b>V8</b>	<b>X5P</b>	<b>RDL</b>	<b>QC Batch</b>
<b>Calculated Parameters</b>						
No Parameter	N/A			ATTACHED	N/A	5683791
<b>ANIONS</b>						
Nitrite (N)	mg/L	<0.005	<0.005		0.005	5667143
<b>Calculated Parameters</b>						
Filter and HNO3 Preservation	N/A	FIELD	FIELD		N/A	ONSITE
Ion Balance	N/A	0.97	0.97		0.010	5666773
Nitrate (N)	mg/L	0.220	0.455		0.020	5665367
<b>Misc. Inorganics</b>						
Dissolved Organic Carbon (C)	mg/L	1.51	1.36		0.50	5668524
Alkalinity (Total as CaCO3)	mg/L	281	228		0.50	5667113
Total Organic Carbon (C)	mg/L	2.54	2.53		0.50	5668608
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50		0.50	5667113
Bicarbonate (HCO3)	mg/L	343	278		0.50	5667113
Carbonate (CO3)	mg/L	<0.50	<0.50		0.50	5667113
Hydroxide (OH)	mg/L	<0.50	<0.50		0.50	5667113
<b>Anions</b>						
Dissolved Sulphate (SO4)	mg/L	146	166		0.50	5672891
Dissolved Chloride (Cl)	mg/L	2.2	1.4		0.5	5672884
<b>Nutrients</b>						
Ammonia (N)	mg/L	0.027	0.015		0.0050	5668298
Nitrate plus Nitrite (N)	mg/L	0.220	0.455		0.020	5667142
<b>Physical Properties</b>						
Conductivity	uS/cm	770	729		1.0	5667120
pH	pH Units	8.26	8.28			5667121
<b>Physical Properties</b>						
Total Suspended Solids	mg/L	1.3	<1.0		1.0	5674790
Total Dissolved Solids	mg/L	506	492		10	5677660
RDL = Reportable Detection Limit						

Maxxam Job #: B220130  
 Report Date: 2012/03/16

DENISON ENVIRONMENTAL SERVICES  
 Client Project #: MARCH 7 & 8 2012  
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### CSR DISSOLVED METALS IN WATER (SEEPAGE)

Maxxam ID		CX4504		CX4505		
Sampling Date		2012/03/07 09:50		2012/03/07 09:36		
COC Number		08345918		08345918		
	<b>Units</b>	<b>A30</b>	<b>RDL</b>	<b>FD-40</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Misc. Inorganics</b>						
Dissolved Hardness (CaCO <sub>3</sub> )	mg/L	81.4	0.5	704	0.5	5664124
<b>Dissolved Metals by ICPMS</b>						
Dissolved Aluminum (Al)	ug/L	11.1	3.0	5910	7.5	5671584
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<1.3	1.3	5671584
Dissolved Arsenic (As)	ug/L	<0.10	0.10	0.54	0.25	5671584
Dissolved Barium (Ba)	ug/L	18.2	1.0	11.0	2.5	5671584
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	5.30	0.25	5671584
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<2.5	2.5	5671584
Dissolved Boron (B)	ug/L	<50	50	<130	130	5671584
Dissolved Cadmium (Cd)	ug/L	2.13	0.010	116	0.025	5671584
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	<2.5	2.5	5671584
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	133	1.3	5671584
Dissolved Copper (Cu)	ug/L	6.44	0.20	701	0.50	5671584
Dissolved Iron (Fe)	ug/L	<5.0	5.0	31	13	5671584
Dissolved Lead (Pb)	ug/L	1.53	0.20	15.8	0.50	5671584
Dissolved Lithium (Li)	ug/L	8.3	5.0	38	13	5671584
Dissolved Manganese (Mn)	ug/L	4.0	1.0	5670	2.5	5671584
Dissolved Molybdenum (Mo)	ug/L	<1.0	1.0	<2.5	2.5	5671584
Dissolved Nickel (Ni)	ug/L	13.3	1.0	266	2.5	5671584
Dissolved Selenium (Se)	ug/L	0.13	0.10	0.32	0.25	5671584
Dissolved Silicon (Si)	ug/L	5860	100	16900	250	5671584
Dissolved Silver (Ag)	ug/L	<0.020	0.020	0.109	0.050	5671584
Dissolved Strontium (Sr)	ug/L	70.5	1.0	380	2.5	5671584
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.13	0.13	5671584
Dissolved Tin (Sn)	ug/L	<5.0	5.0	<13	13	5671584
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<13	13	5671584
Dissolved Uranium (U)	ug/L	<0.10	0.10	4.19	0.25	5671584
Dissolved Vanadium (V)	ug/L	<5.0	5.0	<13	13	5671584
Dissolved Zinc (Zn)	ug/L	4030	5.0	82400	13	5671584
Dissolved Zirconium (Zr)	ug/L	<0.50	0.50	<1.3	1.3	5671584
Dissolved Calcium (Ca)	mg/L	16.7	0.050	129	0.13	5664125
Dissolved Magnesium (Mg)	mg/L	9.67	0.050	92.5	0.13	5664125

RDL = Reportable Detection Limit



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**CSR DISSOLVED METALS IN WATER (SEEPAGE)**

Maxxam ID		CX4504		CX4505		
Sampling Date		2012/03/07 09:50		2012/03/07 09:36		
COC Number		08345918		08345918		
	<b>Units</b>	<b>A30</b>	<b>RDL</b>	<b>FD-40</b>	<b>RDL</b>	<b>QC Batch</b>
Dissolved Potassium (K)	mg/L	0.679	0.050	2.77	0.13	5664125
Dissolved Sodium (Na)	mg/L	2.24	0.050	5.31	0.13	5664125
Dissolved Sulphur (S)	mg/L	25.3	3.0	304	7.5	5664125
RDL = Reportable Detection Limit						

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**LOW LEVEL DISSOLVED METALS IN WATER (SEEPAGE)**

Maxxam ID		CX4507		CX4508		CX4509	CX4510		
Sampling Date		2012/03/08 14:43		2012/03/08 13:56		2012/03/08 14:34	2012/03/08 14:55		
COC Number		08345918		08345918		08345918	08345918		
	<b>Units</b>	<b>X11</b>	<b>RDL</b>	<b>X12</b>	<b>RDL</b>	<b>X13</b>	<b>WEIR 3</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Misc. Inorganics</b>									
Dissolved Hardness (CaCO3)	mg/L	1890	0.5	998	0.5	1580	1130	0.5	5664124
<b>Dissolved Metals by ICPMS</b>									
Dissolved Aluminum (Al)	ug/L	4	1	1.6	0.2	5	3	1	5671837
Dissolved Antimony (Sb)	ug/L	<0.1	0.1	0.03	0.02	<0.1	<0.1	0.1	5671837
Dissolved Arsenic (As)	ug/L	3.1	0.1	0.41	0.02	2.5	0.4	0.1	5671837
Dissolved Barium (Ba)	ug/L	38.6	0.1	44.0	0.02	44.6	45.9	0.1	5671837
Dissolved Beryllium (Be)	ug/L	<0.05	0.05	<0.01	0.01	<0.05	<0.05	0.05	5671837
Dissolved Bismuth (Bi)	ug/L	<0.03	0.03	<0.005	0.005	<0.03	<0.03	0.03	5671837
Dissolved Boron (B)	ug/L	<300	300	<50	50	<300	<300	300	5671837
Dissolved Cadmium (Cd)	ug/L	0.27	0.03	0.015	0.005	0.33	0.22	0.03	5671837
Dissolved Chromium (Cr)	ug/L	<0.5	0.5	<0.1	0.1	<0.5	<0.5	0.5	5671837
Dissolved Cobalt (Co)	ug/L	52.8	0.03	0.406	0.005	35.1	8.57	0.03	5671837
Dissolved Copper (Cu)	ug/L	0.3	0.3	0.35	0.05	<0.3	<0.3	0.3	5671837
Dissolved Iron (Fe)	ug/L	7640	5	292	1	5650	1080	5	5671837
Dissolved Lead (Pb)	ug/L	0.09	0.03	0.066	0.005	0.13	0.10	0.03	5671837
Dissolved Lithium (Li)	ug/L	23	3	8.2	0.5	19	11	3	5671837
Dissolved Manganese (Mn)	ug/L	39100	0.3	900	0.05	31600	19000	0.3	5671837
Dissolved Molybdenum (Mo)	ug/L	0.4	0.3	0.45	0.05	0.7	0.8	0.3	5671837
Dissolved Nickel (Ni)	ug/L	66.3	0.1	1.65	0.02	52.0	37.4	0.1	5671837
Dissolved Selenium (Se)	ug/L	<0.2	0.2	0.18	0.04	<0.2	<0.2	0.2	5671837
Dissolved Silicon (Si)	ug/L	8560	500	5510	100	7610	7010	500	5671837
Dissolved Silver (Ag)	ug/L	<0.03	0.03	<0.005	0.005	<0.03	<0.03	0.03	5671837
Dissolved Strontium (Sr)	ug/L	1410	0.3	846	0.05	1200	851	0.3	5671837
Dissolved Thallium (Tl)	ug/L	0.04	0.01	<0.002	0.002	0.04	0.02	0.01	5671837
Dissolved Tin (Sn)	ug/L	<1	1	<0.2	0.2	<1	<1	1	5671837
Dissolved Titanium (Ti)	ug/L	<3	3	<0.5	0.5	<3	<3	3	5671837
Dissolved Uranium (U)	ug/L	7.31	0.01	17.3	0.002	7.45	10.9	0.01	5671837
Dissolved Vanadium (V)	ug/L	<1	1	<0.2	0.2	<1	<1	1	5671837
Dissolved Zinc (Zn)	ug/L	18.2	0.5	4.0	0.1	23.9	11.5	0.5	5671837
Dissolved Zirconium (Zr)	ug/L	<0.5	0.5	<0.1	0.1	<0.5	<0.5	0.5	5671837
Dissolved Calcium (Ca)	mg/L	556	0.3	289	0.05	457	335	0.3	5665365
Dissolved Magnesium (Mg)	mg/L	122	0.3	67.2	0.05	106	71.3	0.3	5665365

RDL = Reportable Detection Limit

Maxxam Job #: B220130  
 Report Date: 2012/03/16

DENISON ENVIRONMENTAL SERVICES  
 Client Project #: MARCH 7 & 8 2012  
 Site Location: FARO MINE COMPLEX  
 Sampler Initials: NG

**LOW LEVEL DISSOLVED METALS IN WATER (SEEPAGE)**

Maxxam ID		CX4507		CX4508		CX4509	CX4510		
Sampling Date		2012/03/08 14:43		2012/03/08 13:56		2012/03/08 14:34	2012/03/08 14:55		
COC Number		08345918		08345918		08345918	08345918		
	<b>Units</b>	<b>X11</b>	<b>RDL</b>	<b>X12</b>	<b>RDL</b>	<b>X13</b>	<b>WEIR 3</b>	<b>RDL</b>	<b>QC Batch</b>

Dissolved Potassium (K)	mg/L	7.8	0.3	7.39	0.05	7.1	5.5	0.3	5665365
Dissolved Sodium (Na)	mg/L	35.5	0.3	24.2	0.05	33.7	29.6	0.3	5665365
Dissolved Sulphur (S)	mg/L	577	50	308	10	491	307	50	5665365

RDL = Reportable Detection Limit

Maxxam Job #: B220130  
 Report Date: 2012/03/16

 DENISON ENVIRONMENTAL SERVICES  
 Client Project #: MARCH 7 & 8 2012  
 Site Location: FARO MINE COMPLEX  
 Sampler Initials: NG

**LOW LEVEL DISSOLVED METALS IN WATER (SURFACE)**

Maxxam ID		CX4499	CX4500	CX4501	CX4502		
Sampling Date		2012/03/07 11:15	2012/03/07 11:35	2012/03/07 15:20	2012/03/07 11:45		
COC Number		08345918	08345918	08345918	08345918		
	<b>Units</b>	<b>V27</b>	<b>V4</b>	<b>V1</b>	<b>V5</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Misc. Inorganics</b>							
Dissolved Hardness (CaCO <sub>3</sub> )	mg/L	303	397	51.6	409	0.5	5664124
<b>Dissolved Metals by ICPMS</b>							
Dissolved Aluminum (Al)	ug/L	5.9 (1)	4.4	6.0	2.3	0.2	5671837
Dissolved Antimony (Sb)	ug/L	0.12	0.10	0.05	0.15	0.02	5671837
Dissolved Arsenic (As)	ug/L	0.46	0.53	0.30	0.45	0.02	5671837
Dissolved Barium (Ba)	ug/L	52.4	88.4	40.9	80.0	0.02	5671837
Dissolved Beryllium (Be)	ug/L	<0.01	<0.01	<0.01	<0.01	0.01	5671837
Dissolved Bismuth (Bi)	ug/L	0.007	0.015	<0.005	<0.005	0.005	5671837
Dissolved Boron (B)	ug/L	<50	<50	<50	<50	50	5671837
Dissolved Cadmium (Cd)	ug/L	0.061	0.020	0.006	0.051	0.005	5671837
Dissolved Chromium (Cr)	ug/L	0.1	<0.1	0.1	0.1	0.1	5671837
Dissolved Cobalt (Co)	ug/L	0.012	0.051	0.010	0.051	0.005	5671837
Dissolved Copper (Cu)	ug/L	0.60 (1)	0.73 (1)	0.37 (1)	0.61	0.05	5671837
Dissolved Iron (Fe)	ug/L	12 (1)	36	6	9	1	5671837
Dissolved Lead (Pb)	ug/L	1.25 (1)	0.483	1.15 (1)	0.209	0.005	5671837
Dissolved Lithium (Li)	ug/L	2.8	5.8	1.3	5.8	0.5	5671837
Dissolved Manganese (Mn)	ug/L	0.40	48.6	0.19	13.2	0.05	5671837
Dissolved Molybdenum (Mo)	ug/L	0.78	1.09	0.70	2.37	0.05	5671837
Dissolved Nickel (Ni)	ug/L	0.79	0.64	0.20	1.43	0.02	5671837
Dissolved Selenium (Se)	ug/L	0.47	0.88	0.20	2.56	0.04	5671837
Dissolved Silicon (Si)	ug/L	4630	5390	4560	4870	100	5671837
Dissolved Silver (Ag)	ug/L	<0.005	<0.005	<0.005	<0.005	0.005	5671837
Dissolved Strontium (Sr)	ug/L	247	400	83.2	369	0.05	5671837
Dissolved Thallium (Tl)	ug/L	0.008	<0.002	<0.002	0.002	0.002	5671837
Dissolved Tin (Sn)	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5671837
Dissolved Titanium (Ti)	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5671837
Dissolved Uranium (U)	ug/L	6.59	15.9	1.51	6.67	0.002	5671837
Dissolved Vanadium (V)	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5671837
Dissolved Zinc (Zn)	ug/L	30.0	5.4 (1)	2.9 (1)	3.3	0.1	5671837
Dissolved Zirconium (Zr)	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5671837
Dissolved Calcium (Ca)	mg/L	70.9	98.8	16.0	95.6	0.05	5665365
Dissolved Magnesium (Mg)	mg/L	30.6	36.6	2.84	41.5	0.05	5665365

RDL = Reportable Detection Limit

( 1 ) Dissolved greater than total. Reanalysis yields similar results

Maxxam Job #: B220130  
 Report Date: 2012/03/16

DENISON ENVIRONMENTAL SERVICES  
 Client Project #: MARCH 7 & 8 2012  
 Site Location: FARO MINE COMPLEX  
 Sampler Initials: NG

**LOW LEVEL DISSOLVED METALS IN WATER (SURFACE)**

Maxxam ID		CX4499	CX4500	CX4501	CX4502		
Sampling Date		2012/03/07 11:15	2012/03/07 11:35	2012/03/07 15:20	2012/03/07 11:45		
COC Number		08345918	08345918	08345918	08345918		
	<b>Units</b>	<b>V27</b>	<b>V4</b>	<b>V1</b>	<b>V5</b>	<b>RDL</b>	<b>QC Batch</b>

Dissolved Potassium (K)	mg/L	0.92	1.36	0.59	1.48	0.05	5665365
Dissolved Sodium (Na)	mg/L	3.50	4.12	2.15	4.88	0.05	5665365
Dissolved Sulphur (S)	mg/L	70	30	<10	54	10	5665365

RDL = Reportable Detection Limit

Maxxam Job #: B220130  
 Report Date: 2012/03/16

DENISON ENVIRONMENTAL SERVICES  
 Client Project #: MARCH 7 & 8 2012  
 Site Location: FARO MINE COMPLEX  
 Sampler Initials: NG

### LOW LEVEL DISSOLVED METALS IN WATER (SURFACE)

Maxxam ID		CX4503		
Sampling Date		2012/03/07 11:00		
COC Number		08345918		
	<b>Units</b>	<b>V8</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Misc. Inorganics</b>				
Dissolved Hardness (CaCO <sub>3</sub> )	mg/L	379	0.5	5664124
<b>Dissolved Metals by ICPMS</b>				
Dissolved Aluminum (Al)	ug/L	2.5	0.2	5671837
Dissolved Antimony (Sb)	ug/L	0.14	0.02	5671837
Dissolved Arsenic (As)	ug/L	0.52	0.02	5671837
Dissolved Barium (Ba)	ug/L	71.5	0.02	5671837
Dissolved Beryllium (Be)	ug/L	<0.01	0.01	5671837
Dissolved Bismuth (Bi)	ug/L	<0.005	0.005	5671837
Dissolved Boron (B)	ug/L	<50	50	5671837
Dissolved Cadmium (Cd)	ug/L	0.051	0.005	5671837
Dissolved Chromium (Cr)	ug/L	<0.1	0.1	5671837
Dissolved Cobalt (Co)	ug/L	0.040	0.005	5671837
Dissolved Copper (Cu)	ug/L	0.60	0.05	5671837
Dissolved Iron (Fe)	ug/L	11	1	5671837
Dissolved Lead (Pb)	ug/L	0.221	0.005	5671837
Dissolved Lithium (Li)	ug/L	5.8	0.5	5671837
Dissolved Manganese (Mn)	ug/L	3.49	0.05	5671837
Dissolved Molybdenum (Mo)	ug/L	1.36	0.05	5671837
Dissolved Nickel (Ni)	ug/L	1.54	0.02	5671837
Dissolved Selenium (Se)	ug/L	1.40	0.04	5671837
Dissolved Silicon (Si)	ug/L	4380	100	5671837
Dissolved Silver (Ag)	ug/L	<0.005	0.005	5671837
Dissolved Strontium (Sr)	ug/L	348	0.05	5671837
Dissolved Thallium (Tl)	ug/L	0.004	0.002	5671837
Dissolved Tin (Sn)	ug/L	<0.2	0.2	5671837
Dissolved Titanium (Ti)	ug/L	<0.5	0.5	5671837
Dissolved Uranium (U)	ug/L	8.79	0.002	5671837
Dissolved Vanadium (V)	ug/L	<0.2	0.2	5671837
Dissolved Zinc (Zn)	ug/L	11.1	0.1	5671837
Dissolved Zirconium (Zr)	ug/L	<0.1	0.1	5671837
Dissolved Calcium (Ca)	mg/L	86.1	0.05	5665365
Dissolved Magnesium (Mg)	mg/L	39.8	0.05	5665365

RDL = Reportable Detection Limit

Maxxam Job #: B220130  
 Report Date: 2012/03/16

DENISON ENVIRONMENTAL SERVICES  
 Client Project #: MARCH 7 & 8 2012  
 Site Location: FARO MINE COMPLEX  
 Sampler Initials: NG

**LOW LEVEL DISSOLVED METALS IN WATER (SURFACE)**

Maxxam ID		CX4503		
Sampling Date		2012/03/07 11:00		
COC Number		08345918		
	<b>Units</b>	<b>V8</b>	<b>RDL</b>	<b>QC Batch</b>

Dissolved Potassium (K)	mg/L	1.38	0.05	5665365
Dissolved Sodium (Na)	mg/L	4.77	0.05	5665365
Dissolved Sulphur (S)	mg/L	65	10	5665365

RDL = Reportable Detection Limit

Maxxam Job #: B220130  
 Report Date: 2012/03/16

 DENISON ENVIRONMENTAL SERVICES  
 Client Project #: MARCH 7 & 8 2012  
 Site Location: FARO MINE COMPLEX  
 Sampler Initials: NG

**LOW LEVEL TOTAL METALS IN WATER (SURFACE)**

Maxxam ID		CX4499	CX4500	CX4501	CX4502	CX4503		
Sampling Date		2012/03/07 11:15	2012/03/07 11:35	2012/03/07 15:20	2012/03/07 11:45	2012/03/07 11:00		
COC Number		08345918	08345918	08345918	08345918	08345918		
	<b>Units</b>	<b>V27</b>	<b>V4</b>	<b>V1</b>	<b>V5</b>	<b>V8</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Calculated Parameters</b>								
Total Hardness (CaCO3)	mg/L	293	368	49.9	403	378	0.50	5664421
<b>Total Metals by ICPMS</b>								
Total Aluminum (Al)	ug/L	4.2	5.5	6.4	25.5	10.3	0.2	5671275
Total Antimony (Sb)	ug/L	0.11	0.09	0.04	0.15	0.15	0.02	5671275
Total Arsenic (As)	ug/L	0.44	0.61	0.28	0.51	0.44	0.02	5671275
Total Barium (Ba)	ug/L	51.2	92.5	40.5	80.3	70.2	0.02	5671275
Total Beryllium (Be)	ug/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	5671275
Total Bismuth (Bi)	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	5671275
Total Boron (B)	ug/L	<50	<50	<50	<50	<50	50	5671275
Total Cadmium (Cd)	ug/L	0.059	0.019	<0.005	0.053	0.063	0.005	5671275
Total Chromium (Cr)	ug/L	<0.1	<0.1	0.1	0.1	0.1	0.1	5671275
Total Cobalt (Co)	ug/L	0.013	0.053	0.978	0.062	0.048	0.005	5671275
Total Copper (Cu)	ug/L	0.47	0.47	0.24	0.71	0.81	0.05	5671275
Total Iron (Fe)	ug/L	7	156	20	65	35	1	5671275
Total Lead (Pb)	ug/L	0.283	0.690	0.128	0.343	0.277	0.005	5671275
Total Lithium (Li)	ug/L	3.0	6.5	1.4	5.9	6.3	0.5	5671275
Total Manganese (Mn)	ug/L	0.57	45.2	0.44	14.9	4.58	0.05	5671275
Total Molybdenum (Mo)	ug/L	0.78	1.15	1.06	2.31	1.30	0.05	5671275
Total Nickel (Ni)	ug/L	0.67	0.60	0.23	1.35	1.67	0.02	5671275
Total Selenium (Se)	ug/L	0.48	0.90	0.21	2.87	1.55	0.04	5671275
Total Silicon (Si)	ug/L	4170	4730	4410	4740	4240	100	5671275
Total Silver (Ag)	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	5671275
Total Strontium (Sr)	ug/L	246	405	81.9	367	356	0.05	5671275
Total Thallium (Tl)	ug/L	0.009	<0.002	<0.002	0.003	0.005	0.002	5671275
Total Tin (Sn)	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	5671275
Total Titanium (Ti)	ug/L	<0.5	<0.5	<0.5	0.8	<0.5	0.5	5671275
Total Uranium (U)	ug/L	5.70	14.4	1.25	5.73	7.75	0.002	5671275
Total Vanadium (V)	ug/L	<0.2	<0.2	<0.2	0.3	<0.2	0.2	5671275
Total Zinc (Zn)	ug/L	26.1	2.0	0.9	3.7	12.3	0.1	5671275
Total Zirconium (Zr)	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	5671275
Total Calcium (Ca)	mg/L	65.0	87.7	15.6	95.2	84.4	0.05	5665366
Total Magnesium (Mg)	mg/L	31.7	36.3	2.65	40.3	40.5	0.05	5665366

RDL = Reportable Detection Limit



Maxxam Job #: B220130  
 Report Date: 2012/03/16

DENISON ENVIRONMENTAL SERVICES  
 Client Project #: MARCH 7 & 8 2012  
 Site Location: FARO MINE COMPLEX  
 Sampler Initials: NG

**LOW LEVEL TOTAL METALS IN WATER (SURFACE)**

Maxxam ID		CX4499	CX4500	CX4501	CX4502	CX4503		
Sampling Date		2012/03/07 11:15	2012/03/07 11:35	2012/03/07 15:20	2012/03/07 11:45	2012/03/07 11:00		
COC Number		08345918	08345918	08345918	08345918	08345918		
	<b>Units</b>	<b>V27</b>	<b>V4</b>	<b>V1</b>	<b>V5</b>	<b>V8</b>	<b>RDL</b>	<b>QC Batch</b>

Total Potassium (K)	mg/L	0.89	1.28	0.55	1.36	1.36	0.05	5665366
Total Sodium (Na)	mg/L	3.65	4.07	2.17	4.76	4.96	0.05	5665366
Total Sulphur (S)	mg/L	67	27	<10	49	61	10	5665366

RDL = Reportable Detection Limit

Maxxam Job #: B220130  
Report Date: 2012/03/16

DENISON ENVIRONMENTAL SERVICES  
Client Project #: MARCH 7 & 8 2012  
Site Location: FARO MINE COMPLEX  
Sampler Initials: NG

**General Comments**

Sample CX4501-01: Ion Balance: NC = Not Calculable due to low ion sum [ $< 3$  meq/L].

Sample CX4504-01: Ion Balance: NC = Not Calculable due to low ion sum [ $< 3$  meq/L].

**LOW LEVEL DISSOLVED METALS IN WATER (SEEPAGE) Comments**

Sample CX4507-03 Elements by ICPMS Low Level (dissolved): RDL raised due to sample matrix interference.

Sample CX4509-03 Elements by ICPMS Low Level (dissolved): RDL raised due to sample matrix interference.

Sample CX4510-03 Elements by ICPMS Low Level (dissolved): RDL raised due to sample matrix interference.

**Results relate only to the items tested.**

DENISON ENVIRONMENTAL SERVICES  
 Attention: KEVIN RAMSAY  
 Client Project #: MARCH 7 & 8 2012  
 P.O. #:  
 Site Location: FARO MINE COMPLEX

### Quality Assurance Report

Maxxam Job Number: VB220130

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5666992 CR5	Method Blank	True Colour	2012/03/10	<5		Col. Unit	
	RPD [CX4509-02]	True Colour	2012/03/10	0		%	20
5667113 MM3	Matrix Spike	Alkalinity (Total as CaCO3)	2012/03/10		NC	%	80 - 120
	Spiked Blank	Alkalinity (Total as CaCO3)	2012/03/10		97	%	80 - 120
	Method Blank	Alkalinity (Total as CaCO3)	2012/03/10	0.53, RDL=0.50		mg/L	
		Alkalinity (PP as CaCO3)	2012/03/10	<0.50		mg/L	
		Bicarbonate (HCO3)	2012/03/10	0.65, RDL=0.50		mg/L	
		Carbonate (CO3)	2012/03/10	<0.50		mg/L	
		Hydroxide (OH)	2012/03/10	<0.50		mg/L	
	RPD	Alkalinity (Total as CaCO3)	2012/03/10	NC		%	20
		Alkalinity (PP as CaCO3)	2012/03/10	NC		%	20
		Bicarbonate (HCO3)	2012/03/10	NC		%	20
		Carbonate (CO3)	2012/03/10	NC		%	20
		Hydroxide (OH)	2012/03/10	NC		%	20
5667120 MM3	Spiked Blank	Conductivity	2012/03/10		100	%	80 - 120
	Method Blank	Conductivity	2012/03/10	<1.0		uS/cm	
	RPD	Conductivity	2012/03/10	0		%	20
5667142 CB9	Matrix Spike	Nitrate plus Nitrite (N)	2012/03/10		115	%	80 - 120
	Spiked Blank	Nitrate plus Nitrite (N)	2012/03/10		111	%	80 - 120
	Method Blank	Nitrate plus Nitrite (N)	2012/03/10	<0.020		mg/L	
	RPD [CX4501-02]	Nitrate plus Nitrite (N)	2012/03/10	0.9		%	25
5667143 CB9	Matrix Spike	Nitrite (N)	2012/03/10		103	%	80 - 120
	Spiked Blank	Nitrite (N)	2012/03/10		105	%	80 - 120
	Method Blank	Nitrite (N)	2012/03/10	<0.005		mg/L	
	RPD [CX4501-02]	Nitrite (N)	2012/03/10	NC		%	20
5668298 CK	Matrix Spike	Ammonia (N)	2012/03/12		NC	%	80 - 120
	Spiked Blank	Ammonia (N)	2012/03/12		103	%	80 - 120
	Method Blank	Ammonia (N)	2012/03/12	<0.0050		mg/L	
	RPD [CX4499-05]	Ammonia (N)	2012/03/12	0.09		%	20
5668524 IC4	Matrix Spike	Dissolved Organic Carbon (C)	2012/03/12		NC	%	80 - 120
	Spiked Blank	Dissolved Organic Carbon (C)	2012/03/12		112	%	80 - 120
	Method Blank	Dissolved Organic Carbon (C)	2012/03/12	<0.50		mg/L	
	RPD [CX4499-06]	Dissolved Organic Carbon (C)	2012/03/12	NC		%	20
5668608 IC4	Matrix Spike	Total Organic Carbon (C)	2012/03/12		105	%	80 - 120
	Spiked Blank	Total Organic Carbon (C)	2012/03/12		101	%	80 - 120
	Method Blank	Total Organic Carbon (C)	2012/03/12	<0.50		mg/L	
	RPD [CX4499-05]	Total Organic Carbon (C)	2012/03/12	NC		%	20
5670944 WAY	Spiked Blank	Acidity (pH 8.3)	2012/03/13		94	%	80 - 120
	Method Blank	Acidity (pH 4.5)	2012/03/13	<0.5		mg/L	
		Acidity (pH 8.3)	2012/03/13	<0.5		mg/L	
	RPD [CX4504-02]	Acidity (pH 4.5)	2012/03/13	NC		%	20
		Acidity (pH 8.3)	2012/03/13	17.3		%	20
5671275 AA1	Matrix Spike	Total Aluminum (Al)	2012/03/13		98	%	80 - 120
		Total Antimony (Sb)	2012/03/13		102	%	80 - 120
		Total Arsenic (As)	2012/03/13		99	%	80 - 120
		Total Barium (Ba)	2012/03/13		NC	%	80 - 120
		Total Beryllium (Be)	2012/03/13		107	%	80 - 120
		Total Bismuth (Bi)	2012/03/13		99	%	80 - 120
		Total Cadmium (Cd)	2012/03/13		100	%	80 - 120
		Total Chromium (Cr)	2012/03/13		96	%	80 - 120
		Total Cobalt (Co)	2012/03/13		97	%	80 - 120
		Total Copper (Cu)	2012/03/13		97	%	80 - 120
		Total Iron (Fe)	2012/03/13		98	%	80 - 120
		Total Lead (Pb)	2012/03/13		96	%	80 - 120
		Total Lithium (Li)	2012/03/13		98	%	80 - 120

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
5671275 AA1	Matrix Spike	Total Manganese (Mn)	2012/03/13		94	%	80 - 120	
		Total Molybdenum (Mo)	2012/03/13		92	%	80 - 120	
		Total Nickel (Ni)	2012/03/13		96	%	80 - 120	
		Total Selenium (Se)	2012/03/13		110	%	80 - 120	
		Total Silver (Ag)	2012/03/13		109	%	80 - 120	
		Total Strontium (Sr)	2012/03/13		NC	%	80 - 120	
		Total Thallium (Tl)	2012/03/13		94	%	80 - 120	
		Total Tin (Sn)	2012/03/13		112	%	80 - 120	
		Total Titanium (Ti)	2012/03/13		96	%	80 - 120	
		Total Uranium (U)	2012/03/13		99	%	80 - 120	
		Total Vanadium (V)	2012/03/13		97	%	80 - 120	
		Total Zinc (Zn)	2012/03/13		NC	%	80 - 120	
		Spiked Blank	Total Aluminum (Al)	2012/03/13		101	%	80 - 120
			Total Antimony (Sb)	2012/03/13		103	%	80 - 120
			Total Arsenic (As)	2012/03/13		95	%	80 - 120
	Total Barium (Ba)		2012/03/13		102	%	80 - 120	
	Total Beryllium (Be)		2012/03/13		104	%	80 - 120	
	Total Bismuth (Bi)		2012/03/13		100	%	80 - 120	
	Total Cadmium (Cd)		2012/03/13		98	%	80 - 120	
	Total Chromium (Cr)		2012/03/13		99	%	80 - 120	
	Total Cobalt (Co)		2012/03/13		98	%	80 - 120	
	Total Copper (Cu)		2012/03/13		99	%	80 - 120	
	Total Iron (Fe)		2012/03/13		101	%	80 - 120	
	Total Lead (Pb)		2012/03/13		101	%	80 - 120	
	Total Lithium (Li)		2012/03/13		101	%	80 - 120	
	Total Manganese (Mn)		2012/03/13		99	%	80 - 120	
	Total Molybdenum (Mo)		2012/03/13		95	%	80 - 120	
	Total Nickel (Ni)		2012/03/13		100	%	80 - 120	
	Total Selenium (Se)		2012/03/13		102	%	80 - 120	
	Method Blank		Total Silver (Ag)	2012/03/13		94	%	80 - 120
		Total Strontium (Sr)	2012/03/13		101	%	80 - 120	
		Total Thallium (Tl)	2012/03/13		102	%	80 - 120	
		Total Tin (Sn)	2012/03/13		98	%	80 - 120	
Total Titanium (Ti)		2012/03/13		94	%	80 - 120		
Total Uranium (U)		2012/03/13		101	%	80 - 120		
Total Vanadium (V)		2012/03/13		96	%	80 - 120		
Total Zinc (Zn)		2012/03/13		99	%	80 - 120		
Total Aluminum (Al)		2012/03/13	<0.2		ug/L			
Total Antimony (Sb)		2012/03/13	<0.02		ug/L			
Total Arsenic (As)		2012/03/13	<0.02		ug/L			
Total Barium (Ba)		2012/03/13	<0.02		ug/L			
Total Beryllium (Be)		2012/03/13	<0.01		ug/L			
Total Bismuth (Bi)		2012/03/13	<0.005		ug/L			
Total Boron (B)		2012/03/13	<50		ug/L			
Total Cadmium (Cd)		2012/03/13	<0.005		ug/L			
Total Chromium (Cr)		2012/03/13	<0.1		ug/L			
Total Cobalt (Co)		2012/03/13	<0.005		ug/L			
Total Copper (Cu)	2012/03/13	<0.05		ug/L				
Total Iron (Fe)	2012/03/13	<1		ug/L				
Total Lead (Pb)	2012/03/13	<0.005		ug/L				
Total Lithium (Li)	2012/03/13	<0.5		ug/L				
Total Manganese (Mn)	2012/03/13	<0.05		ug/L				
Total Molybdenum (Mo)	2012/03/13	<0.05		ug/L				
Total Nickel (Ni)	2012/03/13	<0.02		ug/L				
Total Selenium (Se)	2012/03/13	<0.04		ug/L				

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
5671275 AA1	Method Blank	Total Silicon (Si)	2012/03/13	<100		ug/L		
		Total Silver (Ag)	2012/03/13	<0.005		ug/L		
		Total Strontium (Sr)	2012/03/13	<0.05		ug/L		
		Total Thallium (Tl)	2012/03/13	<0.002		ug/L		
		Total Tin (Sn)	2012/03/13	<0.2		ug/L		
		Total Titanium (Ti)	2012/03/13	<0.5		ug/L		
		Total Uranium (U)	2012/03/13	<0.002		ug/L		
		Total Vanadium (V)	2012/03/13	<0.2		ug/L		
		Total Zinc (Zn)	2012/03/13	<0.1		ug/L		
		Total Zirconium (Zr)	2012/03/13	<0.1		ug/L		
		RPD	Total Aluminum (Al)	2012/03/13	2.0		%	20
			Total Antimony (Sb)	2012/03/13	NC		%	20
			Total Arsenic (As)	2012/03/13	25.5 (f)		%	20
			Total Barium (Ba)	2012/03/13	1.6		%	20
			Total Beryllium (Be)	2012/03/13	NC		%	20
			Total Bismuth (Bi)	2012/03/13	NC		%	20
			Total Boron (B)	2012/03/13	NC		%	20
			Total Cadmium (Cd)	2012/03/13	3.4		%	20
			Total Chromium (Cr)	2012/03/13	NC		%	20
			Total Cobalt (Co)	2012/03/13	NC		%	20
			Total Copper (Cu)	2012/03/13	4.6		%	20
			Total Iron (Fe)	2012/03/13	0.3		%	20
			Total Lead (Pb)	2012/03/13	10.3		%	20
			Total Lithium (Li)	2012/03/13	NC		%	20
			Total Manganese (Mn)	2012/03/13	3.0		%	20
			Total Molybdenum (Mo)	2012/03/13	NC		%	20
			Total Nickel (Ni)	2012/03/13	NC		%	20
			Total Selenium (Se)	2012/03/13	2.7		%	20
			Total Silicon (Si)	2012/03/13	0.3		%	20
			Total Silver (Ag)	2012/03/13	NC		%	20
			Total Strontium (Sr)	2012/03/13	1.2		%	20
			Total Thallium (Tl)	2012/03/13	NC		%	20
			Total Tin (Sn)	2012/03/13	NC		%	20
			Total Titanium (Ti)	2012/03/13	NC		%	20
Total Uranium (U)	2012/03/13		7.6		%	20		
Total Vanadium (V)	2012/03/13		NC		%	20		
Total Zinc (Zn)	2012/03/13		3.5		%	20		
Total Zirconium (Zr)	2012/03/13		NC		%	20		
5671584 GS2	Matrix Spike	Dissolved Aluminum (Al)	2012/03/13		NC	%	80 - 120	
		Dissolved Antimony (Sb)	2012/03/13		105	%	80 - 120	
		Dissolved Arsenic (As)	2012/03/13		100	%	80 - 120	
		Dissolved Barium (Ba)	2012/03/13		NC	%	80 - 120	
		Dissolved Beryllium (Be)	2012/03/13		104	%	80 - 120	
		Dissolved Bismuth (Bi)	2012/03/13		97	%	80 - 120	
		Dissolved Cadmium (Cd)	2012/03/13		103	%	80 - 120	
		Dissolved Chromium (Cr)	2012/03/13		NC	%	80 - 120	
		Dissolved Cobalt (Co)	2012/03/13		97	%	80 - 120	
		Dissolved Copper (Cu)	2012/03/13		104	%	80 - 120	
		Dissolved Iron (Fe)	2012/03/13		NC	%	80 - 120	
		Dissolved Lead (Pb)	2012/03/13		99	%	80 - 120	
		Dissolved Lithium (Li)	2012/03/13		102	%	80 - 120	
		Dissolved Manganese (Mn)	2012/03/13		NC	%	80 - 120	
		Dissolved Molybdenum (Mo)	2012/03/13		100	%	80 - 120	
		Dissolved Nickel (Ni)	2012/03/13		99	%	80 - 120	
		Dissolved Selenium (Se)	2012/03/13		107	%	80 - 120	

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
5671584 GS2	Matrix Spike	Dissolved Silver (Ag)	2012/03/13		73 (1)	%	80 - 120	
		Dissolved Strontium (Sr)	2012/03/13		NC	%	80 - 120	
		Dissolved Thallium (Tl)	2012/03/13		110	%	80 - 120	
		Dissolved Tin (Sn)	2012/03/13		98	%	80 - 120	
		Dissolved Titanium (Ti)	2012/03/13		NC	%	80 - 120	
		Dissolved Uranium (U)	2012/03/13		95	%	80 - 120	
		Dissolved Vanadium (V)	2012/03/13		NC	%	80 - 120	
		Dissolved Zinc (Zn)	2012/03/13		NC	%	80 - 120	
		Spiked Blank	Dissolved Aluminum (Al)	2012/03/13		105	%	80 - 120
			Dissolved Antimony (Sb)	2012/03/13		108	%	80 - 120
			Dissolved Arsenic (As)	2012/03/13		98	%	80 - 120
			Dissolved Barium (Ba)	2012/03/13		100	%	80 - 120
			Dissolved Beryllium (Be)	2012/03/13		100	%	80 - 120
			Dissolved Bismuth (Bi)	2012/03/13		104	%	80 - 120
			Dissolved Cadmium (Cd)	2012/03/13		101	%	80 - 120
	Dissolved Chromium (Cr)		2012/03/13		102	%	80 - 120	
	Dissolved Cobalt (Co)		2012/03/13		96	%	80 - 120	
	Dissolved Copper (Cu)		2012/03/13		96	%	80 - 120	
	Dissolved Iron (Fe)		2012/03/13		104	%	80 - 120	
	Dissolved Lead (Pb)		2012/03/13		98	%	80 - 120	
	Dissolved Lithium (Li)		2012/03/13		102	%	80 - 120	
	Dissolved Manganese (Mn)		2012/03/13		98	%	80 - 120	
	Dissolved Molybdenum (Mo)		2012/03/13		98	%	80 - 120	
	Dissolved Nickel (Ni)		2012/03/13		96	%	80 - 120	
	Dissolved Selenium (Se)		2012/03/13		109	%	80 - 120	
	Dissolved Silver (Ag)		2012/03/13		104	%	80 - 120	
	Dissolved Strontium (Sr)	2012/03/13		97	%	80 - 120		
	Dissolved Thallium (Tl)	2012/03/13		110	%	80 - 120		
	Dissolved Tin (Sn)	2012/03/13		106	%	80 - 120		
	Dissolved Titanium (Ti)	2012/03/13		103	%	80 - 120		
	Dissolved Uranium (U)	2012/03/13		96	%	80 - 120		
	Dissolved Vanadium (V)	2012/03/13		101	%	80 - 120		
	Dissolved Zinc (Zn)	2012/03/13		100	%	80 - 120		
Method Blank	Dissolved Aluminum (Al)	2012/03/13		<3.0		ug/L		
	Dissolved Antimony (Sb)	2012/03/13		<0.50		ug/L		
	Dissolved Arsenic (As)	2012/03/13		<0.10		ug/L		
	Dissolved Barium (Ba)	2012/03/13		<1.0		ug/L		
	Dissolved Beryllium (Be)	2012/03/13		<0.10		ug/L		
	Dissolved Bismuth (Bi)	2012/03/13		<1.0		ug/L		
	Dissolved Boron (B)	2012/03/13		<50		ug/L		
	Dissolved Cadmium (Cd)	2012/03/13		<0.010		ug/L		
	Dissolved Chromium (Cr)	2012/03/13		<1.0		ug/L		
	Dissolved Cobalt (Co)	2012/03/13		<0.50		ug/L		
	Dissolved Copper (Cu)	2012/03/13		<0.20		ug/L		
	Dissolved Iron (Fe)	2012/03/13		<5.0		ug/L		
	Dissolved Lead (Pb)	2012/03/13		<0.20		ug/L		
	Dissolved Lithium (Li)	2012/03/13		<5.0		ug/L		
	Dissolved Manganese (Mn)	2012/03/13		<1.0		ug/L		
	Dissolved Molybdenum (Mo)	2012/03/13		<1.0		ug/L		
	Dissolved Nickel (Ni)	2012/03/13		<1.0		ug/L		
	Dissolved Selenium (Se)	2012/03/13		<0.10		ug/L		
Dissolved Silicon (Si)	2012/03/13		<100		ug/L			
Dissolved Silver (Ag)	2012/03/13		<0.020		ug/L			
Dissolved Strontium (Sr)	2012/03/13		<1.0		ug/L			
Dissolved Thallium (Tl)	2012/03/13		<0.050		ug/L			

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5671584 GS2	Method Blank	Dissolved Tin (Sn)	2012/03/13	<5.0		ug/L	
		Dissolved Titanium (Ti)	2012/03/13	<5.0		ug/L	
		Dissolved Uranium (U)	2012/03/13	<0.10		ug/L	
		Dissolved Vanadium (V)	2012/03/13	<5.0		ug/L	
		Dissolved Zinc (Zn)	2012/03/13	<5.0		ug/L	
5671837 AA1	RPD Matrix Spike	Dissolved Zirconium (Zr)	2012/03/13	<0.50		ug/L	
		Dissolved Chromium (Cr)	2012/03/13	0.4		%	20
		Dissolved Aluminum (Al)	2012/03/14		NC	%	80 - 120
		Dissolved Antimony (Sb)	2012/03/14		NC	%	80 - 120
		Dissolved Arsenic (As)	2012/03/14		NC	%	80 - 120
		Dissolved Barium (Ba)	2012/03/14		98	%	80 - 120
		Dissolved Beryllium (Be)	2012/03/14		97	%	80 - 120
		Dissolved Bismuth (Bi)	2012/03/14		102	%	80 - 120
		Dissolved Cadmium (Cd)	2012/03/14		104	%	80 - 120
		Dissolved Chromium (Cr)	2012/03/14		103	%	80 - 120
		Dissolved Cobalt (Co)	2012/03/14		101	%	80 - 120
		Dissolved Copper (Cu)	2012/03/14		102	%	80 - 120
		Dissolved Iron (Fe)	2012/03/14		114	%	80 - 120
		Dissolved Lead (Pb)	2012/03/14		99	%	80 - 120
		Dissolved Lithium (Li)	2012/03/14		95	%	80 - 120
		Dissolved Manganese (Mn)	2012/03/14		NC	%	80 - 120
		Dissolved Molybdenum (Mo)	2012/03/14		NC	%	80 - 120
		Dissolved Nickel (Ni)	2012/03/14		100	%	80 - 120
		Dissolved Selenium (Se)	2012/03/14		108	%	80 - 120
		Dissolved Silver (Ag)	2012/03/14		110	%	80 - 120
Dissolved Strontium (Sr)	2012/03/14		NC	%	80 - 120		
Dissolved Thallium (Tl)	2012/03/14		100	%	80 - 120		
Dissolved Tin (Sn)	2012/03/14		109	%	80 - 120		
Dissolved Titanium (Ti)	2012/03/14		104	%	80 - 120		
Dissolved Uranium (U)	2012/03/14		106	%	80 - 120		
Dissolved Vanadium (V)	2012/03/14		105	%	80 - 120		
Dissolved Zinc (Zn)	2012/03/14		109	%	80 - 120		
Spiked Blank	Spiked Blank	Dissolved Aluminum (Al)	2012/03/14		114	%	80 - 120
		Dissolved Antimony (Sb)	2012/03/14		108	%	80 - 120
		Dissolved Arsenic (As)	2012/03/14		101	%	80 - 120
		Dissolved Barium (Ba)	2012/03/14		106	%	80 - 120
		Dissolved Beryllium (Be)	2012/03/14		94	%	80 - 120
		Dissolved Bismuth (Bi)	2012/03/14		103	%	80 - 120
		Dissolved Cadmium (Cd)	2012/03/14		104	%	80 - 120
		Dissolved Chromium (Cr)	2012/03/14		102	%	80 - 120
		Dissolved Cobalt (Co)	2012/03/14		102	%	80 - 120
		Dissolved Copper (Cu)	2012/03/14		102	%	80 - 120
		Dissolved Iron (Fe)	2012/03/14		116	%	80 - 120
		Dissolved Lead (Pb)	2012/03/14		103	%	80 - 120
		Dissolved Lithium (Li)	2012/03/14		100	%	80 - 120
		Dissolved Manganese (Mn)	2012/03/14		107	%	80 - 120
		Dissolved Molybdenum (Mo)	2012/03/14		100	%	80 - 120
		Dissolved Nickel (Ni)	2012/03/14		104	%	80 - 120
		Dissolved Selenium (Se)	2012/03/14		102	%	80 - 120
		Dissolved Silver (Ag)	2012/03/14		100	%	80 - 120
		Dissolved Strontium (Sr)	2012/03/14		108	%	80 - 120
		Dissolved Thallium (Tl)	2012/03/14		107	%	80 - 120
Dissolved Tin (Sn)	2012/03/14		107	%	80 - 120		
Dissolved Titanium (Ti)	2012/03/14		102	%	80 - 120		
Dissolved Uranium (U)	2012/03/14		105	%	80 - 120		

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5671837 AA1	Spiked Blank	Dissolved Vanadium (V)	2012/03/14		100	%	80 - 120
		Dissolved Zinc (Zn)	2012/03/14		108	%	80 - 120
	Method Blank	Dissolved Aluminum (Al)	2012/03/14	0.3, RDL=0.2		ug/L	
		Dissolved Antimony (Sb)	2012/03/14	<0.02		ug/L	
		Dissolved Arsenic (As)	2012/03/14	<0.02		ug/L	
		Dissolved Barium (Ba)	2012/03/14	<0.02		ug/L	
		Dissolved Beryllium (Be)	2012/03/14	<0.01		ug/L	
		Dissolved Bismuth (Bi)	2012/03/14	<0.005		ug/L	
		Dissolved Boron (B)	2012/03/14	<50		ug/L	
		Dissolved Cadmium (Cd)	2012/03/14	<0.005		ug/L	
		Dissolved Chromium (Cr)	2012/03/14	<0.1		ug/L	
		Dissolved Cobalt (Co)	2012/03/14	<0.005		ug/L	
		Dissolved Copper (Cu)	2012/03/14	<0.05		ug/L	
		Dissolved Iron (Fe)	2012/03/14	<1		ug/L	
		Dissolved Lead (Pb)	2012/03/14	<0.005		ug/L	
		Dissolved Lithium (Li)	2012/03/14	<0.5		ug/L	
		Dissolved Manganese (Mn)	2012/03/14	<0.05		ug/L	
		Dissolved Molybdenum (Mo)	2012/03/14	<0.05		ug/L	
		Dissolved Nickel (Ni)	2012/03/14	0.04, RDL=0.02		ug/L	
		Dissolved Selenium (Se)	2012/03/14	<0.04		ug/L	
		Dissolved Silicon (Si)	2012/03/14	<100		ug/L	
		Dissolved Silver (Ag)	2012/03/14	<0.005		ug/L	
		Dissolved Strontium (Sr)	2012/03/14	<0.05		ug/L	
		Dissolved Thallium (Tl)	2012/03/14	<0.002		ug/L	
		Dissolved Tin (Sn)	2012/03/14	<0.2		ug/L	
		Dissolved Titanium (Ti)	2012/03/14	<0.5		ug/L	
		Dissolved Uranium (U)	2012/03/14	<0.002		ug/L	
		Dissolved Vanadium (V)	2012/03/14	<0.2		ug/L	
		Dissolved Zinc (Zn)	2012/03/14	0.2, RDL=0.1		ug/L	
	Dissolved Zirconium (Zr)	2012/03/14	<0.1		ug/L		
	RPD	Dissolved Aluminum (Al)	2012/03/14	2.7		%	20
		Dissolved Antimony (Sb)	2012/03/14	0.2		%	20
		Dissolved Arsenic (As)	2012/03/14	0.4		%	20
		Dissolved Barium (Ba)	2012/03/14	5.3		%	20
		Dissolved Beryllium (Be)	2012/03/14	NC		%	20
		Dissolved Bismuth (Bi)	2012/03/14	NC		%	20
		Dissolved Boron (B)	2012/03/14	NC		%	20
		Dissolved Cadmium (Cd)	2012/03/14	NC		%	20
		Dissolved Chromium (Cr)	2012/03/14	NC		%	20
		Dissolved Cobalt (Co)	2012/03/14	NC		%	20
		Dissolved Copper (Cu)	2012/03/14	NC		%	20
		Dissolved Iron (Fe)	2012/03/14	12.0		%	20
		Dissolved Lead (Pb)	2012/03/14	9.3		%	20
		Dissolved Lithium (Li)	2012/03/14	NC		%	20
		Dissolved Manganese (Mn)	2012/03/14	0.5		%	20
		Dissolved Molybdenum (Mo)	2012/03/14	2.8		%	20
		Dissolved Nickel (Ni)	2012/03/14	NC		%	20
		Dissolved Selenium (Se)	2012/03/14	NC		%	20
		Dissolved Silicon (Si)	2012/03/14	11.8		%	20
		Dissolved Silver (Ag)	2012/03/14	NC		%	20
	Dissolved Strontium (Sr)	2012/03/14	1.5		%	20	
	Dissolved Thallium (Tl)	2012/03/14	NC		%	20	
	Dissolved Tin (Sn)	2012/03/14	NC		%	20	
	Dissolved Titanium (Ti)	2012/03/14	NC		%	20	
	Dissolved Uranium (U)	2012/03/14	0.2		%	20	



DENISON ENVIRONMENTAL SERVICES  
 Attention: KEVIN RAMSAY  
 Client Project #: MARCH 7 & 8 2012  
 P.O. #:  
 Site Location: FARO MINE COMPLEX

## Quality Assurance Report (Continued)

Maxxam Job Number: VB220130

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5671837 AA1	RPD	Dissolved Vanadium (V)	2012/03/14	NC		%	20
		Dissolved Zinc (Zn)	2012/03/14	NC		%	20
		Dissolved Zirconium (Zr)	2012/03/14	NC		%	20
5672884 BB3	Matrix Spike	Dissolved Chloride (Cl)	2012/03/12		94	%	80 - 120
	Spiked Blank	Dissolved Chloride (Cl)	2012/03/12		104	%	80 - 120
	Method Blank	Dissolved Chloride (Cl)	2012/03/12	<0.5		mg/L	
	RPD [CX4509-02]	Dissolved Chloride (Cl)	2012/03/12	NC		%	20
5672891 BB3	Matrix Spike	Dissolved Sulphate (SO4)	2012/03/12		NC	%	80 - 120
	Spiked Blank	Dissolved Sulphate (SO4)	2012/03/12		102	%	80 - 120
	Method Blank	Dissolved Sulphate (SO4)	2012/03/12	<0.50		mg/L	
	RPD [CX4509-02]	Dissolved Sulphate (SO4)	2012/03/12	1.1		%	20
5674790 TM8	Spiked Blank	Total Suspended Solids	2012/03/14		103	%	80 - 120
	Method Blank	Total Suspended Solids	2012/03/14	<1.0		mg/L	
5674804 BB3	Matrix Spike	Dissolved Sulphate (SO4)	2012/03/13		NC	%	80 - 120
	Spiked Blank	Dissolved Sulphate (SO4)	2012/03/13		104	%	80 - 120
	Method Blank	Dissolved Sulphate (SO4)	2012/03/13	<0.50		mg/L	
	RPD	Dissolved Sulphate (SO4)	2012/03/13	NC		%	20
5677660 TM8	Matrix Spike	Total Dissolved Solids	2012/03/14		NC	%	80 - 120
	Spiked Blank	Total Dissolved Solids	2012/03/14		96	%	80 - 120
	Method Blank	Total Dissolved Solids	2012/03/14	<10		mg/L	
	RPD	Total Dissolved Solids	2012/03/14	2.9		%	20
5684118 EL2	Matrix Spike	Dissolved Mercury (Hg)	2012/03/16		100	%	80 - 120
	Spiked Blank	Dissolved Mercury (Hg)	2012/03/16		99	%	80 - 120
	Method Blank	Dissolved Mercury (Hg)	2012/03/16	<0.010		ug/L	
	RPD	Dissolved Mercury (Hg)	2012/03/16	NC		%	20

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 ) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

**Validation Signature Page**

**Maxxam Job #: B220130**

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



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ROB REINERT, Data Validation Coordinator

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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.

