

## **Appendix H**

### **Quarter of Record Land Application Disposals**



# Land Application Monitoring Form

Land Application start date: 9/1/12 Land Application end date: 10/9/12

Date	Start Time	End Time	Concentration	Flow Rate (gpm)	Volume (gallons)	Notes	
9/1/12	12:00	8,618,045	SLB	7.72 ft	NC	NO	LAD Shutdown - low water levels @ 911,705
9/7/12	12:00	8,787,600	Tess S.	6.80 ft	NO	NO	LAD Restart @ 10:45 (9/6/12) 2,081,260 gal disposed
9/8/12	3:00 pm	8,816,400	Tess S.	7.03 ft	NO	NO	2,110,060 gallons
9/9/12	11:00	8,836,700	Tess	7.22 ft	NO	NO	2,130,360
9/12/12	9:45	8,866,600	Tess	7.62 ft	NO	NO	2,160,250 - LAD Turned off (Low H <sub>2</sub> O)
9/17/12	9:00	8,964,400	<del>SLB</del> Tess	7.19 ft	NO	NO	2,258,060 - LAD Restart (9/16/12)
9/18/12	4:30	9,021,622	SLB	7.16 ft	NO	NO	2,315,292
9/20/12	11:30	9,214,600	SLB	6.83 ft	NO	NO	2,508,260
9/21/12	12:30	9,377,267	SLB	7.72 ft	NO	NO	2,670,927
9/24/12	2:00	"	SLB	6.86 ft	NO	NO	LAD Restart
9/25/12	6:00 pm	9,454,800	SLB	7.05 ft	NO	NO	LAD Shut-off
9/4/12	11:00	"	TLB	6.44 ft	NO	NO	LAD Restart
10/5/12	11:50	9,548,000	TLB	6.44 ft	NO	NO	2,830,260
10/6/12	4:30	9,658,800	TLB	7.04 ft	NO	NO	2,952,460
10/9/12	3:15	9,769,300	TLB	7.91'	NO	NO	2,988,960
10/8/12	9:15	9,762,900	TLB	6.73	NO	NO	3,055,960
10/9/12	5:15	9,864,500	TLB	7.49	NO	NO	3,158,160 (LAD turned off - pulled cap/Flow meter

Flow rate determined by reference to the performance graph.  
 The flow rate of dissolved oxygen is either constant, subject pending power to flow and/or 2500 gpm.

Analyte	Units	Waste-Water Discharge Limits (1)	Past TSF	Past TSF	TSF-1	TSF-2	TSF-1	FTDS 1	FTDS 2	TSF-1	TSF-2	TSF-1	TSF-2
			10/23/1998	09/09/1999	5/25/2011	5/25/2011	03/07/2012	05/09/2012	05/09/2012	05/09/2012	05/09/2012	08/12/2012	08/12/2012
			Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
Mercury	ng/L	14,000	0.000306	0	14.9	15.9	996	347	366	490	339	38.6	37.6
Aluminum	ug/L	100	N/A	N/A	42.1	39.2	13.2 J	86.2	136	25.5	117	54.2	46.3
Antimony	ug/L	6	0.01	0.016	1.24	1.21	4.67	3.72	3.75	2.99	3.49	2.55	2.65
Arsenic	ug/L	210	0.0176	0.15	5.41	5.58	17.2	6.59	6.29	6.88	8.6	13.7	13.6
Cadmium	ug/L	1	N/A		0.300 U	0.300 U	0.300 U	0.300 U	0.300 U	0.300 U	0.300 U	0.500 U	0.500 U
Chromium	ug/L	120	N/A		1.11 J	1.00 J	1.24 U	1.24 U	1.24 U	1.24 U	1.24 U	2.00 U	2.00 U
Copper	ug/L	700	0.052	0.036	70.9	65.4	41.9	41.3	41.6	32.2	30.9	50.7	41.1
Lead	ug/L	9	0.01	0.018	1.44	1.28	2.64	1.08	1.02	0.955	6.19	0.863	0.900 U
Nickel	ug/L	50	N/A		1.24 J	1.15 J	2.32	2.64	2.61	1.54 J	1.33 J	2.00 U	2.00 U
Selenium	ug/L	5	0.0025	0	3.00 U	3.00 U	1.66 J	2.05 J	1.81 J	3.00 U	3.00 U	5.00 U	5.00 U
Silver	ug/L	580	N/A	0	0.620 U	0.620 U	0.460 J	0.620 U	0.620 U	0.620 U	0.620 U	1.00 U	1.00 U
Zinc	ug/L	330	3.33		3.88 J	3.87 J	5.31	15.4	14.9	6	27.4	10.6	11.5
pH	stanard units	6.5-8.5	N/A	9.3	8	8	7.8	7.6	7.7	7.8	7.8	8.61	8.61
Nitrite and Nitrate as N	mg/L	10	16.6	11	0.596	0.49	48.82	34.71	38.15	28.68	14.34	6.12	6.08
Weak Acid Dissociable CN	mg/L	0.2	N/A	N/A	0.0016 J	0.0018 J	0.0032 J	0.00300 U	0.00300 U	0.00300 U	0.00300 U	0.0050 U	0.0050 U
Notes: (1) = Waste water Discharge Limits from TSF (from Permit 2012 - DB 0001 part 1.2.4.3) J = Quantification is an estimate U = Indicates the analyte was analyzed for but not detected TSF = Tailings Storage Facility FTDS = Filtered Tailings Disposal Site Stormwater Retention Pond Water (Mixed stormwater and imported TSF water)													

Analyte	Units	Past (TSF)	Past (TSF)	Past (TSF)	Incidental (TSF)	FTDS	FTDS	TSF	TSF #1	TSF #2	TSF	Total Loading
		10/23/1998	09/09/1999	5/25/2011	03/07/2012	05/09/2012	05/09/2012	05/09/2012	08/12/2012	08/12/2012	10/09/2012	
Mercury	kg/acre	0.002206158	0	7.37123E-06	0.000119379	0.00122	0.00138	0.002466	4.05707E-05	0.000220351	2.57733E-05	0.007398909
Aluminum	kg/acre	N/A	N/A	0.019457167	0.00158213	0.381349676	0.4331569	0.424388394	0.053508545	0.29061987	3.39923E-05	1.259934306
Antimony	kg/acre	0.07209668	0.087367893	0.000586348	0.000559738	0.012820351	0.014562	0.019298504	0.002768601	0.015037048	1.75881E-06	0.207291541
Arsenic	kg/acre	0.126890157	0.819074	0.002630188	0.002061563	0.022105238	0.0251083	0.046101981	0.014535157	0.078944502	9.23373E-06	1.043971414
Cadmium	kg/acre	N/A	N/A	0	0	0	0	0	0	0	0	0
Chromium	kg/acre	N/A	N/A	0.000504977	0	0	0	0	0	0	0	0.000504977
Copper	kg/acre	0.374902736	0.19657776	0.032620072	0.005022064	0.142276724	0.1616054	0.187922159	0.048876462	0.265461732	3.10497E-05	1.100926873
Lead	kg/acre	0.07209668	0.09828888	0.000650965	0.000316426	0.003604115	0.0040937	0.021278983	0	0	0	0.200329792
Nickel	kg/acre	N/A	N/A	0.000571988	0.000278071	0.009010287	0.0102344	0.008547331	0	0	0	0.028642034
Selenium	kg/acre	0.01802417	0	0	0.000198965	0.006624706	0.0075247	0	0	0	0	0.03237253
Silver	kg/acre	N/A	N/A	0	5.51348E-05	0	0	0	0	0	0	5.51348E-05
Zinc	kg/acre	24.00819444	0	0.001854773	0.000636448	0.052002229	0.0590669	0.099470683	0.011766556	0.063907454	7.47492E-06	24.22122543
pH		N/A	9.3	8	7.8	7.65	7.65	7.8	8.61	8.61	8.61	8.116
Nitrite and Nitrate as N	kg/acre	119.6804888	60.06542667	0.259907547	5.851483833	125.0456228	142.03337	128.1206225	6.495564667	35.279228	4.12643E-06	581.0569211
Weak Acid Dissociable CN	kg/acre	N/A	N/A	0.000813707	0.000383547	0	0	0	0	0	0	0.001197254

Notes:

N/A = Analyte was not tested for  
0 = Analyte was tested for and not detected  
pH = mean for all events  
3.785  
liters/gallon

Analyte	Units	Potential Regulatory Criteria	TSF-1		TSF-2	
			08/12/2012		08/12/2012	
			Dissolved	Total	Dissolved	Total
<b>Major Ion Chemistry</b>						
pH (lab)	pH units	6.5-8.5		8.1		8.2
pH (field)	pH units	6.5-8.5		8.61		8.61
Temperature (field)	Degrees C			17.12		17.12
Conductivity (lab)	umhos/cm			357		358
Conductivity (field)	umhos/cm			3		3
Total Suspended Solids	mg/L			3.96		3.71
Total Dissolved Solids	mg/L			203		193
Turbidity	NTU			6.79		6.77
Hardness	mg/L					
Total Settleable Solids (field)	mg/L					
Total Settleable Solids (lab)	mg/L	500		0.100 U		0.100 U
Alkalinity	mg/L	min. of 20		65.0		65.4
HCO3 Alkalinity	mg/L			65.0		65.4
CO3 Alkalinity	mg/L			10.0 U		10.0 U
OH Alkalinity	mg/L			10.0 U		10.0 U
Calcium	mg/L		26.4	27	26.4	26.3
Iron	mg/L	1000	.250 U	.250 U	.250 U	.250 U
Magnesium	mg/L		18.8	18.8	18.8	18
Potassium	ug/L		6820	7010	6880	6810
<b>Minor Ion Chemistry</b>						
Chloride	mg/L	chloride and sulfate cannot exceed 250		4.04		4.03
Fluoride	mg/L	1		0.244		0.241
Sulfate	mg/L	chloride and sulfate cannot exceed 250		73.2		73.1
Nitrate-N	mg/L	10				
Nitrite-N	mg/L	1				
Total Nitrate/Nitrite N	mg/L			6.12		6.08
Ammonia-N	mg/L			1.05		1.08
Cyanide	mg/L	0.0052		0.0050 U		0.0050 U
Weak Acid Dissociable CN	mg/L			0.0050 U		0.0050 U
<b>Trace Ion Chemistry</b>						
Aluminum	ug/L	87	20.0 U	54.2	20	46.3

Antimony	ug/L	6	2.58	2.55	2.53	2.65
Arsenic	ug/L	10	10.8	13.7	11.3	13.6
Barium	ug/L	2000	43.4	44.5	43	43.9
Bismuth	ug/L		1.00 U	1.00 U	1.00 U	1.00 U
Cadmium	ug/L	0.13*	0.500 U	0.500 U	0.500 U	0.500 U
Chromium	ug/L	100	2.00 U	2.00 U	2.00 U	2.00 U
Copper	ug/L	4.05*	13.4	50.7	13.4	51.1
Lead	ug/L	0.92*	0.200 U	0.863	0.200 U	0.900 U
Manganese	ug/L	50	19.7	42.6	19.3	41.2
Nickel	ug/L	22.82*	2.00 U	2.00 U	2.00 U	2.00 U
Phosphorous	ug/L		200 U	200 U	200 U	200 U
Selenium	ug/L	5.00*	5.00 U	5.00 U	5.00 U	5.00 U
Silicon	ug/L		1150	1530	1170	1470
Silver	ug/L	0.87*	1.00 U	1.00 U	1.00 U	1.00 U
Sodium	ug/L		8130	8050	8230	7720
Zinc	ug/L	52.36*	5.05	10.6	5.08	11.5
Mercury	ng/L	50		38.6		37.6

\* these numbers are based on the calculated hardness of Ruby Creek (44.85) - the potentially affected water body



**SGS North America Inc.**  
**Alaska Division**  
**Level II Laboratory Data Report**

Project: Quarterly Surface Water  
Client: Mystery Creek Resources, Inc.  
SGS Work Order: 1123670

Released by:

**Contents (Bookmarked in PDF):**

Cover Page  
Case Narrative  
Sample Results Forms  
Quality Control Summary Forms  
Chain of Custody/Sample Receipt Forms  
Attachments (if applicable)





Case Narrative

Client MYSCRKR Mystery Creek Resources, Inc.  
Workorder 1123670 Quarterly Surface Water

Printed Date/Time 8/31/2012 13:54

Sample ID Client Sample ID

Refer to the sample receipt form for information on sample condition.

- 1123670001 PS MC-1**  
4500CN-I - Weak Acid Dissociable Cyanide - Sample duplicate RPD was outside of acceptance limits. Both sample and duplicate concentrations are less than the LOQ.
- 1123670009 PS FTDS-1**  
4500NO3-F - Total Nitrate/Nitrite - MS recovery is outside of QC criteria (biased low). Refer to the LCS for accuracy.
- 1123670013 PS MC2**  
200.8 - Metals (Dissolved) - Re-analysis of unfiltered container confirms sodium result.
- 1106759 \*MS 1123662001MS**  
4500NO3-F - Total Nitrate/Nitrite - MS recovery is outside of QC criteria (biased low). Refer to the LCS for accuracy.
- 1106760 \*MS 1123670009MS**  
4500NO3-F - Total Nitrate/Nitrite - MS recovery is outside of QC criteria (biased low). Refer to the LCS for accuracy.
- 1106761 \*MS 1123688001MS**  
4500NO3-F - Total Nitrate/Nitrite - MS recovery is outside of QC criteria (biased low). Refer to the LCS for accuracy.
- 1106763 \*MS 1123645009(1106748MS)**  
4500NO3-F - Total Nitrate/Nitrite - MS recovery is outside of QC criteria (biased low). Refer to the LCS for accuracy.
- 1106965 \*DUP 1123670001DUP**  
4500CN-I - Weak Acid Dissociable Cyanide - Sample duplicate RPD was outside of acceptance limits. Both sample and duplicate concentrations are less than the LOQ.
- 1107009 \*MS 1123670009MS**  
200.8 - Metals - MS recovery is outside of acceptance criteria for aluminum and sodium. Post-digestion spike was successful.
- 1107011 \*MS 1123670010MS**  
200.8 - Metals - MS recovery is outside of acceptance criteria for aluminum and sodium. Post-digestion spike was successful.
- 1107118 \*MS 1123617003(1107116MS)**  
300.0 - Anions - MS recovery for Sulfate is outside of QC criteria. Refer to LCS for accuracy requirements.
- 1107120 \*MS 1123636003MS**  
300.0 - Anions - MS recovery for Chloride and Sulfate is outside of QC criteria. Refer to LCS for accuracy requirements.
- 1107665 \*MS 1123670011MS**  
200.8 - Metals - MS recovery is outside of acceptance criteria for several analytes. Post-digestion spike was successful.
- 1109468 \*MB MB for HBN 1370972 [MXX/25800]**  
1631E- Mercury was detected in the MB greater than half of the LOQ however less than the LOQ. .

James Sadler  
Mystery Creek Resources  
6400 S. Airpark Place, Ste. 1  
Anchorage, AK 99502

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**Work Order:** 1123670  
Quarterly Surface Water

**Client:** Mystery Creek Resources, Inc.

**Report Date:** August 31, 2012

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Enclosed are the analytical results associated with the above work order. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. If you have any questions regarding this report, or if we can be of any other assistance, please contact your SGS Project Manager at 907-562-2343. All work is provided under SGS general terms and conditions ([http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm)), unless other written agreements have been accepted by both parties.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & UST-005 (CS) for ADEC and 2944.01 for DOD ELAP/ISO 17025 (RCRA methods: 1020A, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035B, 6020, 7470A, 7471B, 8021B, 8082A, 8260B, 8270D, 8270D-SIM, 9040B, 9045C, 9056A, 9060A, AK101 and AK102/103). Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities. The following descriptors or qualifiers may be found in your report:

\* The analyte has exceeded allowable regulatory or control limits.  
! Surrogate out of control limits.  
B Indicates the analyte is found in a blank associated with the sample.  
CCV Continuing Calibration Verification  
CL Control Limit  
D The analyte concentration is the result of a dilution.  
DF Dilution Factor  
DL Detection Limit (i.e., maximum method detection limit)  
E The analyte result is above the calibrated range.  
F Indicates value that is greater than or equal to the DL  
GT Greater Than  
ICV Initial Calibration Verification  
J The quantitation is an estimation.  
JL The analyte was positively identified, but the quantitation is a low estimation.  
LCS(D) Laboratory Control Spike (Duplicate)  
LOD Limit of Detection (i.e., 2xDL)  
LOQ Limit of Quantitation (i.e., reporting or practical quantitation limit)  
LT Less Than  
M A matrix effect was present.  
MB Method Blank  
MS(D) Matrix Spike (Duplicate)  
ND Indicates the analyte is not detected.  
Q QC parameter out of acceptance range.  
R Rejected  
RPD Relative Percent Difference  
U Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.  
All DRO/RRO analyses are integrated per SOP.



## Detectable Results Summary

Print Date: 8/31/2012 1:54 pm

Client Sample ID: **MC-1**

SGS Ref. #: 1123670001

### Metals Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Mercury	2.49	ng/L

### Metals by ICP/MS

Aluminum	50.6	ug/L
Arsenic	55.0	ug/L
Barium	6.48	ug/L
Calcium	8030	ug/L
Copper	1.46	ug/L
Magnesium	1760	ug/L
Manganese	9.29	ug/L
Silicon	5300	ug/L
Sodium	1830	ug/L
Zinc	15.0	ug/L
Potassium	614	ug/L

### Waters Department

Chloride	0.226	mg/L
Total Nitrate/Nitrite-N	0.246	mg/L
Sulfate	2.58	mg/L
Alkalinity	25.2	mg/L
HCO <sub>3</sub> Alkalinity	25.2	mg/L
Total Suspended Solids	2.18	mg/L
Conductivity	64.6	umhos/cm
pH	6.50	pH units
Total Dissolved Solids	39.0	mg/L
Turbidity	0.800	NTU



## Detectable Results Summary

Print Date: 8/31/2012 1:54 pm

Client Sample ID: **MC2**

SGS Ref. #: 1123670002

### Metals Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Mercury	3.31	ng/L

### Metals by ICP/MS

Aluminum	95.7	ug/L
Arsenic	58.6	ug/L
Barium	6.85	ug/L
Calcium	8020	ug/L
Copper	1.84	ug/L
Lead	0.211	ug/L
Magnesium	1810	ug/L
Manganese	9.45	ug/L
Nickel	3.23	ug/L
Silicon	5510	ug/L
Sodium	1880	ug/L
Zinc	7.36	ug/L
Potassium	620	ug/L

### Waters Department

Chloride	0.226	mg/L
Total Nitrate/Nitrite-N	0.339	mg/L
Sulfate	2.67	mg/L
Alkalinity	24.9	mg/L
HCO <sub>3</sub> Alkalinity	24.9	mg/L
Total Suspended Solids	17.4	mg/L
Conductivity	64.6	umhos/cm
pH	6.50	pH units
Total Dissolved Solids	38.0	mg/L
Turbidity	2.44	NTU



## Detectable Results Summary

Print Date: 8/31/2012 1:54 pm

Client Sample ID: **MCA**

SGS Ref. #: 1123670003

### Metals Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Mercury	3.56	ng/L

### Metals by ICP/MS

Aluminum	150	ug/L
Arsenic	62.0	ug/L
Barium	7.52	ug/L
Calcium	7960	ug/L
Copper	2.02	ug/L
Iron	283	ug/L
Lead	0.236	ug/L
Magnesium	1780	ug/L
Manganese	14.2	ug/L
Silicon	5480	ug/L
Sodium	1900	ug/L
Zinc	5.67	ug/L
Potassium	618	ug/L

### Waters Department

Chloride	0.230	mg/L
Total Nitrate/Nitrite-N	0.249	mg/L
Sulfate	2.86	mg/L
Alkalinity	25.0	mg/L
HCO <sub>3</sub> Alkalinity	25.0	mg/L
Total Suspended Solids	25.4	mg/L
Conductivity	64.2	umhos/cm
pH	6.60	pH units
Total Dissolved Solids	35.0	mg/L
Turbidity	2.76	NTU



## Detectable Results Summary

Print Date: 8/31/2012 1:54 pm

Client Sample ID: **RC1**

SGS Ref. #: 1123670004

### Metals Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Mercury	49.6	ng/L

### Metals by ICP/MS

Aluminum	51.9	ug/L
Antimony	1.08	ug/L
Arsenic	16.7	ug/L
Barium	14.9	ug/L
Calcium	9090	ug/L
Copper	139	ug/L
Iron	1480	ug/L
Magnesium	1990	ug/L
Manganese	91.5	ug/L
Silicon	3640	ug/L
Sodium	1300	ug/L
Zinc	5.33	ug/L

### Waters Department

Chloride	0.138	mg/L
Sulfate	0.426	mg/L
Alkalinity	28.5	mg/L
HCO <sub>3</sub> Alkalinity	28.5	mg/L
Total Suspended Solids	1.10	mg/L
Conductivity	66.9	umhos/cm
pH	6.60	pH units
Total Dissolved Solids	52.0	mg/L
Turbidity	4.62	NTU



## Detectable Results Summary

Print Date: 8/31/2012 1:54 pm

Client Sample ID: **RC2**

SGS Ref. #: 1123670005

### Metals Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Mercury	54.8	ng/L

### Metals by ICP/MS

Aluminum	44.9	ug/L
Barium	27.9	ug/L
Calcium	19700	ug/L
Copper	53.9	ug/L
Magnesium	3210	ug/L
Manganese	2.61	ug/L
Silicon	5860	ug/L
Sodium	2940	ug/L
Zinc	7.27	ug/L
Potassium	1100	ug/L

### Waters Department

Chloride	0.250	mg/L
Total Nitrate/Nitrite-N	0.609	mg/L
Sulfate	1.89	mg/L
Alkalinity	64.3	mg/L
HCO <sub>3</sub> Alkalinity	64.3	mg/L
Total Suspended Solids	10.2	mg/L
Conductivity	144	umhos/cm
pH	7.40	pH units
Total Dissolved Solids	80.0	mg/L
Turbidity	2.42	NTU



## Detectable Results Summary

Print Date: 8/31/2012 1:54 pm

Client Sample ID: **Encino**

SGS Ref. #: 1123670006

### Metals Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Mercury	8.84	ng/L

### Metals by ICP/MS

Aluminum	49.8	ug/L
Arsenic	107	ug/L
Calcium	11600	ug/L
Magnesium	2400	ug/L
Manganese	5.80	ug/L
Silicon	5630	ug/L
Sodium	1940	ug/L
Zinc	5.31	ug/L
Potassium	836	ug/L

### Waters Department

Chloride	0.485	mg/L
Total Nitrate/Nitrite-N	1.31	mg/L
Sulfate	2.39	mg/L
Alkalinity	30.9	mg/L
HCO <sub>3</sub> Alkalinity	30.9	mg/L
Total Suspended Solids	37.8	mg/L
Settleable Matter	1.00	ml/L/hr
Conductivity	87.1	umhos/cm
pH	6.80	pH units
Total Dissolved Solids	39.0	mg/L
Turbidity	6.69	NTU





## Detectable Results Summary

Print Date: 8/31/2012 1:54 pm

Client Sample ID: **TSF-1**

SGS Ref. #: 1123670007

### Metals Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Mercury	38.6	ng/L

### Metals by ICP/MS

Aluminum	54.2	ug/L
Antimony	2.55	ug/L
Arsenic	13.7	ug/L
Barium	44.5	ug/L
Calcium	27000	ug/L
Copper	50.7	ug/L
Lead	0.863	ug/L
Magnesium	18800	ug/L
Manganese	42.6	ug/L
Silicon	1530	ug/L
Sodium	8050	ug/L
Zinc	10.6	ug/L
Potassium	7010	ug/L

### Waters Department

Chloride	4.04	mg/L
Fluoride	0.244	mg/L
Total Nitrate/Nitrite-N	6.12	mg/L
Sulfate	73.2	mg/L
Alkalinity	65.0	mg/L
HCO <sub>3</sub> Alkalinity	65.0	mg/L
Total Suspended Solids	3.96	mg/L
Ammonia-N	1.05	mg/L
Conductivity	357	umhos/cm
pH	8.10	pH units
Total Dissolved Solids	203	mg/L
Turbidity	6.79	NTU



## Detectable Results Summary

Print Date: 8/31/2012 1:54 pm

Client Sample ID: **TSF-2**

SGS Ref. #: 1123670008

### Metals Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Mercury	37.6	ng/L

### Metals by ICP/MS

Aluminum	46.3	ug/L
Antimony	2.65	ug/L
Arsenic	13.6	ug/L
Barium	43.9	ug/L
Calcium	26300	ug/L
Copper	51.1	ug/L
Lead	0.900	ug/L
Magnesium	18000	ug/L
Manganese	41.2	ug/L
Silicon	1470	ug/L
Sodium	7720	ug/L
Zinc	11.5	ug/L
Potassium	6810	ug/L

### Waters Department

Chloride	4.03	mg/L
Fluoride	0.241	mg/L
Total Nitrate/Nitrite-N	6.08	mg/L
Sulfate	73.1	mg/L
Alkalinity	65.4	mg/L
HCO <sub>3</sub> Alkalinity	65.4	mg/L
Total Suspended Solids	3.71	mg/L
Ammonia-N	1.08	mg/L
Conductivity	358	umhos/cm
pH	8.20	pH units
Total Dissolved Solids	193	mg/L
Turbidity	6.77	NTU



## Detectable Results Summary

Print Date: 8/31/2012 1:54 pm

Client Sample ID: **FTDS-1**

SGS Ref. #: 1123670009

### Metals Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Mercury	411	ng/L

### Metals by ICP/MS

Aluminum	859	ug/L
Antimony	1.77	ug/L
Arsenic	12.6	ug/L
Barium	47.0	ug/L
Calcium	44700	ug/L
Copper	152	ug/L
Iron	1010	ug/L
Lead	3.18	ug/L
Magnesium	14500	ug/L
Manganese	60.4	ug/L
Nickel	2.25	ug/L
Silicon	1620	ug/L
Silver	1.76	ug/L
Sodium	240000	ug/L
Zinc	23.7	ug/L
Potassium	4640	ug/L

### Waters Department

Chloride	2.41	mg/L
Total Nitrate/Nitrite-N	9.29	mg/L
Sulfate	556	mg/L
Alkalinity	51.2	mg/L
HCO <sub>3</sub> Alkalinity	51.2	mg/L
Total Suspended Solids	19.2	mg/L
Ammonia-N	6.83	mg/L
Conductivity	1430	umhos/cm
Cyanide	0.094	mg/L
Weak Acid Dissociable CN	0.038	mg/L
pH	8.30	pH units
Total Dissolved Solids	981	mg/L
Turbidity	34.8	NTU



## Detectable Results Summary

Print Date: 8/31/2012 1:54 pm

Client Sample ID: **FTDS-2**

SGS Ref. #: 1123670010

### Metals Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Mercury	439	ng/L

### Metals by ICP/MS

Aluminum	880	ug/L
Antimony	1.86	ug/L
Arsenic	12.7	ug/L
Barium	44.7	ug/L
Calcium	43800	ug/L
Copper	144	ug/L
Iron	1100	ug/L
Lead	3.21	ug/L
Magnesium	14300	ug/L
Manganese	58.5	ug/L
Nickel	2.28	ug/L
Silicon	1870	ug/L
Silver	1.91	ug/L
Sodium	226000	ug/L
Zinc	21.7	ug/L
Potassium	4620	ug/L

### Waters Department

Chloride	2.42	mg/L
Total Nitrate/Nitrite-N	9.14	mg/L
Sulfate	565	mg/L
Alkalinity	50.5	mg/L
HCO <sub>3</sub> Alkalinity	50.5	mg/L
Total Suspended Solids	18.5	mg/L
Ammonia-N	6.99	mg/L
Conductivity	1430	umhos/cm
Cyanide	0.14	mg/L
Weak Acid Dissociable CN	0.036	mg/L
pH	8.30	pH units
Total Dissolved Solids	983	mg/L
Turbidity	32.9	NTU



## Detectable Results Summary

Print Date: 8/31/2012 1:54 pm

Client Sample ID: **Process Water**

SGS Ref. #: 1123670011

### Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Antimony	15.6	ug/L
Arsenic	124	ug/L
Barium	105	ug/L
Calcium	586000	ug/L
Magnesium	15100	ug/L
Nickel	867	ug/L
Phosphorus	1900	ug/L
Potassium	57400	ug/L
Selenium	43.4	ug/L
Silicon	3610	ug/L
Silver	132	ug/L
Zinc	30.0	ug/L
Sodium	5260000	ug/L
Copper	370000	ug/L

Client Sample ID: **MC-1**

SGS Ref. #: 1123670012

### Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aluminum	34.0	ug/L
Arsenic	52.5	ug/L
Barium	6.08	ug/L
Calcium	7920	ug/L
Magnesium	1810	ug/L
Manganese	8.01	ug/L
Potassium	614	ug/L
Silicon	5210	ug/L
Sodium	1900	ug/L
Copper	1.11	ug/L

Client Sample ID: **MC2**

SGS Ref. #: 1123670013

### Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aluminum	34.3	ug/L
Arsenic	55.3	ug/L
Barium	5.88	ug/L
Calcium	8080	ug/L
Magnesium	1860	ug/L
Manganese	4.44	ug/L
Potassium	639	ug/L
Silicon	5370	ug/L
Sodium	5120	ug/L
Copper	1.31	ug/L



## Detectable Results Summary

Print Date: 8/31/2012 1:54 pm

Client Sample ID: **MCA**

SGS Ref. #: 1123670014

### Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aluminum	29.0	ug/L
Arsenic	53.3	ug/L
Barium	5.93	ug/L
Calcium	8020	ug/L
Magnesium	1850	ug/L
Manganese	4.01	ug/L
Potassium	624	ug/L
Silicon	5310	ug/L
Zinc	7.71	ug/L
Sodium	1960	ug/L
Copper	1.55	ug/L

Client Sample ID: **RC1**

SGS Ref. #: 1123670015

### Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aluminum	48.9	ug/L
Antimony	1.24	ug/L
Arsenic	15.2	ug/L
Barium	14.8	ug/L
Calcium	9710	ug/L
Iron	1300	ug/L
Magnesium	2250	ug/L
Manganese	86.8	ug/L
Silicon	3780	ug/L
Zinc	6.19	ug/L
Sodium	1510	ug/L
Copper	140	ug/L

Client Sample ID: **RC2**

SGS Ref. #: 1123670016

### Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aluminum	20.1	ug/L
Barium	28.0	ug/L
Calcium	20900	ug/L
Magnesium	3460	ug/L
Potassium	1170	ug/L
Silicon	6120	ug/L
Zinc	5.05	ug/L
Sodium	3250	ug/L
Copper	23.8	ug/L



## Detectable Results Summary

Print Date: 8/31/2012 1:54 pm

Client Sample ID: **Encino**

SGS Ref. #: 1123670017

### Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Arsenic	100	ug/L
Calcium	11100	ug/L
Magnesium	2320	ug/L
Potassium	790	ug/L
Silicon	5070	ug/L
Sodium	1910	ug/L

Client Sample ID: **TSF-1**

SGS Ref. #: 1123670018

### Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Antimony	2.58	ug/L
Arsenic	10.8	ug/L
Barium	43.4	ug/L
Calcium	26400	ug/L
Magnesium	18800	ug/L
Manganese	19.7	ug/L
Potassium	6820	ug/L
Silicon	1150	ug/L
Zinc	5.05	ug/L
Sodium	8130	ug/L
Copper	13.4	ug/L

Client Sample ID: **TSF-2**

SGS Ref. #: 1123670019

### Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Antimony	2.53	ug/L
Arsenic	11.3	ug/L
Barium	43.0	ug/L
Calcium	26400	ug/L
Magnesium	18800	ug/L
Manganese	19.3	ug/L
Potassium	6880	ug/L
Silicon	1170	ug/L
Zinc	5.08	ug/L
Sodium	8230	ug/L
Copper	13.4	ug/L



## Detectable Results Summary

Print Date: 8/31/2012 1:54 pm

Client Sample ID: **FTDS-1**

SGS Ref. #: 1123670020

### Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aluminum	173	ug/L
Barium	42.3	ug/L
Calcium	45900	ug/L
Magnesium	14300	ug/L
Manganese	4.09	ug/L
Potassium	4730	ug/L
Silicon	594	ug/L
Silver	1.23	ug/L
Sodium	248000	ug/L
Copper	63.8	ug/L

Client Sample ID: **FTDS-2**

SGS Ref. #: 1123670021

### Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aluminum	154	ug/L
Barium	41.2	ug/L
Calcium	42900	ug/L
Magnesium	13600	ug/L
Manganese	4.11	ug/L
Potassium	4490	ug/L
Silicon	570	ug/L
Silver	1.31	ug/L
Sodium	240000	ug/L
Copper	65.0	ug/L





**SGS Ref.#** 1123670001  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** MC-1  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 8:15  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Sample Remarks:

4500CN-I - Weak Acid Dissociable Cyanide - Sample duplicate RPD was outside of acceptance limits. Both sample and duplicate concentrations are less than the LOQ.

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b><u>Metals Department</u></b>									
Mercury	2.49	1.00	ng/L	EPA 1631 E	I		08/14/12	08/24/12	KAN
<b><u>Metals by ICP/MS</u></b>									
Aluminum	50.6	20.0	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Antimony	1.00 U	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Barium	6.48	3.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Bismuth	1.00 U	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Calcium	8030	500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Copper	1.46	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Iron	250 U	250	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Lead	0.200 U	0.200	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Magnesium	1760	50.0	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Manganese	9.29	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Nickel	2.00 U	2.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Phosphorus	200 U	200	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Potassium	614	500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Silicon	5300	200	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Sodium	1830	500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Zinc	15.0	5.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Arsenic	55.0	5.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB



**SGS Ref.#** 1123670001  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** MC-1  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 8:15  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Waters Department</b>									
Alkalinity	25.2	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
Ammonia-N	0.100 U	0.100	mg/L	SM21 4500-NH3 G	C		08/21/12	08/21/12	ACF
Chloride	0.226	0.100	mg/L	EPA 300.0	B		08/14/12	08/15/12	SDP
CO3 Alkalinity	10.0 U	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
Conductivity	64.6	1.00	umhos/cm	SM21 2510B	H			08/14/12	SDP
Cyanide	0.0050 U	0.0050	mg/L	SM21 4500-CN C,E	D	(<0.2)	08/15/12	08/15/12	ACF
Fluoride	0.100 U	0.100	mg/L	EPA 300.0	B		08/14/12	08/15/12	SDP
HCO3 Alkalinity	25.2	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
OH Alkalinity	10.0 U	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
pH	6.50	0.100	pH units	SM21 4500-H B	H			08/14/12	SDP
Settleable Matter	0.100 U	0.100	ml/L/hr	SM21 2540F	G			08/13/12	JSK
Sulfate	2.58	0.100	mg/L	EPA 300.0	B	(<250)	08/14/12	08/15/12	SDP
Total Dissolved Solids	39.0	10.0	mg/L	SM21 2540C	H			08/15/12	JSK
Total Nitrate/Nitrite-N	0.246	0.100	mg/L	SM21 4500NO3-F	A			08/14/12	CMA
Total Suspended Solids	2.18	0.680	mg/L	SM21 2540D	F			08/15/12	JSK
Turbidity	0.800	0.100	NTU	SM21 2130B	H			08/13/12	JSK
Weak Acid Dissociable CN	0.0050 U	0.0050	mg/L	SM21 4500-CN I	D		08/15/12	08/15/12	ACF



**SGS Ref.#** 1123670002  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** MC2  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 7:05  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b><u>Metals Department</u></b>									
Mercury	3.31	1.00	ng/L	EPA 1631 E	I		08/14/12	08/24/12	KAN
<b><u>Metals by ICP/MS</u></b>									
Aluminum	95.7	20.0	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Antimony	1.00 U	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Barium	6.85	3.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Bismuth	1.00 U	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Calcium	8020	500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Copper	1.84	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Iron	250 U	250	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Lead	0.211	0.200	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Magnesium	1810	50.0	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Manganese	9.45	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Nickel	3.23	2.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Phosphorus	200 U	200	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Potassium	620	500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Silicon	5510	200	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Sodium	1880	500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Zinc	7.36	5.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Arsenic	58.6	5.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB

**Waters Department**



**SGS Ref.#** 1123670002  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** MC2  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 7:05  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Waters Department</b>									
Alkalinity	24.9	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
Ammonia-N	0.100 U	0.100	mg/L	SM21 4500-NH3 G	C		08/21/12	08/21/12	ACF
Chloride	0.226	0.100	mg/L	EPA 300.0	B		08/14/12	08/15/12	SDP
CO3 Alkalinity	10.0 U	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
Conductivity	64.6	1.00	umhos/cm	SM21 2510B	H			08/14/12	SDP
Cyanide	0.0050 U	0.0050	mg/L	SM21 4500-CN C,E	D	(<0.2)	08/15/12	08/15/12	ACF
Fluoride	0.100 U	0.100	mg/L	EPA 300.0	B		08/14/12	08/15/12	SDP
HCO3 Alkalinity	24.9	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
OH Alkalinity	10.0 U	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
pH	6.50	0.100	pH units	SM21 4500-H B	H			08/14/12	SDP
Settleable Matter	0.100 U	0.100	ml/L/hr	SM21 2540F	G			08/13/12	JSK
Sulfate	2.67	0.100	mg/L	EPA 300.0	B	(<250)	08/14/12	08/15/12	SDP
Total Dissolved Solids	38.0	10.0	mg/L	SM21 2540C	H			08/15/12	JSK
Total Nitrate/Nitrite-N	0.339	0.100	mg/L	SM21 4500NO3-F	A			08/14/12	CMA
Total Suspended Solids	17.4	0.513	mg/L	SM21 2540D	F			08/15/12	JSK
Turbidity	2.44	0.100	NTU	SM21 2130B	H			08/13/12	JSK
Weak Acid Dissociable CN	0.0050 U	0.0050	mg/L	SM21 4500-CN I	D		08/15/12	08/15/12	ACF



**SGS Ref.#** 1123670003  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** MCA  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 7:30  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b><u>Metals Department</u></b>									
Mercury	3.56	1.00	ng/L	EPA 1631 E	I		08/14/12	08/24/12	KAN
<b><u>Metals by ICP/MS</u></b>									
Aluminum	150	20.0	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Antimony	1.00 U	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Barium	7.52	3.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Bismuth	1.00 U	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Calcium	7960	500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Copper	2.02	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Iron	283	250	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Lead	0.236	0.200	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Magnesium	1780	50.0	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Manganese	14.2	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Nickel	2.00 U	2.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Phosphorus	200 U	200	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Potassium	618	500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Silicon	5480	200	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Sodium	1900	500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Zinc	5.67	5.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Arsenic	62.0	5.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB

**Waters Department**



**SGS Ref.#** 1123670003  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** MCA  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 7:30  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Waters Department</b>									
Alkalinity	25.0	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
Ammonia-N	0.100 U	0.100	mg/L	SM21 4500-NH3 G	C		08/21/12	08/21/12	ACF
Chloride	0.230	0.100	mg/L	EPA 300.0	B		08/14/12	08/15/12	SDP
CO3 Alkalinity	10.0 U	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
Conductivity	64.2	1.00	umhos/cm	SM21 2510B	H			08/14/12	SDP
Cyanide	0.0050 U	0.0050	mg/L	SM21 4500-CN C,E	D	(<0.2)	08/15/12	08/15/12	ACF
Fluoride	0.100 U	0.100	mg/L	EPA 300.0	B		08/14/12	08/15/12	SDP
HCO3 Alkalinity	25.0	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
OH Alkalinity	10.0 U	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
pH	6.60	0.100	pH units	SM21 4500-H B	H			08/14/12	SDP
Settleable Matter	0.100 U	0.100	ml/L/hr	SM21 2540F	G			08/13/12	JSK
Sulfate	2.86	0.100	mg/L	EPA 300.0	B	(<250)	08/14/12	08/15/12	SDP
Total Dissolved Solids	35.0	10.0	mg/L	SM21 2540C	H			08/15/12	JSK
Total Nitrate/Nitrite-N	0.249	0.100	mg/L	SM21 4500NO3-F	A			08/14/12	CMA
Total Suspended Solids	25.4	0.510	mg/L	SM21 2540D	F			08/15/12	JSK
Turbidity	2.76	0.100	NTU	SM21 2130B	H			08/13/12	JSK
Weak Acid Dissociable CN	0.0050 U	0.0050	mg/L	SM21 4500-CN I	D		08/15/12	08/15/12	ACF



**SGS Ref.#** 1123670004  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** RC1  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 12:46  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b><u>Metals Department</u></b>									
Mercury	49.6	10.0	ng/L	EPA 1631 E	I		08/14/12	08/24/12	KAN
<b><u>Metals by ICP/MS</u></b>									
Aluminum	51.9	20.0	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Antimony	1.08	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Barium	14.9	3.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Bismuth	1.00 U	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Calcium	9090	500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Copper	139	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Iron	1480	250	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Lead	0.200 U	0.200	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Magnesium	1990	50.0	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Manganese	91.5	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Nickel	2.00 U	2.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Phosphorus	200 U	200	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Potassium	500 U	500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Silicon	3640	200	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Sodium	1300	500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Zinc	5.33	5.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Arsenic	16.7	5.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB

**Waters Department**



**SGS Ref.#** 1123670004  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** RC1  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 12:46  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Waters Department</b>									
Alkalinity	28.5	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
Ammonia-N	0.100 U	0.100	mg/L	SM21 4500-NH3	G C		08/21/12	08/21/12	ACF
Chloride	0.138	0.100	mg/L	EPA 300.0	B		08/14/12	08/15/12	SDP
CO3 Alkalinity	10.0 U	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
Conductivity	66.9	1.00	umhos/cm	SM21 2510B	H			08/14/12	SDP
Cyanide	0.0050 U	0.0050	mg/L	SM21 4500-CN C,E	D	(<0.2)	08/15/12	08/15/12	ACF
Fluoride	0.100 U	0.100	mg/L	EPA 300.0	B		08/14/12	08/15/12	SDP
HCO3 Alkalinity	28.5	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
OH Alkalinity	10.0 U	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
pH	6.60	0.100	pH units	SM21 4500-H B	H			08/14/12	SDP
Settleable Matter	0.100 U	0.100	ml/L/hr	SM21 2540F	G			08/14/12	JSK
Sulfate	0.426	0.100	mg/L	EPA 300.0	B	(<250)	08/14/12	08/15/12	SDP
Total Dissolved Solids	52.0	10.0	mg/L	SM21 2540C	H			08/15/12	JSK
Total Nitrate/Nitrite-N	0.100 U	0.100	mg/L	SM21 4500NO3-F	A			08/14/12	CMA
Total Suspended Solids	1.10	0.500	mg/L	SM21 2540D	F			08/15/12	JSK
Turbidity	4.62	0.100	NTU	SM21 2130B	H			08/13/12	JSK
Weak Acid Dissociable CN	0.0050 U	0.0050	mg/L	SM21 4500-CN I	D		08/15/12	08/15/12	ACF





**SGS Ref.#** 1123670005  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** RC2  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 12:00  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b><u>Metals Department</u></b>									
Mercury	54.8	10.0	ng/L	EPA 1631 E	I		08/14/12	08/24/12	KAN
<b><u>Metals by ICP/MS</u></b>									
Aluminum	44.9	20.0	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Antimony	1.00 U	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Barium	27.9	3.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Bismuth	1.00 U	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Calcium	19700	500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Copper	53.9	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Iron	250 U	250	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Lead	0.200 U	0.200	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Magnesium	3210	50.0	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Manganese	2.61	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Nickel	2.00 U	2.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Phosphorus	200 U	200	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Potassium	1100	500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Silicon	5860	200	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Sodium	2940	500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Zinc	7.27	5.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Arsenic	5.00 U	5.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB

**Waters Department**



**SGS Ref.#** 1123670005  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** RC2  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 12:00  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Waters Department</b>									
Alkalinity	64.3	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
Ammonia-N	0.100 U	0.100	mg/L	SM21 4500-NH3	G C		08/21/12	08/21/12	ACF
Chloride	0.250	0.100	mg/L	EPA 300.0	B		08/14/12	08/15/12	SDP
CO3 Alkalinity	10.0 U	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
Conductivity	144	1.00	umhos/cm	SM21 2510B	H			08/14/12	SDP
Cyanide	0.0050 U	0.0050	mg/L	SM21 4500-CN C,E	D	(<0.2)	08/15/12	08/15/12	ACF
Fluoride	0.100 U	0.100	mg/L	EPA 300.0	B		08/14/12	08/15/12	SDP
HCO3 Alkalinity	64.3	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
OH Alkalinity	10.0 U	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
pH	7.40	0.100	pH units	SM21 4500-H B	H			08/14/12	SDP
Settleable Matter	0.100 U	0.100	ml/L/hr	SM21 2540F	G			08/14/12	JSK
Sulfate	1.89	0.100	mg/L	EPA 300.0	B	(<250)	08/14/12	08/15/12	SDP
Total Dissolved Solids	80.0	10.0	mg/L	SM21 2540C	H			08/15/12	JSK
Total Nitrate/Nitrite-N	0.609	0.100	mg/L	SM21 4500NO3-F	A			08/14/12	CMA
Total Suspended Solids	10.2	0.549	mg/L	SM21 2540D	F			08/15/12	JSK
Turbidity	2.42	0.100	NTU	SM21 2130B	H			08/13/12	JSK
Weak Acid Dissociable CN	0.0050 U	0.0050	mg/L	SM21 4500-CN I	D		08/15/12	08/15/12	ACF



**SGS Ref.#** 1123670006  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** Encino  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 14:00  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b><u>Metals Department</u></b>									
Mercury	8.84	1.00	ng/L	EPA 1631 E	I		08/14/12	08/24/12	KAN
<b><u>Metals by ICP/MS</u></b>									
Aluminum	49.8	20.0	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Antimony	1.00 U	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Barium	3.00 U	3.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Bismuth	1.00 U	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Calcium	11600	500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Copper	1.00 U	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Iron	250 U	250	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Lead	0.200 U	0.200	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Magnesium	2400	50.0	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Manganese	5.80	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Nickel	2.00 U	2.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Phosphorus	200 U	200	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Potassium	836	500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Silicon	5630	200	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Sodium	1940	500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Zinc	5.31	5.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Arsenic	107	5.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB

**Waters Department**



**SGS Ref.#** 1123670006  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** Encino  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 14:00  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Waters Department</b>									
Alkalinity	30.9	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
Ammonia-N	0.100 U	0.100	mg/L	SM21 4500-NH3 G	C		08/21/12	08/21/12	ACF
Chloride	0.485	0.100	mg/L	EPA 300.0	B		08/14/12	08/15/12	SDP
CO3 Alkalinity	10.0 U	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
Conductivity	87.1	1.00	umhos/cm	SM21 2510B	H			08/14/12	SDP
Cyanide	0.0050 U	0.0050	mg/L	SM21 4500-CN C,E	D	(<0.2)	08/15/12	08/15/12	ACF
Fluoride	0.100 U	0.100	mg/L	EPA 300.0	B		08/14/12	08/15/12	SDP
HCO3 Alkalinity	30.9	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
OH Alkalinity	10.0 U	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
pH	6.80	0.100	pH units	SM21 4500-H B	H			08/14/12	SDP
Settleable Matter	1.00	0.100	ml/L/hr	SM21 2540F	G			08/14/12	JSK
Sulfate	2.39	0.100	mg/L	EPA 300.0	B	(<250)	08/14/12	08/15/12	SDP
Total Dissolved Solids	39.0	10.0	mg/L	SM21 2540C	H			08/16/12	JSK
Total Nitrate/Nitrite-N	1.31	0.100	mg/L	SM21 4500NO3-F	A			08/14/12	CMA
Total Suspended Solids	37.8	0.562	mg/L	SM21 2540D	F			08/15/12	JSK
Turbidity	6.69	0.100	NTU	SM21 2130B	H			08/13/12	JSK
Weak Acid Dissociable CN	0.0050 U	0.0050	mg/L	SM21 4500-CN I	D		08/15/12	08/15/12	ACF



**SGS Ref.#** 1123670007  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** TSF-1  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 16:30  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b><u>Metals Department</u></b>									
Mercury	38.6	10.0	ng/L	EPA 1631 E	J		08/14/12	08/24/12	KAN
<b><u>Metals by ICP/MS</u></b>									
Aluminum	54.2	20.0	ug/L	EP200.8	F		08/14/12	08/14/12	NRB
Antimony	2.55	1.00	ug/L	EP200.8	F		08/14/12	08/14/12	NRB
Barium	44.5	3.00	ug/L	EP200.8	F		08/14/12	08/14/12	NRB
Bismuth	1.00 U	1.00	ug/L	EP200.8	F		08/14/12	08/14/12	NRB
Calcium	27000	500	ug/L	EP200.8	F		08/14/12	08/14/12	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	F		08/14/12	08/14/12	NRB
Copper	50.7	1.00	ug/L	EP200.8	F		08/14/12	08/14/12	NRB
Iron	250 U	250	ug/L	EP200.8	F		08/14/12	08/14/12	NRB
Lead	0.863	0.200	ug/L	EP200.8	F		08/14/12	08/14/12	NRB
Magnesium	18800	50.0	ug/L	EP200.8	F		08/14/12	08/14/12	NRB
Manganese	42.6	1.00	ug/L	EP200.8	F		08/14/12	08/14/12	NRB
Nickel	2.00 U	2.00	ug/L	EP200.8	F		08/14/12	08/14/12	NRB
Phosphorus	200 U	200	ug/L	EP200.8	F		08/14/12	08/14/12	NRB
Potassium	7010	500	ug/L	EP200.8	F		08/14/12	08/14/12	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	F		08/14/12	08/14/12	NRB
Silicon	1530	200	ug/L	EP200.8	F		08/14/12	08/14/12	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	F		08/14/12	08/14/12	NRB
Sodium	8050	500	ug/L	EP200.8	F		08/14/12	08/14/12	NRB
Zinc	10.6	5.00	ug/L	EP200.8	F		08/14/12	08/14/12	NRB
Arsenic	13.7	5.00	ug/L	EP200.8	F		08/14/12	08/14/12	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	F		08/14/12	08/14/12	NRB

**Waters Department**



**SGS Ref.#** 1123670007  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** TSF-1  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 16:30  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Waters Department</b>									
Alkalinity	65.0	10.0	mg/L	SM21 2320B	I			08/14/12	SDP
Ammonia-N	1.05	0.100	mg/L	SM21 4500-NH3 G	D		08/21/12	08/21/12	ACF
Chloride	4.04	0.100	mg/L	EPA 300.0	C		08/14/12	08/15/12	SDP
CO3 Alkalinity	10.0 U	10.0	mg/L	SM21 2320B	I			08/14/12	SDP
Conductivity	357	1.00	umhos/cm	SM21 2510B	I			08/14/12	SDP
Cyanide	0.0050 U	0.0050	mg/L	SM21 4500-CN C,E	E	(<0.2)	08/15/12	08/15/12	ACF
Fluoride	0.244	0.100	mg/L	EPA 300.0	C		08/14/12	08/15/12	SDP
HCO3 Alkalinity	65.0	10.0	mg/L	SM21 2320B	I			08/14/12	SDP
OH Alkalinity	10.0 U	10.0	mg/L	SM21 2320B	I			08/14/12	SDP
pH	8.10	0.100	pH units	SM21 4500-H B	I			08/14/12	SDP
Settleable Matter	0.100 U	0.100	ml/L/hr	SM21 2540F	H			08/14/12	JSK
Sulfate	73.2	0.500	mg/L	EPA 300.0	C	(<250)	08/14/12	08/15/12	SDP
Total Dissolved Solids	203	10.0	mg/L	SM21 2540C	I			08/16/12	JSK
Total Nitrate/Nitrite-N	6.12	0.100	mg/L	SM21 4500NO3-F	A			08/14/12	CMA
Total Suspended Solids	3.96	0.521	mg/L	SM21 2540D	G			08/15/12	JSK
Turbidity	6.79	0.100	NTU	SM21 2130B	I			08/13/12	JSK
Weak Acid Dissociable CN	0.0050 U	0.0050	mg/L	SM21 4500-CN I	E		08/15/12	08/15/12	ACF



**SGS Ref.#** 1123670008  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** TSF-2  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 16:30  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b><u>Metals Department</u></b>									
Mercury	37.6	10.0	ng/L	EPA 1631 E	I		08/14/12	08/24/12	KAN
<b><u>Metals by ICP/MS</u></b>									
Aluminum	46.3	20.0	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Antimony	2.65	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Barium	43.9	3.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Bismuth	1.00 U	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	E		08/23/12	08/24/12	NRB
Calcium	26300	500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Copper	51.1	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Iron	250 U	250	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Lead	0.900	0.200	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Magnesium	18000	50.0	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Manganese	41.2	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Nickel	2.00 U	2.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Phosphorus	200 U	200	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Potassium	6810	500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Silicon	1470	200	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Sodium	7720	500	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Zinc	11.5	5.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB
Arsenic	13.6	5.00	ug/L	EP200.8	E		08/14/12	08/14/12	NRB

**Waters Department**



**SGS Ref.#** 1123670008  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** TSF-2  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 16:30  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Waters Department</b>									
Alkalinity	65.4	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
Ammonia-N	1.08	0.100	mg/L	SM21 4500-NH3 G	C		08/21/12	08/21/12	ACF
Chloride	4.03	0.100	mg/L	EPA 300.0	B		08/14/12	08/15/12	SDP
CO3 Alkalinity	10.0 U	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
Conductivity	358	1.00	umhos/cm	SM21 2510B	H			08/14/12	SDP
Cyanide	0.0050 U	0.0050	mg/L	SM21 4500-CN C,E	D	(<0.2)	08/15/12	08/15/12	ACF
Fluoride	0.241	0.100	mg/L	EPA 300.0	B		08/14/12	08/15/12	SDP
HCO3 Alkalinity	65.4	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
OH Alkalinity	10.0 U	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
pH	8.20	0.100	pH units	SM21 4500-H B	H			08/14/12	SDP
Settleable Matter	0.100 U	0.100	ml/L/hr	SM21 2540F	G			08/14/12	JSK
Sulfate	73.1	0.500	mg/L	EPA 300.0	B	(<250)	08/14/12	08/15/12	SDP
Total Dissolved Solids	193	10.0	mg/L	SM21 2540C	H			08/16/12	JSK
Total Nitrate/Nitrite-N	6.08	0.100	mg/L	SM21 4500NO3-F	A			08/14/12	CMA
Total Suspended Solids	3.71	0.714	mg/L	SM21 2540D	F			08/15/12	JSK
Turbidity	6.77	0.100	NTU	SM21 2130B	H			08/13/12	JSK
Weak Acid Dissociable CN	0.0050 U	0.0050	mg/L	SM21 4500-CN I	D		08/15/12	08/15/12	ACF





**SGS Ref.#** 1123670009  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** FTDS-1  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 17:10  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Sample Remarks:

4500NO3-F - Total Nitrate/Nitrite - MS recovery is outside of QC criteria (biased low). Refer to the LCS for accuracy.

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b><u>Metals Department</u></b>									
Mercury	411	50.0	ng/L	EPA 1631 E	I		08/14/12	08/24/12	KAN
<b><u>Metals by ICP/MS</u></b>									
Aluminum	859	200	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Antimony	1.77	1.00	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Barium	47.0	3.00	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Bismuth	1.00 U	1.00	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Calcium	44700	500	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Copper	152	1.00	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Iron	1010	250	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Lead	3.18	0.200	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Magnesium	14500	50.0	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Manganese	60.4	1.00	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Nickel	2.25	2.00	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Phosphorus	200 U	200	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Potassium	4640	500	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Silicon	1620	200	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Silver	1.76	1.00	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Sodium	240000	5000	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Zinc	23.7	5.00	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Arsenic	12.6	5.00	ug/L	EP200.8	E		08/15/12	08/16/12	NRB

**Waters Department**



**SGS Ref.#** 1123670009  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** FTDS-1  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 17:10  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Waters Department</b>									
Alkalinity	51.2	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
Ammonia-N	6.83	1.00	mg/L	SM21 4500-NH3 G	C		08/21/12	08/21/12	ACF
Chloride	2.41	0.200	mg/L	EPA 300.0	B		08/14/12	08/15/12	SDP
CO3 Alkalinity	10.0 U	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
Conductivity	1430	1.00	umhos/cm	SM21 2510B	H			08/14/12	SDP
Cyanide	0.094	0.0050	mg/L	SM21 4500-CN C,E	D	(<0.2)	08/15/12	08/15/12	ACF
Fluoride	0.200 U	0.200	mg/L	EPA 300.0	B		08/14/12	08/15/12	SDP
HCO3 Alkalinity	51.2	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
OH Alkalinity	10.0 U	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
pH	8.30	0.100	pH units	SM21 4500-H B	H			08/14/12	SDP
Settleable Matter	0.100 U	0.100	ml/L/hr	SM21 2540F	G			08/14/12	JSK
Sulfate	556	* 2.00	mg/L	EPA 300.0	B	(<250)	08/14/12	08/15/12	SDP
Total Dissolved Solids	981	10.0	mg/L	SM21 2540C	H			08/16/12	JSK
Total Nitrate/Nitrite-N	9.29	0.100	mg/L	SM21 4500NO3-F	A			08/14/12	CMA
Total Suspended Solids	19.2	1.00	mg/L	SM21 2540D	F			08/15/12	JSK
Turbidity	34.8	0.100	NTU	SM21 2130B	H			08/13/12	JSK
Weak Acid Dissociable CN	0.038	0.0050	mg/L	SM21 4500-CN I	D		08/15/12	08/15/12	ACF



**SGS Ref.#** 1123670010  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** FTDS-2  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 17:10  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b><u>Metals Department</u></b>									
Mercury	439	50.0	ng/L	EPA 1631 E	I		08/14/12	08/24/12	KAN
<b><u>Metals by ICP/MS</u></b>									
Aluminum	880	200	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Antimony	1.86	1.00	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Barium	44.7	3.00	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Bismuth	1.00 U	1.00	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Calcium	43800	500	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Copper	144	1.00	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Iron	1100	250	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Lead	3.21	0.200	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Magnesium	14300	50.0	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Manganese	58.5	1.00	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Nickel	2.28	2.00	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Phosphorus	200 U	200	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Potassium	4620	500	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Silicon	1870	200	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Silver	1.91	1.00	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Sodium	226000	5000	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Zinc	21.7	5.00	ug/L	EP200.8	E		08/15/12	08/16/12	NRB
Arsenic	12.7	5.00	ug/L	EP200.8	E		08/15/12	08/16/12	NRB

**Waters Department**



**SGS Ref.#** 1123670010  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** FTDS-2  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 17:10  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Waters Department</b>									
Alkalinity	50.5	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
Ammonia-N	6.99	1.00	mg/L	SM21 4500-NH3 G	C		08/21/12	08/21/12	ACF
Chloride	2.42	0.200	mg/L	EPA 300.0	B		08/14/12	08/15/12	SDP
CO3 Alkalinity	10.0 U	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
Conductivity	1430	1.00	umhos/cm	SM21 2510B	H			08/14/12	SDP
Cyanide	0.14	0.0050	mg/L	SM21 4500-CN C,E	D	(<0.2)	08/15/12	08/15/12	ACF
Fluoride	0.200 U	0.200	mg/L	EPA 300.0	B		08/14/12	08/15/12	SDP
HCO3 Alkalinity	50.5	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
OH Alkalinity	10.0 U	10.0	mg/L	SM21 2320B	H			08/14/12	SDP
pH	8.30	0.100	pH units	SM21 4500-H B	H			08/14/12	SDP
Settleable Matter	0.100 U	0.100	ml/L/hr	SM21 2540F	G			08/14/12	JSK
Sulfate	565	* 2.00	mg/L	EPA 300.0	B	(<250)	08/14/12	08/15/12	SDP
Total Dissolved Solids	983	10.0	mg/L	SM21 2540C	H			08/16/12	JSK
Total Nitrate/Nitrite-N	9.14	0.100	mg/L	SM21 4500NO3-F	A			08/14/12	CMA
Total Suspended Solids	18.5	1.25	mg/L	SM21 2540D	F			08/15/12	JSK
Turbidity	32.9	0.100	NTU	SM21 2130B	H			08/13/12	JSK
Weak Acid Dissociable CN	0.036	0.0050	mg/L	SM21 4500-CN I	D		08/15/12	08/15/12	ACF



**SGS Ref.#** 1123670011  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** Process Water  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/13/2012 6:35  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b><u>Dissolved Metals by ICP/MS</u></b>									
Aluminum	100 U	100	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Antimony	15.6	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Barium	105	15.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Bismuth	5.00 U	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Cadmium	2.50 U	2.50	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Calcium	586000	2500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Chromium	10.0 U	10.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Copper	370000	200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Iron	1250 U	1250	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Lead	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Magnesium	15100	250	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Manganese	5.00 U	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Nickel	867	10.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Phosphorus	1900	1000	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Potassium	57400	2500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Selenium	43.4	25.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Silicon	3610	1000	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Silver	132	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Sodium	5260000	100000	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Zinc	30.0	25.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Arsenic	124	25.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB



**SGS Ref.#** 1123670012  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** MC-1  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 8:15  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b><u>Dissolved Metals by ICP/MS</u></b>									
Aluminum	34.0	20.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Antimony	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Barium	6.08	3.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Bismuth	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Calcium	7920	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Copper	1.11	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Iron	250 U	250	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Lead	0.200 U	0.200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Magnesium	1810	50.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Manganese	8.01	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Nickel	2.00 U	2.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Phosphorus	200 U	200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Potassium	614	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Silicon	5210	200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Sodium	1900	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Zinc	5.00 U	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Arsenic	52.5	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB



**SGS Ref.#** 1123670013  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** MC2  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 7:05  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Sample Remarks:

200.8 - Metals (Dissolved) - Re-analysis of unfiltered container confirms sodium result.

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b><u>Dissolved Metals by ICP/MS</u></b>									
Aluminum	34.3	20.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Antimony	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Barium	5.88	3.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Bismuth	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Calcium	8080	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Copper	1.31	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Iron	250 U	250	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Lead	0.200 U	0.200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Magnesium	1860	50.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Manganese	4.44	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Nickel	2.00 U	2.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Phosphorus	200 U	200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Potassium	639	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Silicon	5370	200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Sodium	5120	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Zinc	5.00 U	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Arsenic	55.3	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB



**SGS Ref.#** 1123670014  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** MCA  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 7:30  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b><u>Dissolved Metals by ICP/MS</u></b>									
Aluminum	29.0	20.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Antimony	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Barium	5.93	3.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Bismuth	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Calcium	8020	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Copper	1.55	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Iron	250 U	250	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Lead	0.200 U	0.200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Magnesium	1850	50.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Manganese	4.01	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Nickel	2.00 U	2.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Phosphorus	200 U	200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Potassium	624	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Silicon	5310	200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Sodium	1960	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Zinc	7.71	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Arsenic	53.3	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB





**SGS Ref.#** 1123670015  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** RC1  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 12:46  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b><u>Dissolved Metals by ICP/MS</u></b>									
Aluminum	48.9	20.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Antimony	1.24	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Barium	14.8	3.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Bismuth	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Calcium	9710	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Copper	140	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Iron	1300	250	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Lead	0.200 U	0.200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Magnesium	2250	50.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Manganese	86.8	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Nickel	2.00 U	2.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Phosphorus	200 U	200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Potassium	500 U	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Silicon	3780	200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Sodium	1510	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Zinc	6.19	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Arsenic	15.2	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB



**SGS Ref.#** 1123670016  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** RC2  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 12:00  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b><u>Dissolved Metals by ICP/MS</u></b>									
Aluminum	20.1	20.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Antimony	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Barium	28.0	3.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Bismuth	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Calcium	20900	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Copper	23.8	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Iron	250 U	250	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Lead	0.200 U	0.200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Magnesium	3460	50.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Manganese	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Nickel	2.00 U	2.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Phosphorus	200 U	200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Potassium	1170	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Silicon	6120	200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Sodium	3250	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Zinc	5.05	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Arsenic	5.00 U	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB



**SGS Ref.#** 1123670017  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** Encino  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 14:00  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b><u>Dissolved Metals by ICP/MS</u></b>									
Aluminum	20.0 U	20.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Antimony	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Barium	3.00 U	3.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Bismuth	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Calcium	11100	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Copper	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Iron	250 U	250	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Lead	0.200 U	0.200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Magnesium	2320	50.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Manganese	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Nickel	2.00 U	2.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Phosphorus	200 U	200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Potassium	790	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Silicon	5070	200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Sodium	1910	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Zinc	5.00 U	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Arsenic	100	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB



**SGS Ref.#** 1123670018  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** TSF-1  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 16:30  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b><u>Dissolved Metals by ICP/MS</u></b>									
Aluminum	20.0 U	20.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Antimony	2.58	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Barium	43.4	3.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Bismuth	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Calcium	26400	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Copper	13.4	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Iron	250 U	250	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Lead	0.200 U	0.200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Magnesium	18800	50.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Manganese	19.7	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Nickel	2.00 U	2.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Phosphorus	200 U	200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Potassium	6820	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Silicon	1150	200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Sodium	8130	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Zinc	5.05	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Arsenic	10.8	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB



**SGS Ref.#** 1123670019  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** TSF-2  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 16:30  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b><u>Dissolved Metals by ICP/MS</u></b>									
Aluminum	20.0 U	20.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Antimony	2.53	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Barium	43.0	3.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Bismuth	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Calcium	26400	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Copper	13.4	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Iron	250 U	250	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Lead	0.200 U	0.200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Magnesium	18800	50.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Manganese	19.3	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Nickel	2.00 U	2.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Phosphorus	200 U	200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Potassium	6880	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Silicon	1170	200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Sodium	8230	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Zinc	5.08	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Arsenic	11.3	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB



**SGS Ref.#** 1123670020  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** FTDS-1  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 17:10  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b><u>Dissolved Metals by ICP/MS</u></b>									
Aluminum	173	20.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Antimony	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Barium	42.3	3.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Bismuth	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Calcium	45900	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Copper	63.8	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Iron	250 U	250	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Lead	0.200 U	0.200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Magnesium	14300	50.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Manganese	4.09	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Nickel	2.00 U	2.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Phosphorus	200 U	200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Potassium	4730	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Silicon	594	200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Silver	1.23	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Sodium	248000	12500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Zinc	5.00 U	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Arsenic	5.00 U	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB



**SGS Ref.#** 1123670021  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Client Sample ID** FTDS-2  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Collected Date/Time** 08/12/2012 17:10  
**Received Date/Time** 08/13/2012 15:19  
**Technical Director** Stephen C. Ede

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b><u>Dissolved Metals by ICP/MS</u></b>									
Aluminum	154	20.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Antimony	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Barium	41.2	3.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Bismuth	1.00 U	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Calcium	42900	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Copper	65.0	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Iron	250 U	250	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Lead	0.200 U	0.200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Magnesium	13600	50.0	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Manganese	4.11	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Nickel	2.00 U	2.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Phosphorus	200 U	200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Potassium	4490	500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Silicon	570	200	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Silver	1.31	1.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Sodium	240000	12500	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Zinc	5.00 U	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB
Arsenic	5.00 U	5.00	ug/L	EP200.8	B		08/17/12	08/19/12	NRB



SGS Ref.# 1123670022  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Client Sample ID Trip Blank  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Collected Date/Time 08/12/2012 7:05  
Received Date/Time 08/13/2012 15:19  
Technical Director Stephen C. Ede

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b><u>Metals Department</u></b>									
Mercury	1.00 U	1.00	ng/L	EPA 1631 E	A		08/14/12	08/24/12	KAN





SGS Ref.# 1106300 Method Blank  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009,  
1123670010

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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**Waters Department**

Turbidity	0.100 U	0.100	0.0500	NTU	08/13/12
Batch	WAT9349				
Method	SM21 2130B				
Instrument	Turbidimeter				



<b>SGS Ref.#</b>	1106446	Method Blank	<b>Printed Date/Time</b>	08/31/2012 13:54
<b>Client Name</b>	Mystery Creek Resources, Inc.		<b>Prep</b>	MXX25759
<b>Project Name/#</b>	Quarterly Surface Water		<b>Batch</b>	E200.2
<b>Matrix</b>	Water (Surface, Eff., Ground)		<b>Method</b>	
			<b>Date</b>	08/14/2012

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
<b>Metals by ICP/MS</b>					
Aluminum	12.4 U	20.0	6.20	ug/L	08/14/12
Antimony	0.620 U	1.00	0.310	ug/L	08/14/12
Arsenic	3.00 U	5.00	1.50	ug/L	08/14/12
Barium	1.88 U	3.00	0.940	ug/L	08/14/12
Bismuth	0.620 U	1.00	0.310	ug/L	08/14/12
Cadmium	0.300 U	0.500	0.150	ug/L	08/14/12
Calcium	300 U	500	150	ug/L	08/14/12
Chromium	1.24 U	2.00	0.620	ug/L	08/14/12
Copper	0.620 U	1.00	0.310	ug/L	08/14/12
Iron	156 U	250	78.0	ug/L	08/14/12
Lead	0.124 U	0.200	0.0620	ug/L	08/14/12
Magnesium	30.0 U	50.0	15.0	ug/L	08/14/12
Manganese	0.620 U	1.00	0.310	ug/L	08/14/12
Nickel	1.24 U	2.00	0.620	ug/L	08/14/12
Phosphorus	124 U	200	62.0	ug/L	08/14/12
Potassium	300 U	500	150	ug/L	08/14/12
Selenium	3.00 U	5.00	1.50	ug/L	08/14/12
Silicon	124 U	200	62.0	ug/L	08/14/12
Silver	0.620 U	1.00	0.310	ug/L	08/14/12
Sodium	300 U	500	150	ug/L	08/14/12
Zinc	5.00 U	5.00	2.50	ug/L	08/14/12

**Batch** MMS7613  
**Method** EP200.8  
**Instrument** Perkin Elmer Sciex ICP-MS P3



SGS Ref.# 1106581 Method Blank  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

QC results affect the following production samples:  
1123670001, 1123670002, 1123670003

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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**Waters Department**

Settleable Matter	0.100 U	0.100	0.100	ml/L/hr	08/13/12
Batch	MSM1791				
Method	SM21 2540F				
Instrument					



SGS Ref.# 1106582 Method Blank  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

QC results affect the following production samples:

1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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**Waters Department**

Settleable Matter	0.100 U	0.100	0.100	ml/L/hr	08/14/12
Batch	MSM1792				
Method	SM21 2540F				
Instrument					



SGS Ref.# 1106710 Method Blank  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009,  
1123670010

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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**Waters Department**

Conductivity	0.954 U	1.00	0.477	umhos/cm	08/14/12
Batch	WAT9350				
Method	SM21 2510B				
Instrument	Titration				



SGS Ref.# 1106715 Method Blank  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009,  
1123670010

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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**Waters Department**

Alkalinity	6.20 U	10.0	3.10	mg/L	08/14/12
Batch	WTI3725				
Method	SM21 2320B				
Instrument	Titration				



SGS Ref.# 1106903 Method Blank  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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Waters Department

Total Dissolved Solids	6.20 U	10.0	3.10	mg/L	08/15/12
Batch	WAT9351				
Method	SM21 2540C				
Instrument					



SGS Ref.# 1106908 Method Blank  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009,  
1123670010

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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**Waters Department**

Total Suspended Solids	0.300 U	0.500	0.150	mg/L	08/15/12
Batch	STS3858				
Method	SM21 2540D				
Instrument					





SGS Ref.# 1106950 Method Blank  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

QC results affect the following production samples:

1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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Waters Department

Total Dissolved Solids	6.20 U	10.0	3.10	mg/L	08/16/12
Batch	WAT9352				
Method	SM21 2540C				
Instrument					



SGS Ref.# 1106955 Method Blank  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch WXX9313  
Method EXT/CN4500  
Date 08/15/2012

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009,  
1123670010

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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**Waters Department**

Cyanide	0.00300 U	0.0050	0.0015	mg/L	08/15/12
Batch	WDA2604				
Method	SM21 4500-CN C,E				
Instrument	Konelab				



SGS Ref.# 1106962 Method Blank  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch WXX9314  
Method EXT/WAD1  
Date 08/15/2012

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009,  
1123670010

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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**Waters Department**

Weak Acid Dissociable CN	0.00300 U	0.0050	0.0015	mg/L	08/15/12
Batch	WDA2605				
Method	SM21 4500-CN I				
Instrument	Konelab				



**SGS Ref.#** 1107007 Method Blank  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Prep Batch** MXX25767  
**Method** E200.2  
**Date** 08/15/2012

QC results affect the following production samples:  
 1123670009, 1123670010

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
<b><u>Metals by ICP/MS</u></b>					
Aluminum	8.15J	20.0	6.20	ug/L	08/16/12
Antimony	0.620 U	1.00	0.310	ug/L	08/16/12
Arsenic	3.00 U	5.00	1.50	ug/L	08/16/12
Barium	1.88 U	3.00	0.940	ug/L	08/16/12
Bismuth	0.620 U	1.00	0.310	ug/L	08/16/12
Cadmium	0.300 U	0.500	0.150	ug/L	08/16/12
Calcium	300 U	500	150	ug/L	08/16/12
Chromium	1.24 U	2.00	0.620	ug/L	08/16/12
Copper	0.620 U	1.00	0.310	ug/L	08/16/12
Iron	156 U	250	78.0	ug/L	08/16/12
Lead	0.124 U	0.200	0.0620	ug/L	08/16/12
Magnesium	30.0 U	50.0	15.0	ug/L	08/16/12
Manganese	0.620 U	1.00	0.310	ug/L	08/16/12
Nickel	1.24 U	2.00	0.620	ug/L	08/16/12
Phosphorus	124 U	200	62.0	ug/L	08/16/12
Potassium	300 U	500	150	ug/L	08/16/12
Selenium	3.00 U	5.00	1.50	ug/L	08/16/12
Silicon	124 U	200	62.0	ug/L	08/16/12
Silver	0.620 U	1.00	0.310	ug/L	08/16/12
Sodium	300 U	500	150	ug/L	08/16/12
Zinc	5.00 U	5.00	2.50	ug/L	08/16/12
<b>Batch</b>	MMS7617				
<b>Method</b>	EP200.8				
<b>Instrument</b>	Perkin Elmer Sciex ICP-MS P3				



SGS Ref.# 1107114 Method Blank  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch WXX9316  
Method METHOD  
Date 08/14/2012

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009,  
1123670010

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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**Waters Department**

Chloride	0.0620 U	0.100	0.0310	mg/L	08/15/12
Fluoride	0.0620 U	0.100	0.0310	mg/L	08/15/12
Sulfate	0.0620 U	0.100	0.0310	mg/L	08/15/12

Batch WIC5010  
Method EPA 300.0  
Instrument Metrohm 733 IC3



SGS Ref.# 1107133 Method Blank  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009,  
1123670010

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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**Waters Department**

Nitrate-N	0.0620 U	0.100	0.0310	mg/L	08/14/12
Nitrite-N	0.0620 U	0.100	0.0310	mg/L	08/14/12
Total Nitrate/Nitrite-N	0.0325J	0.100	0.0310	mg/L	08/14/12

Batch WFI2124  
Method SM21 4500NO3-F  
Instrument Astoria segmented flow



SGS Ref.# 1107139 Method Blank  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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**Waters Department**

Nitrate-N	0.0365J	0.100	0.0310	mg/L	08/14/12
Nitrite-N	0.0620 U	0.100	0.0310	mg/L	08/14/12
Total Nitrate/Nitrite-N	0.0505J	0.100	0.0310	mg/L	08/14/12

Batch WFI2124  
Method SM21 4500NO3-F  
Instrument Astoria segmented flow



**SGS Ref.#** 1107663 Method Blank  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Prep Batch** MXX25772  
**Method** E200.2  
**Date** 08/17/2012

QC results affect the following production samples:

1123670011, 1123670012, 1123670013, 1123670014, 1123670015, 1123670016, 1123670017, 1123670018, 1123670019, 1123670020, 1123670021

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
<b>Metals by ICP/MS</b>					
Aluminum	7.74J	20.0	6.20	ug/L	08/19/12
Antimony	0.620 U	1.00	0.310	ug/L	08/19/12
Arsenic	3.00 U	5.00	1.50	ug/L	08/19/12
Barium	1.88 U	3.00	0.940	ug/L	08/19/12
Bismuth	0.620 U	1.00	0.310	ug/L	08/19/12
Cadmium	0.300 U	0.500	0.150	ug/L	08/19/12
Calcium	300 U	500	150	ug/L	08/19/12
Chromium	1.24 U	2.00	0.620	ug/L	08/19/12
Copper	0.620 U	1.00	0.310	ug/L	08/19/12
Iron	156 U	250	78.0	ug/L	08/19/12
Lead	0.124 U	0.200	0.0620	ug/L	08/19/12
Magnesium	30.0 U	50.0	15.0	ug/L	08/19/12
Manganese	0.620 U	1.00	0.310	ug/L	08/19/12
Nickel	1.24 U	2.00	0.620	ug/L	08/19/12
Phosphorus	124 U	200	62.0	ug/L	08/19/12
Potassium	300 U	500	150	ug/L	08/19/12
Selenium	3.00 U	5.00	1.50	ug/L	08/19/12
Silicon	124 U	200	62.0	ug/L	08/19/12
Silver	0.620 U	1.00	0.310	ug/L	08/19/12
Sodium	300 U	500	150	ug/L	08/19/12
Zinc	4.18J	5.00	2.50	ug/L	08/19/12

**Batch** MMS7621  
**Method** EP200.8  
**Instrument** Perkin Elmer Sciex ICP-MS P3





SGS Ref.# 1108591 Method Blank  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch WXX9328  
Method METHOD  
Date 08/21/2012

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009,  
1123670010

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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**Waters Department**

Ammonia-N	0.0620 U	0.100	0.0310	mg/L	08/21/12
Batch	WDA2611				
Method	SM21 4500-NH3 G				
Instrument	Konelab				



SGS Ref.# 1109243 Method Blank  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch MXX25797  
Method E200.2  
Date 08/23/2012

QC results affect the following production samples:

1123670008

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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**Metals by ICP/MS**

Cadmium	0.300 U	0.500	0.150	ug/L	08/24/12
Batch	MMS7633				
Method	EP200.8				
Instrument	Perkin Elmer Sciex ICP-MS P3				



SGS Ref.# 1109468 Method Blank  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch MXX25800  
Method METHOD  
Date 08/14/2012

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009,  
1123670010, 1123670022

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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**Metals Department**

Mercury	0.784J	1.00	0.500	ng/L	08/24/12
Batch	MCV5200				
Method	EPA 1631 E				
Instrument	PSA Millennium mercury AF				



SGS Ref.# 1109469 Method Blank  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch MXX25800  
Method METHOD  
Date 08/14/2012

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009,  
1123670010, 1123670022

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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**Metals Department**

Mercury	1.00 U	1.00	0.500	ng/L	08/24/12
Batch	MCV5200				
Method	EPA 1631 E				
Instrument	PSA Millennium mercury AF				



SGS Ref.# 1109472 Method Blank  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch MXX25800  
Method METHOD  
Date 08/14/2012

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009,  
1123670010, 1123670022

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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**Metals Department**

Mercury	1.00 U	1.00	0.500	ng/L	08/24/12
Batch	MCV5200				
Method	EPA 1631 E				
Instrument	PSA Millennium mercury AF				



SGS Ref.# 1109474 Method Blank  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch MXX25800  
Method METHOD  
Date 08/14/2012

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009,  
1123670010, 1123670022

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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**Metals Department**

Mercury	1.00 U	1.00	0.500	ng/L	08/24/12
Batch	MCV5200				
Method	EPA 1631 E				
Instrument	PSA Millennium mercury AF				



SGS Ref.# 1106304 Duplicate  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Original 1123670001  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
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Waters Department

Turbidity	0.800	0.770	NTU	4	(< 20)	08/13/2012
Batch	WAT9349					
Method	SM21 2130B					
Instrument	Turbidimeter					



SGS Ref.# 1106708 Duplicate  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Original 1123639001  
Matrix Drinking Water

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
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Waters Department

pH	7.70	7.60	pH units	1	(< 5)	08/14/2012
Batch	WPH6530					
Method	SM21 4500-H B					
Instrument	Titration					





**SGS Ref.#** 1106709 Duplicate  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Original** 1123670009  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Prep** **Batch**  
**Method**  
**Date**

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
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**Waters Department**

pH	8.30	8.30	pH units	0	(< 5)	08/14/2012
<b>Batch</b>	WPH6530					
<b>Method</b>	SM21 4500-H B					
<b>Instrument</b>	Titration					



SGS Ref.# 1106713 Duplicate  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Original 1123639001  
Matrix Drinking Water

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
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**Waters Department**

Conductivity	742	742	umhos/cm	0	(< 20)	08/14/2012
Batch	WAT9350					
Method	SM21 2510B					
Instrument	Titration					



SGS Ref.# 1106714 Duplicate  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Original 1123670009  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
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**Waters Department**

Conductivity	1430	1435	umhos/cm	0	(< 20)	08/14/2012
Batch	WAT9350					
Method	SM21 2510B					
Instrument	Titration					



SGS Ref.# 1106717 Duplicate  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Original 1123639001  
Matrix Drinking Water

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

QC results affect the following production samples:  
1123670010

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
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Waters Department

Alkalinity	242	240	mg/L	1	(< 25)	08/14/2012
Batch	WTI3725					
Method	SM21 2320B					
Instrument	Titration					



SGS Ref.# 1106718 Duplicate  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Original 1123670009  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
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Waters Department

Alkalinity	51.2	51.2	mg/L	0	(< 25)	08/14/2012
Batch	WTI3725					
Method	SM21 2320B					
Instrument	Titration					



SGS Ref.# 1106907 Duplicate  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Original 1123639001  
Matrix Drinking Water

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

QC results affect the following production samples:  
1123670001, 1123670002, 1123670003, 1123670004, 1123670005

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
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**Waters Department**

Total Dissolved Solids	438	438	mg/L	0	(< 5)	08/15/2012
Batch	WAT9351					
Method	SM21 2540C					
Instrument						



SGS Ref.# 1106912 Duplicate  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Original 1123680001  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
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**Waters Department**

Total Suspended Solids	5950	5750	mg/L	3	(< 5)	08/15/2012
Batch	STS3858					
Method	SM21 2540D					
Instrument						



SGS Ref.# 1106953 Duplicate  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Original 1123670009  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

QC results affect the following production samples:  
1123670009, 1123670010

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
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**Waters Department**

Total Dissolved Solids	981	984	mg/L	0	(< 5)	08/16/2012
Batch	WAT9352					
Method	SM21 2540C					
Instrument						





SGS Ref.# 1106954 Duplicate  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Original 1123670010  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

QC results affect the following production samples:  
1123670006, 1123670007, 1123670008, 1123670010

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
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**Waters Department**

Total Dissolved Solids	983	978	mg/L	1	(< 5)	08/16/2012
Batch	WAT9352					
Method	SM21 2540C					
Instrument						



**SGS Ref.#** 1106958 Duplicate  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Original** 1123670001  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Prep Batch** WXX9313  
**Method** EXT/CN4500  
**Date** 8/15/2012 12:00:00PM

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
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**Waters Department**

Cyanide	0.00300 U	0.00300 U	mg/L	0	(< 25 )	08/15/2012
<b>Batch</b>	WDA2604					
<b>Method</b>	SM21 4500-CN C,E					
<b>Instrument</b>	Konelab					



**SGS Ref.#** 1106960 Duplicate  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Original** 1123670009  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Prep Batch** WXX9313  
**Method** EXT/CN4500  
**Date** 8/15/2012 12:00:00PM

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
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**Waters Department**

Cyanide	0.094	0.12	mg/L	25	(< 25 )	08/15/2012
<b>Batch</b>	WDA2604					
<b>Method</b>	SM21 4500-CN C,E					
<b>Instrument</b>	Konelab					



**SGS Ref.#** 1106965 Duplicate  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Original** 1123670001  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Prep Batch** WXX9314  
**Method** EXT/WAD1  
**Date** 8/15/2012 12:00:00PM

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
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**Waters Department**

Weak Acid Dissociable CN	0.00300 U	0.00300 U	mg/L	0	(< 25 )	08/15/2012
<b>Batch</b>	WDA2605					
<b>Method</b>	SM21 4500-CN I					
<b>Instrument</b>	Konelab					



**SGS Ref.#** 1106967 Duplicate  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Original** 1123670009  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Prep Batch** WXX9314  
**Method** EXT/WAD1  
**Date** 8/15/2012 12:00:00PM

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
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**Waters Department**

Weak Acid Dissociable CN	0.038	0.040	mg/L	5	(< 25 )	08/15/2012
<b>Batch</b>	WDA2605					
<b>Method</b>	SM21 4500-CN I					
<b>Instrument</b>	Konelab					



**SGS Ref.#** 1107110 Undigested Duplicate  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Original** 1123645009  
**Matrix** Drinking Water

**Printed Date/Time** 08/31/2012 13:54  
**Prep** **Batch**  
**Method**  
**Date**

QC results affect the following production samples:

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
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**Waters Department**

Chloride	0.405	0.405	mg/L	0	(< 20 )	08/14/2012
Fluoride	0.218	0.190	mg/L	14	(< 20 )	08/14/2012
Sulfate	30.1	29.9	mg/L	1	(< 20 )	08/14/2012

**Batch** WIC5010  
**Method** EPA 300.0  
**Instrument** Metrohm 733 IC3



**SGS Ref.#** 1107117 Undigested Duplicate  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Original** 1107116  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Prep Batch** WXX9316  
**Method** METHOD  
**Date** 8/14/2012 10:30:00AM

QC results affect the following production samples:

1107118, 1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Chloride	16.0	16.0	mg/L	0	(< 20 )	08/15/2012
Fluoride	0.0530J	0.0510	mg/L	4	(< 20 )	08/15/2012
Sulfate	44.3	44.3	mg/L	0	(< 20 )	08/15/2012

**Waters Department**

**Batch** WIC5010  
**Method** EPA 300.0  
**Instrument** Metrohm 733 IC3



**SGS Ref.#** 1107119 Undigested Duplicate  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Original** 1123636003  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Prep Batch** WXX9316  
**Method** METHOD  
**Date** 8/14/2012 10:30:00AM

QC results affect the following production samples:

1107118, 1107120, 1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008,  
1123670009, 1123670010

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Chloride	0.678	0.672	mg/L	1	(< 20 )	08/15/2012
Fluoride	0.0640J	0.0640	mg/L	0	(< 20 )	08/15/2012
Sulfate	4.79	4.75	mg/L	1	(< 20 )	08/15/2012

**Waters Department**

**Batch** WIC5010  
**Method** EPA 300.0  
**Instrument** Metrohm 733 IC3





**SGS Ref.#** 1108594 Duplicate  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Original** 1123536009  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Prep Batch** WXX9328  
**Method** METHOD  
**Date** 8/21/2012 11:30:00AM

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
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**Waters Department**

Ammonia-N	0.0620 U	0.0620 U	mg/L	0	(< 25 )	08/21/2012
<b>Batch</b>	WDA2611					
<b>Method</b>	SM21 4500-NH3 G					
<b>Instrument</b>	Konelab					



**SGS Ref.#** 1108596 Duplicate  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Original** 1123536010  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Prep Batch** WXX9328  
**Method** METHOD  
**Date** 8/21/2012 11:30:00AM

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
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**Waters Department**

Ammonia-N	0.0620 U	0.0620 U	mg/L	0	(< 25 )	08/21/2012
<b>Batch</b>	WDA2611					
<b>Method</b>	SM21 4500-NH3 G					
<b>Instrument</b>	Konelab					



SGS Ref.# 1106302 Lab Control Sample

Printed Date/Time 08/31/2012 13:54  
Prep Batch

Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Method  
Date

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

Turbidity	LCS	9.38	94	( 90-110 )		10 NTU	08/13/2012
Batch	WAT9349						
Method	SM21 2130B						
Instrument	Turbidimeter						



**SGS Ref.#** 1106447 Lab Control Sample  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Prep Batch** MXX25759  
**Method** E200.2  
**Date** 08/14/2012

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<b>Metals by ICP/MS</b>							
Aluminum	LCS	986	99	( 85-115 )		1000 ug/L	08/14/2012
Antimony	LCS	999	100	( 85-115 )		1000 ug/L	08/14/2012
Arsenic	LCS	1050	105	( 85-115 )		1000 ug/L	08/14/2012
Barium	LCS	1040	104	( 85-115 )		1000 ug/L	08/14/2012
Bismuth	LCS	106	106	( 85-115 )		100 ug/L	08/14/2012
Cadmium	LCS	103	103	( 85-115 )		100 ug/L	08/14/2012
Calcium	LCS	9890	99	( 85-115 )		10000 ug/L	08/14/2012
Chromium	LCS	421	105	( 85-115 )		400 ug/L	08/14/2012
Copper	LCS	1050	105	( 85-115 )		1000 ug/L	08/14/2012
Iron	LCS	5210	104	( 85-115 )		5000 ug/L	08/14/2012
Lead	LCS	1010	101	( 85-115 )		1000 ug/L	08/14/2012
Magnesium	LCS	9810	98	( 85-115 )		10000 ug/L	08/14/2012
Manganese	LCS	529	106	( 85-115 )		500 ug/L	08/14/2012
Nickel	LCS	1060	106	( 85-115 )		1000 ug/L	08/14/2012
Phosphorus	LCS	521	104	( 85-115 )		500 ug/L	08/14/2012
Potassium	LCS	9980	100	( 85-115 )		10000 ug/L	08/14/2012
Selenium	LCS	1060	106	( 85-115 )		1000 ug/L	08/14/2012
Silicon	LCS	9840	98	( 85-115 )		10000 ug/L	08/14/2012
Silver	LCS	115	115	( 85-115 )		100 ug/L	08/14/2012
Sodium	LCS	9550	96	( 85-115 )		10000 ug/L	08/14/2012
Zinc	LCS	1060	106	( 85-115 )		1000 ug/L	08/14/2012

**Batch** MMS7613  
**Method** EP200.8  
**Instrument** Perkin Elmer Sciex ICP-MS P3



SGS Ref.# 1106705 Lab Control Sample

Printed Date/Time 08/31/2012 13:54

Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Prep Batch  
Method  
Date

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

pH LCS 7.04 101 ( 99-101 ) 7 pH units 08/14/2012

Batch WPH6530  
Method SM21 4500-H B  
Instrument Titration



SGS Ref.# 1106711 Lab Control Sample

Printed Date/Time 08/31/2012 13:54  
Prep Batch

Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Method  
Date

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

Conductivity LCS 9.20 91 ( 90-110 ) 10.2 umhos/c 08/14/2012

Batch WAT9350  
Method SM21 2510B  
Instrument Titration



SGS Ref.# 1106716 Lab Control Sample

Printed Date/Time 08/31/2012 13:54

Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Prep Batch  
Method  
Date

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

Alkalinity LCS 230 92 ( 85-115 ) 250 mg/L 08/14/2012

Batch WT13725  
Method SM21 2320B  
Instrument Titration



**SGS Ref.#** 1106904 Lab Control Sample  
 1106905 Lab Control Sample Duplicate  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Prep**  
**Batch**  
**Method**  
**Date**

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

Total Dissolved Solids	LCS	320	97	( 75-125 )		330 mg/L	08/15/2012
	LCSD	318	96		1	(< 5 )	330 mg/L 08/15/2012

**Batch** WAT9351  
**Method** SM21 2540C  
**Instrument**





**SGS Ref.#** 1106909 Lab Control Sample  
 1106910 Lab Control Sample Duplicate  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Prep**  
**Batch**  
**Method**  
**Date**

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

Total Suspended Solids	LCS	45.2	90	( 75-125 )		50 mg/L	08/15/2012
	LCSD	44.4	89		2	(< 5 )	50 mg/L 08/15/2012

**Batch** STS3858  
**Method** SM21 2540D  
**Instrument**



**SGS Ref.#** 1106951 Lab Control Sample  
 1106952 Lab Control Sample Duplicate  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Prep**  
**Batch**  
**Method**  
**Date**

QC results affect the following production samples:  
 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

Total Dissolved Solids	LCS	325	99	( 75-125 )		330 mg/L	08/16/2012
	LCSD	323	98		1	(< 5 )	330 mg/L 08/16/2012

**Batch** WAT9352  
**Method** SM21 2540C  
**Instrument**



**SGS Ref.#** 1106956 Lab Control Sample  
 1106957 Lab Control Sample Duplicate  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Prep Batch** WXX9313  
**Method** EXT/CN4500  
**Date** 08/15/2012

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

Cyanide	LCS	0.054	107	( 75-125 )		0.05 mg/L	08/15/2012
	LCSD	0.056	111		4	(< 25 )	0.05 mg/L 08/15/2012

**Batch** WDA2604  
**Method** SM21 4500-CN C,E  
**Instrument** Konelab



**SGS Ref.#** 1106963 Lab Control Sample  
 1106964 Lab Control Sample Duplicate  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Prep Batch** WXX9314  
**Method** EXT/WAD1  
**Date** 08/15/2012

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

Weak Acid Dissociable CN	LCS	0.053	107	( 75-125 )		0.05 mg/L	08/15/2012
	LCSD	0.054	108		1	(< 25 )	0.05 mg/L 08/15/2012

**Batch** WDA2605  
**Method** SM21 4500-CN I  
**Instrument** Konelab



**SGS Ref.#** 1107008 Lab Control Sample  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Prep Batch** MXX25767  
**Method** E200.2  
**Date** 08/15/2012

QC results affect the following production samples:  
 1123670009, 1123670010

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<b>Metals by ICP/MS</b>							
Aluminum	LCS	1070	107	( 85-115 )		1000 ug/L	08/16/2012
Antimony	LCS	1040	104	( 85-115 )		1000 ug/L	08/16/2012
Arsenic	LCS	1050	105	( 85-115 )		1000 ug/L	08/16/2012
Barium	LCS	1030	103	( 85-115 )		1000 ug/L	08/16/2012
Bismuth	LCS	103	103	( 85-115 )		100 ug/L	08/16/2012
Cadmium	LCS	101	101	( 85-115 )		100 ug/L	08/16/2012
Calcium	LCS	10300	103	( 85-115 )		10000 ug/L	08/16/2012
Chromium	LCS	414	104	( 85-115 )		400 ug/L	08/16/2012
Copper	LCS	1100	110	( 85-115 )		1000 ug/L	08/16/2012
Iron	LCS	5000	100	( 85-115 )		5000 ug/L	08/16/2012
Lead	LCS	1080	108	( 85-115 )		1000 ug/L	08/16/2012
Magnesium	LCS	10900	109	( 85-115 )		10000 ug/L	08/16/2012
Manganese	LCS	545	109	( 85-115 )		500 ug/L	08/16/2012
Nickel	LCS	1090	109	( 85-115 )		1000 ug/L	08/16/2012
Phosphorus	LCS	519	104	( 85-115 )		500 ug/L	08/16/2012
Potassium	LCS	9960	100	( 85-115 )		10000 ug/L	08/16/2012
Selenium	LCS	1100	110	( 85-115 )		1000 ug/L	08/16/2012
Silicon	LCS	10200	102	( 85-115 )		10000 ug/L	08/16/2012
Silver	LCS	111	111	( 85-115 )		100 ug/L	08/16/2012
Sodium	LCS	11100	111	( 85-115 )		10000 ug/L	08/16/2012
Zinc	LCS	1100	110	( 85-115 )		1000 ug/L	08/16/2012

**Batch** MMS7617  
**Method** EP200.8  
**Instrument** Perkin Elmer Sciex ICP-MS P3



SGS Ref.# 1107115 Lab Control Sample

Printed Date/Time 08/31/2012 13:54  
Prep Batch WXX9316  
Method METHOD  
Date 08/14/2012

Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

Chloride	LCS	9.90	99	( 90-110 )		10 mg/L	08/15/2012
Fluoride	LCS	9.58	96	( 90-110 )		10 mg/L	08/15/2012
Sulfate	LCS	9.69	97	( 90-110 )		10 mg/L	08/15/2012

Batch WIC5010  
Method EPA 300.0  
Instrument Metrohm 733 IC3



SGS Ref.# 1107132 Lab Control Sample

Printed Date/Time 08/31/2012 13:54  
Prep Batch

Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Method  
Date

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

Nitrate-N	LCS	0.174	87	( 70-130 )		0.2 mg/L	08/14/2012
Nitrite-N	LCS	0.210	105	( 90-110 )		0.2 mg/L	08/14/2012
Total Nitrate/Nitrite-N	LCS	0.384	96	( 90-110 )		0.4 mg/L	08/14/2012

Batch WFI2124  
Method SM21 4500NO3-F  
Instrument Astoria segmented flow



SGS Ref.# 1107138 Lab Control Sample

Printed Date/Time 08/31/2012 13:54

Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Prep  
Batch  
Method  
Date

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

Nitrate-N	LCS	0.193	96	( 70-130 )		0.2 mg/L	08/14/2012
Nitrite-N	LCS	0.204	102	( 90-110 )		0.2 mg/L	08/14/2012
Total Nitrate/Nitrite-N	LCS	0.397	99	( 90-110 )		0.4 mg/L	08/14/2012

Batch WFI2124  
Method SM21 4500NO3-F  
Instrument Astoria segmented flow





**SGS Ref.#** 1107664 Lab Control Sample  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Prep Batch** MXX25772  
**Method** E200.2  
**Date** 08/17/2012

QC results affect the following production samples:

1123670011, 1123670012, 1123670013, 1123670014, 1123670015, 1123670016, 1123670017, 1123670018, 1123670019, 1123670020, 1123670021

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<b>Metals by ICP/MS</b>							
Aluminum	LCS	1030	103	(85-115)		1000 ug/L	08/19/2012
Antimony	LCS	980	98	(85-115)		1000 ug/L	08/19/2012
Arsenic	LCS	988	99	(85-115)		1000 ug/L	08/19/2012
Barium	LCS	964	96	(85-115)		1000 ug/L	08/19/2012
Bismuth	LCS	105	105	(85-115)		100 ug/L	08/19/2012
Cadmium	LCS	96.7	97	(85-115)		100 ug/L	08/19/2012
Calcium	LCS	9990	100	(85-115)		10000 ug/L	08/19/2012
Chromium	LCS	377	94	(85-115)		400 ug/L	08/19/2012
Copper	LCS	1060	106	(85-115)		1000 ug/L	08/19/2012
Iron	LCS	4830	97	(85-115)		5000 ug/L	08/19/2012
Lead	LCS	1040	104	(85-115)		1000 ug/L	08/19/2012
Magnesium	LCS	10000	100	(85-115)		10000 ug/L	08/19/2012
Manganese	LCS	500	100	(85-115)		500 ug/L	08/19/2012
Nickel	LCS	1030	103	(85-115)		1000 ug/L	08/19/2012
Phosphorus	LCS	501	100	(85-115)		500 ug/L	08/19/2012
Potassium	LCS	9800	98	(85-115)		10000 ug/L	08/19/2012
Selenium	LCS	999	100	(85-115)		1000 ug/L	08/19/2012
Silicon	LCS	9620	96	(85-115)		10000 ug/L	08/19/2012
Silver	LCS	107	107	(85-115)		100 ug/L	08/19/2012
Sodium	LCS	10000	100	(85-115)		10000 ug/L	08/19/2012
Zinc	LCS	1110	111	(85-115)		1000 ug/L	08/19/2012

**Batch** MMS7621  
**Method** EP200.8  
**Instrument** Perkin Elmer Sciex ICP-MS P3



**SGS Ref.#** 1108592 Lab Control Sample  
 1108593 Lab Control Sample Duplicate  
**Client Name** Mystery Creek Resources, Inc.  
**Project Name/#** Quarterly Surface Water  
**Matrix** Water (Surface, Eff., Ground)

**Printed Date/Time** 08/31/2012 13:54  
**Prep Batch** WXX9328  
**Method** METHOD  
**Date** 08/21/2012

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

Ammonia-N	LCS	0.976	98	( 75-125 )		1 mg/L	08/21/2012
	LCSD	1.05	105		8	(< 25 )	1 mg/L 08/21/2012

**Batch** WDA2611  
**Method** SM21 4500-NH3 G  
**Instrument** Konelab



SGS Ref.# 1109244 Lab Control Sample  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch MXX25797  
Method E200.2  
Date 08/23/2012

QC results affect the following production samples:

1123670008

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Metals by ICP/MS**

Cadmium	LCS	101	101	( 85-115 )		100 ug/L	08/24/2012
Batch	MMS7633						
Method	EP200.8						
Instrument	Perkin Elmer Sciex ICP-MS P3						



SGS Ref.# 1109466 Lab Control Sample  
Client Name Mystery Creek Resources, Inc.  
Project Name/# Quarterly Surface Water  
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 08/31/2012 13:54  
Prep Batch MXX25800  
Method METHOD  
Date 08/24/2012

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010, 1123670022

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Metals Department**

Mercury	LCS	26.3	105	( 77-123 )		25 ng/L	08/24/2012
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Batch MCV5200  
Method EPA 1631 E  
Instrument PSA Millennium mercury AF



**SGS Ref.#** 1106450 **Matrix Spike**  
**Printed Date/Time** 08/31/2012 13:54  
**Prep** **Batch** MXX25759  
**Method** DW Digest for Metals on ICP-A  
**Date** 08/14/2012  
**Original** 1106510  
**Matrix** Drinking Water

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008

Parameter	Qualifiers	Original Result	QC Result	Pet Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<b>Metals by ICP/MS</b>									
Aluminum	MS	12.2J	992	98	( 70-130 )			1000	ug/L 08/14/2012
Antimony	MS	(0.620) U	1020	102	( 70-130 )			1000	ug/L 08/14/2012
Arsenic	MS	1.63J	1060	106	( 70-130 )			1000	ug/L 08/14/2012
Barium	MS	5.64	1070	106	( 70-130 )			1000	ug/L 08/14/2012
Cadmium	MS	(0.300) U	103	103	( 70-130 )			100	ug/L 08/14/2012
Calcium	MS	5890	16200	103	( 70-130 )			10000	ug/L 08/14/2012
Chromium	MS	(1.24) U	424	106	( 70-130 )			400	ug/L 08/14/2012
Copper	MS	1.78	1080	107	( 70-130 )			1000	ug/L 08/14/2012
Iron	MS	(156) U	5270	105	( 70-130 )			5000	ug/L 08/14/2012
Lead	MS	0.187J	1050	105	( 70-130 )			1000	ug/L 08/14/2012
Magnesium	MS	385	10400	100	( 70-130 )			10000	ug/L 08/14/2012
Manganese	MS	0.923J	537	107	( 70-130 )			500	ug/L 08/14/2012
Nickel	MS	0.698J	1080	108	( 70-130 )			1000	ug/L 08/14/2012
Phosphorus	MS	762	1270	102	( 70-130 )			500	ug/L 08/14/2012
Potassium	MS	643	10700	100	( 70-130 )			10000	ug/L 08/14/2012
Selenium	MS	(3.00) U	1070	107	( 70-130 )			1000	ug/L 08/14/2012
Silicon	MS	1250	11000	98	( 70-130 )			10000	ug/L 08/14/2012
Silver	MS	(0.620) U	117	117	( 70-130 )			100	ug/L 08/14/2012
Sodium	MS	1820	11800	99	( 70-130 )			10000	ug/L 08/14/2012
Zinc	MS	58.8	1120	106	( 70-130 )			1000	ug/L 08/14/2012

**Batch** MMS7613  
**Method** EP200.8  
**Instrument** Perkin Elmer Sciex ICP-MS P3



SGS Ref.# 1106759 Matrix Spike

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

Original 1123662001  
Matrix Drinking Water

QC results affect the following production samples:

Parameter	Qualifiers	Original Result	QC Result	Pet Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

Total Nitrate/Nitrite-N MS 0.279 4.13 77\* ( 90-110 ) 5.00 mg/L 08/14/2012

Batch WFI2124  
Method SM21 4500NO3-F  
Instrument Astoria segmented flow



SGS Ref.# 1106760 Matrix Spike

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

Original 1123670009  
Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009,  
1123670010

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

Total Nitrate/Nitrite-N MS 9.29 12.4 63\* ( 90-110 ) 5.00 mg/L 08/14/2012

Batch WFI2124  
Method SM21 4500NO3-F  
Instrument Astoria segmented flow



SGS Ref.# 1106761 Matrix Spike

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

Original 1123688001  
Matrix Drinking Water

QC results affect the following production samples:

1123670010

Parameter	Qualifiers	Original Result	QC Result	Pet Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Waters Department

Total Nitrate/Nitrite-N MS 0.101 3.81 74\* ( 90-110 ) 5.00 mg/L 08/14/2012

Batch WFI2124  
Method SM21 4500NO3-F  
Instrument Astoria segmented flow





SGS Ref.# 1106763 Matrix Spike

Printed Date/Time 08/31/2012 13:54  
Prep Batch  
Method  
Date

Original 1106748  
Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

Total Nitrate/Nitrite-N MS (0.0620) U 2.43 49\* ( 90-110 ) 5.00 mg/L 08/14/2012

Batch WFI2124  
Method SM21 4500NO3-F  
Instrument Astoria segmented flow



SGS Ref.# 1106959 Matrix Spike

Printed Date/Time 08/31/2012 13:54  
Prep Batch WXX9313  
Method Cyanide Distillation Kone Lab  
Date 08/15/2012

Original 1123670001  
Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

Cyanide MS (0.0050) U .054 107 ( 75-125 ) 0.050 mg/L 08/15/2012

Batch WDA2604  
Method SM21 4500-CN C,E  
Instrument Konelab



SGS Ref.# 1106961 Matrix Spike

Printed Date/Time 08/31/2012 13:54  
Prep Batch WXX9313  
Method Cyanide Distillation Kone Lab  
Date 08/15/2012

Original 1123670009  
Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009,  
1123670010

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

Cyanide MS 0.094 .14 95 ( 75-125 ) 0.050 mg/L 08/15/2012

Batch WDA2604  
Method SM21 4500-CN C,E  
Instrument Konelab



SGS Ref.# 1106966 Matrix Spike

Printed Date/Time 08/31/2012 13:54  
Prep Batch WXX9314  
Method Weak Acid Dissociable CN D  
Date 08/15/2012

Original 1123670001  
Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

Weak Acid Dissociable CN MS (0.0050) U .046 92 ( 75-125 ) 0.050 mg/L 08/15/2012

Batch WDA2605  
Method SM21 4500-CN I  
Instrument Konelab



SGS Ref.# 1106968 Matrix Spike

Printed Date/Time 08/31/2012 13:54  
Prep Batch WXX9314  
Method Weak Acid Dissociable CN D  
Date 08/15/2012

Original 1123670009  
Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009,  
1123670010

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

Weak Acid Dissociable CN MS 0.038 .088 99 ( 75-125 ) 0.050 mg/L 08/15/2012

Batch WDA2605  
Method SM21 4500-CN I  
Instrument Konelab



SGS Ref.# 1107009 Matrix Spike

Printed Date/Time 08/31/2012 13:54  
 Prep Batch MXX25767  
 Method DW Digest for Metals on ICP-M  
 Date 08/15/2012

Original 1123670009  
 Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:

1123670009, 1123670010

Parameter	Qualifiers	Original Result	QC Result	Pet Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<b>Metals by ICP/MS</b>									
Aluminum	MS	859	2210	135*	(70-130)			1000	ug/L 08/16/2012
Antimony	MS	1.77	1090	109	(70-130)			1000	ug/L 08/16/2012
Arsenic	MS	12.6	1070	106	(70-130)			1000	ug/L 08/16/2012
Barium	MS	47.0	1080	104	(70-130)			1000	ug/L 08/16/2012
Bismuth	MS	(1.00) U	98.8	99	(70-130)			100	ug/L 08/16/2012
Cadmium	MS	(0.500) U	99.4	99	(70-130)			100	ug/L 08/16/2012
Calcium	MS	44700	56000	113	(70-130)			10000	ug/L 08/16/2012
Chromium	MS	(2.00) U	415	104	(70-130)			400	ug/L 08/16/2012
Copper	MS	152	1220	107	(70-130)			1000	ug/L 08/16/2012
Iron	MS	1010	6240	105	(70-130)			5000	ug/L 08/16/2012
Lead	MS	3.18	1100	109	(70-130)			1000	ug/L 08/16/2012
Magnesium	MS	14500	25600	111	(70-130)			10000	ug/L 08/16/2012
Manganese	MS	60.4	617	111	(70-130)			500	ug/L 08/16/2012
Nickel	MS	2.25	1050	105	(70-130)			1000	ug/L 08/16/2012
Phosphorus	MS	(200) U	570	114	(70-130)			500	ug/L 08/16/2012
Potassium	MS	4640	15100	105	(70-130)			10000	ug/L 08/16/2012
Selenium	MS	(5.00) U	1130	113	(70-130)			1000	ug/L 08/16/2012
Silicon	MS	1620	12700	111	(70-130)			10000	ug/L 08/16/2012
Silver	MS	1.76	112	110	(70-130)			100	ug/L 08/16/2012
Sodium	MS	240000	246000	65*	(70-130)			10000	ug/L 08/16/2012
Zinc	MS	23.7	1100	107	(70-130)			1000	ug/L 08/16/2012

Batch MMS7617  
 Method EP200.8  
 Instrument Perkin Elmer Sciex ICP-MS P3



SGS Ref.# 1107010 Bench Spike DIGESTED

Printed Date/Time 08/31/2012 13:54  
Prep Batch MXX25767  
Method DW Digest for Metals on ICP-M  
Date 08/15/2012

Original 1123670009  
Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:

1123670009, 1123670010

Parameter	Qualifiers	Original Result	QC Result	Pet Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Metals by ICP/MS**

Aluminum	BND	859	4070	128	( 70-130 )			2500	ug/L 08/16/2012
Sodium	BND	240000	406000	107	( 70-130 )			156000	ug/L 08/16/2012

Batch MMS7618  
Method EP200.8  
Instrument Perkin Elmer Sciex ICP-MS P3



SGS Ref.# 1107011 Matrix Spike

Printed Date/Time 08/31/2012 13:54  
 Prep Batch MXX25767  
 Method DW Digest for Metals on ICP-M  
 Date 08/15/2012

Original 1123670010  
 Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:

1123670010

Parameter	Qualifiers	Original Result	QC Result	Pet Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<b>Metals by ICP/MS</b>									
Aluminum	MS	880	2430	155*	( 70-130 )			1000	ug/L 08/16/2012
Antimony	MS	1.86	1050	105	( 70-130 )			1000	ug/L 08/16/2012
Arsenic	MS	12.7	1070	106	( 70-130 )			1000	ug/L 08/16/2012
Barium	MS	44.7	1080	104	( 70-130 )			1000	ug/L 08/16/2012
Bismuth	MS	(1.00) U	96.3	96	( 70-130 )			100	ug/L 08/16/2012
Cadmium	MS	(0.500) U	97	97	( 70-130 )			100	ug/L 08/16/2012
Calcium	MS	43800	55900	120	( 70-130 )			10000	ug/L 08/16/2012
Chromium	MS	(2.00) U	427	107	( 70-130 )			400	ug/L 08/16/2012
Copper	MS	144	1240	109	( 70-130 )			1000	ug/L 08/16/2012
Iron	MS	1100	6280	104	( 70-130 )			5000	ug/L 08/16/2012
Lead	MS	3.21	1070	107	( 70-130 )			1000	ug/L 08/16/2012
Magnesium	MS	14300	25900	115	( 70-130 )			10000	ug/L 08/16/2012
Manganese	MS	58.5	612	111	( 70-130 )			500	ug/L 08/16/2012
Nickel	MS	2.28	1070	106	( 70-130 )			1000	ug/L 08/16/2012
Phosphorus	MS	(200) U	553	111	( 70-130 )			500	ug/L 08/16/2012
Potassium	MS	4620	14900	103	( 70-130 )			10000	ug/L 08/16/2012
Selenium	MS	(5.00) U	1120	112	( 70-130 )			1000	ug/L 08/16/2012
Silicon	MS	1870	12800	109	( 70-130 )			10000	ug/L 08/16/2012
Silver	MS	1.91	110	108	( 70-130 )			100	ug/L 08/16/2012
Sodium	MS	226000	264000	381*	( 70-130 )			10000	ug/L 08/16/2012
Zinc	MS	21.7	1100	108	( 70-130 )			1000	ug/L 08/16/2012

Batch MMS7617  
 Method EP200.8  
 Instrument Perkin Elmer Sciex ICP-MS P3





SGS Ref.# 1107012 Bench Spike DIGESTED

Printed Date/Time 08/31/2012 13:54  
Prep Batch MXX25767  
Method DW Digest for Metals on ICP-M  
Date 08/15/2012

Original 1123670010  
Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:

1123670010

Parameter	Qualifiers	Original Result	QC Result	Pet Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Metals by ICP/MS**

Aluminum	BND	880	3610	109	( 70-130 )			2500	ug/L 08/16/2012
Sodium	BND	226000	398000	110	( 70-130 )			156000	ug/L 08/16/2012

Batch MMS7618  
Method EP200.8  
Instrument Perkin Elmer Sciex ICP-MS P3



SGS Ref.# 1107118 Matrix Spike

Printed Date/Time 08/31/2012 13:54  
 Prep Batch WXX9316  
 Method EPA 300.0 Extraction Waters/L  
 Date 08/14/2012

Original 1107116  
 Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

Chloride	MS	16.0	25.8	98	(90-110)			10.0	mg/L 08/15/2012
Fluoride	MS	0.0530J	9.68	96	(90-110)			10.0	mg/L 08/15/2012
Sulfate	MS	44.3	51.4	71*	(90-110)			10.0	mg/L 08/15/2012

Batch WIC5010  
 Method EPA 300.0  
 Instrument Metrohm 733 IC3



SGS Ref.# 1107120 Matrix Spike

Printed Date/Time 08/31/2012 13:54  
 Prep Batch WXX9316  
 Method EPA 300.0 Extraction Waters/L  
 Date 08/14/2012

Original 1123636003  
 Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<b>Waters Department</b>									
Chloride	MS	0.678	12.2		115* (90-110)			10.0	mg/L 08/15/2012
Fluoride	MS	0.0640J	11		110 (90-110)			10.0	mg/L 08/15/2012
Sulfate	MS	4.79	16.9		121* (90-110)			10.0	mg/L 08/15/2012

Batch WIC5010  
 Method EPA 300.0  
 Instrument Metrohm 733 IC3



**SGS Ref.#** 1107665 **Matrix Spike**  
**Printed Date/Time** 08/31/2012 13:54  
**Prep** **Batch** MXX25772  
**Method** DW Digest for Metals on ICP-M  
**Date** 08/17/2012  
**Original** 1123670011  
**Matrix** Water (Surface, Eff., Ground)

QC results affect the following production samples:

1123670011, 1123670012

Parameter	Qualifiers	Original Result	QC Result	Pet Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<b>Metals by ICP/MS</b>									
Aluminum	MS	(100) U	1020	102	( 70-130 )			1000	ug/L 08/19/2012
Antimony	MS	15.6	975	96	( 70-130 )			1000	ug/L 08/19/2012
Arsenic	MS	124	1160	104	( 70-130 )			1000	ug/L 08/19/2012
Barium	MS	105	1030	92	( 70-130 )			1000	ug/L 08/19/2012
Bismuth	MS	(5.00) U	83.1	83	( 70-130 )			100	ug/L 08/19/2012
Cadmium	MS	(2.50) U	91.2	91	( 70-130 )			100	ug/L 08/19/2012
Calcium	MS	586000	588000	25*	( 70-130 )			10000	ug/L 08/19/2012
Chromium	MS	(10.0) U	374	94	( 70-130 )			400	ug/L 08/19/2012
Copper	MS	370000	185000	-18,600*	( 70-130 )			1000	ug/L 08/19/2012
Iron	MS	(1250) U	4720	94	( 70-130 )			5000	ug/L 08/19/2012
Lead	MS	(1.00) U	923	92	( 70-130 )			1000	ug/L 08/19/2012
Magnesium	MS	15100	23900	88	( 70-130 )			10000	ug/L 08/19/2012
Manganese	MS	(5.00) U	480	96	( 70-130 )			500	ug/L 08/19/2012
Nickel	MS	867	1740	88	( 70-130 )			1000	ug/L 08/19/2012
Phosphorus	MS	1900	2350	90	( 70-130 )			500	ug/L 08/19/2012
Potassium	MS	57400	65900	85	( 70-130 )			10000	ug/L 08/19/2012
Selenium	MS	43.4	1120	108	( 70-130 )			1000	ug/L 08/19/2012
Silicon	MS	3610	13200	96	( 70-130 )			10000	ug/L 08/19/2012
Silver	MS	132	2.05	-130*	( 70-130 )			100	ug/L 08/19/2012
Sodium	MS	5260000	5100000	-1,570*	( 70-130 )			10000	ug/L 08/19/2012
Zinc	MS	30.0	1040	101	( 70-130 )			1000	ug/L 08/19/2012

**Batch** MMS7621  
**Method** EP200.8  
**Instrument** Perkin Elmer Sciex ICP-MS P3



SGS Ref.# 1107666 Bench Spike DIGESTED

Printed Date/Time 08/31/2012 13:54  
Prep Batch MXX25772  
Method DW Digest for Metals on ICP-MS  
Date 08/17/2012

Original 1123670011  
Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:

1123670011, 1123670012

Parameter	Qualifiers	Original Result	QC Result	Pet Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Metals by ICP/MS**

Calcium	BND	586000	658000	93	( 70-130 )			78100	ug/L 08/19/2012
Copper	BND	370000	424000	85	( 70-130 )			62500	ug/L 08/19/2012
Silver	BND	132	273	90	( 70-130 )			156	ug/L 08/19/2012
Sodium	BND	5260000	8230000	95	( 70-130 )			3130000	ug/L 08/19/2012

Batch MMS7621  
Method EP200.8  
Instrument Perkin Elmer Sciex ICP-MS P3



**SGS Ref.#** 1107667 **Matrix Spike**  
**Printed Date/Time** 08/31/2012 13:54  
**Prep** **Batch** MXX25772  
**Method** DW Digest for Metals on ICP-M  
**Date** 08/17/2012  
**Original** 1123670012  
**Matrix** Water (Surface, Eff., Ground)

QC results affect the following production samples:

1123670012, 1123670013, 1123670014, 1123670015, 1123670016, 1123670017, 1123670018, 1123670019, 1123670020, 1123670021

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<b>Metals by ICP/MS</b>									
Aluminum	MS	34.0	976	94	( 70-130 )			1000	ug/L 08/19/2012
Antimony	MS	(1.00) U	923	92	( 70-130 )			1000	ug/L 08/19/2012
Arsenic	MS	52.5	982	93	( 70-130 )			1000	ug/L 08/19/2012
Barium	MS	6.08	920	91	( 70-130 )			1000	ug/L 08/19/2012
Bismuth	MS	(1.00) U	94.3	94	( 70-130 )			100	ug/L 08/19/2012
Cadmium	MS	(0.500) U	91.4	91	( 70-130 )			100	ug/L 08/19/2012
Calcium	MS	7920	16600	87	( 70-130 )			10000	ug/L 08/19/2012
Chromium	MS	(2.00) U	357	89	( 70-130 )			400	ug/L 08/19/2012
Copper	MS	1.11	989	99	( 70-130 )			1000	ug/L 08/19/2012
Iron	MS	(250) U	4600	92	( 70-130 )			5000	ug/L 08/19/2012
Lead	MS	(0.200) U	986	99	( 70-130 )			1000	ug/L 08/19/2012
Magnesium	MS	1810	10700	89	( 70-130 )			10000	ug/L 08/19/2012
Manganese	MS	8.01	490	97	( 70-130 )			500	ug/L 08/19/2012
Nickel	MS	(2.00) U	969	97	( 70-130 )			1000	ug/L 08/19/2012
Phosphorus	MS	(200) U	464	93	( 70-130 )			500	ug/L 08/19/2012
Potassium	MS	614	9620	90	( 70-130 )			10000	ug/L 08/19/2012
Selenium	MS	(5.00) U	949	95	( 70-130 )			1000	ug/L 08/19/2012
Silicon	MS	5210	13900	87	( 70-130 )			10000	ug/L 08/19/2012
Silver	MS	(1.00) U	98.2	98	( 70-130 )			100	ug/L 08/19/2012
Sodium	MS	1900	10800	89	( 70-130 )			10000	ug/L 08/19/2012
Zinc	MS	(5.00) U	1040	104	( 70-130 )			1000	ug/L 08/19/2012

**Batch** MMS7621  
**Method** EP200.8  
**Instrument** Perkin Elmer Sciex ICP-MS P3



SGS Ref.# 1108595 Matrix Spike

Printed Date/Time 08/31/2012 13:54  
Prep Batch WXX9328  
Method Ammonia by SM20 4500F prep  
Date 08/21/2012

Original 1123536009  
Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009,  
1123670010

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

Ammonia-N MS (0.0620) U .962 96 ( 75-125 ) 1.00 mg/L 08/21/2012

Batch WDA2611  
Method SM21 4500-NH3 G  
Instrument Konelab



SGS Ref.# 1108597 Matrix Spike

Printed Date/Time 08/31/2012 13:54  
Prep Batch WXX9328  
Method Ammonia by SM20 4500F prep  
Date 08/21/2012

Original 1123536010  
Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Waters Department**

Ammonia-N MS (0.0620) U 1.01 101 ( 75-125 ) 1.00 mg/L 08/21/2012

Batch WDA2611  
Method SM21 4500-NH3 G  
Instrument Konelab





<b>SGS Ref.#</b>	1109470	Matrix Spike	<b>Printed Date/Time</b>	08/31/2012 13:54
	1109471	Matrix Spike Duplicate	<b>Prep</b>	<b>Batch</b>
			<b>Method</b>	MXX25800
			<b>Date</b>	Digestion Low Level Mercury (
<b>Original</b>	1123670001			08/24/2012
<b>Matrix</b>	Water (Surface, Eff., Ground)			

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010, 1123670022

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Metals Department**

Mercury	MS	2.49	27.1	99	( 71-125 )			25.0	ng/L 08/24/2012
	MSD		26.5	96		2	(< 24 )	25.0	ng/L 08/24/2012

**Batch** MCV5200  
**Method** EPA 1631 E  
**Instrument** PSA Millennium mercury AF



<b>SGS Ref.#</b>	1109483	Matrix Spike	<b>Printed Date/Time</b>	08/31/2012 13:54
	1109484	Matrix Spike Duplicate	<b>Prep</b>	<b>Batch</b>
			<b>Method</b>	MXX25800
			<b>Date</b>	Digestion Low Level Mercury (
				08/24/2012
<b>Original</b>	1109475			
<b>Matrix</b>	Water (Surface, Eff., Ground)			

QC results affect the following production samples:

1123670001, 1123670002, 1123670003, 1123670004, 1123670005, 1123670006, 1123670007, 1123670008, 1123670009, 1123670010, 1123670022

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Metals Department**

Mercury	MS	(1.00) U	24.8	99	( 71-125 )			25.0	ng/L 08/24/2012
	MSD		24.8	99		0	(< 24 )	25.0	ng/L 08/24/2012

**Batch** MCV5200  
**Method** EPA 1631 E  
**Instrument** PSA Millennium mercury AF



**SGS North America Inc.**  
**CHAIN OF CUSTODY RECORD**

Locations National  
• Alaska  
• New Jersey  
• North Carolina  
• West Virginia  
www.us.sgs.c

1123670



CLIENT: MCL  
 CONTACT: Fire River Gold PHONE NO: 907-433-2409  
 PROJECT NAME: Quarterly Surface Water PROJECT/ PWSID/ PERMIT#: jsnyder@firerivergold.com  
 REPORTS TO: Fire River Gold EMAIL: jsnyder@firerivergold.com  
 INVOICE TO: Fire River Gold QUOTE #: 1386-01

SGS Reference #: \_\_\_\_\_ page 1 of 2

#	CONTAINERS	SAMPLE TYPE	PRESERVATIVES USED	ANALYSIS REQUIRED	HCl HNO <sub>3</sub>	Dissolved Metals	Cl <sup>-</sup> F <sup>-</sup> SO <sub>4</sub> <sup>2-</sup>	Total Cu/ Ni/ Mn/ Co	NaOH	Sechable Matter	PH Conductivity TDS	Sulfate Nitrate Nitrite	Total Nitrate	EPA 200.8	Total Hg	REMARKS/ LOG ID
1		MC-1			X	X	X	X	X	X	X	X	X	X	X	Ammonia
2		MCA			X	X	X	X	X	X	X	X	X	X	X	
3		MCA			X	X	X	X	X	X	X	X	X	X	X	
4		RCL			X	X	X	X	X	X	X	X	X	X	X	
5		RCA			X	X	X	X	X	X	X	X	X	X	X	
6		Encino			X	X	X	X	X	X	X	X	X	X	X	
7		Trip Blank			X	X	X	X	X	X	X	X	X	X	X	
8		TSF-1			X	X	X	X	X	X	X	X	X	X	X	
9		TSF-2			X	X	X	X	X	X	X	X	X	X	X	
10		FTDS-1			X	X	X	X	X	X	X	X	X	X	X	

DOD Project? YES NO  
 Cooler ID \_\_\_\_\_  
 Data Deliverable Requirements:  
 Requested Turnaround Time and/or Special Instructions: 3 Big Coolers 1 Little  
Please see Metals analysis list Thank you  
 Temperature Blank °C: \_\_\_\_\_ or Ambient [ ]  
 Chain of Custody Seal: (Circle)  
 INTACT  BROKEN  ABSENT   
 (See attached Sample Receipt Form)

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	Received By:
1	MC-1	8/12/12	8:15	H <sub>2</sub> O	
2	MCA	8/12/12	7:05		
3	MCA		7:30		
4	RCL		12:46		
5	RCA		12:00		
6	Encino		2:00		
7	Trip Blank	8/12/12		H <sub>2</sub> O	
8	TSF-1		4:30	H <sub>2</sub> O	
9	TSF-2		4:30		
10	FTDS-1		5:10		

Collector/Relinquished By: (1) Chris Smith Date 8/12/12 Time 5:35  
 Relinquished By: (2) \_\_\_\_\_  
 Relinquished By: (3) \_\_\_\_\_  
 Relinquished By: (4) Snarela Date 8/13/12 Time 1519



SGS North America Inc. CHAIN OF CUSTODY RECORD

1123670



- Locations North America: Alaska, New Jersey, North Carolina, West Virginia

Client: MCR1, Contact: Fire River Gold, Project: Quarterly Surface, Reports to: Fire River Gold, Invoice to: Fire River Gold, Quote #: 1386-01

Table with columns: # CONTAINERS, SAMPLE TYPE, Preservatives Used, Analysis Required, HCl Hubs, Dissolved Metals, Total Metals, TSS, Total Cu/Al/Fe, Settling Matter, PH, Conductivity, Total Nitrate, Ammonia, Remarks

Table with columns: RESERVED for lab use, SAMPLE IDENTIFICATION, DATE, TIME, MATRIX CODE, Collected/Relinquished By, Date, Time, Received By

Summary section: DOD Project?, Cooler ID, Requested Turnaround Time and/or Special Instructions: Please see Metals analysis list, Temperature Blank, Chain of Custody Seal



1123670



## SAMPLE RECEIPT FORM

Review Criteria:	Condition:	Comments/Action Taken:
Were custody seals intact? Note # & location, if applicable. COC accompanied samples?	Yes No N/A Yes No N/A	2F
Temperature blank compliant* (i.e., 0-6°C after correction factor)? * Note: Exemption permitted for chilled samples collected less than 8 hours ago. Cooler ID: <u>1</u> @ <u>8.0</u> w/ Therm.ID: <u>11</u> Cooler ID: <u>2</u> @ <u>8.3</u> w/ Therm.ID: <u>92</u> Cooler ID: <u>3</u> @ <u>7.3</u> w/ Therm.ID: <u>92</u> Cooler ID: <u>4</u> @ <u>11.5</u> w/ Therm.ID: <u>35</u> Cooler ID: _____ @ _____ w/ Therm.ID: _____ Note: If non-compliant, use form FS-0029 to document affected samples/analyses. If samples are received <u>without</u> a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "COOLER TEMP" will be noted to the right. In cases where neither a temp blank <u>nor</u> cooler temp can be obtained, note "ambient" or "chilled." If temperature(s) <0°C, were all sample containers ice free?	Yes No N/A Yes No N/A	Client ok with temp. Proceed per PM.
Delivery method (specify all that apply): USPS <input checked="" type="checkbox"/> Alert Courier Road Runner AK Air Lynden Carlile ERA PenAir FedEx UPS NAC Other: → For WO# with airbills, was the WO# & airbill info recorded in the Front Counter eLog?	Note ABN/ tracking #  See Attached or N/A Yes No N/A	
→ For samples received with payment, note amount (\$) and cash / check / CC (circle one) or note: → For samples received in FBKS, ANCH staff will verify all criteria are reviewed.		SRF Initiated by: SC <input checked="" type="checkbox"/> N/A N/A
Were samples received within hold time? Note: Refer to form F-083 "Sample Guide" for hold time information. Do samples match COC* (i.e., sample IDs, dates/times collected)? * Note: Exemption permitted if times differ <1hr; in which case, use times on COC. Were analyses requested unambiguous?	Yes No N/A Yes No N/A Yes No N/A	Only 10 bottles received per sample (except sample 8 which has 11), whereas COC says 11 bottles per sample.
Were samples in good condition (no leaks/cracks/breakage)? Packing material used (specify all that apply): Bubble Wrap Separate plastic bags Vermiculite Other:	Yes No N/A Yes No N/A	
Were all VOA vials free of headspace (i.e., bubbles ≤6 mm)? Were all soil VOAs field extracted with MeOH+BFB?	Yes No N/A Yes No N/A	
Were proper containers (type/mass/volume/preservative*) used? * Note: Exemption permitted for waters to be analyzed for metals. Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	Yes No N/A Yes No N/A	One trip blank in cooler with samples 4-7
For special handling (e.g., "MI" or foreign soils, lab filter, limited volume, Ref Lab), were bottles/paperwork flagged (e.g., sticker)?	Yes No N/A	
For preserved waters (other than VOA vials, LL-Mercury or microbiological analyses), was pH verified and compliant? If pH was adjusted, were bottles flagged (i.e., stickers)?	Yes No N/A Yes No N/A	
For RUSH/SHORT Hold Time or site-specific QC (e.g., BMS/BMSD/BDUP) samples, were the COC & bottles flagged (e.g., stickers) accordingly? For RUSH/SHORT HT, was email sent?	Yes No N/A	
For any question answered "No," has the PM been notified and the problem resolved (or paperwork put in their bin)?	Yes No N/A	SRF Completed by: SC PM = KN N/A
Was PEER REVIEW of sample numbering/labeling completed?	Yes No N/A	Peer Reviewed by: N/A
Additional notes (if applicable): Analyze for nitrate and nitrite, unpreserved if within hold time. If hold times are exceeded, analyze for total nitrate/nitrite, preserved. kw 8/13/12		

Note to Client: Any "no" circled above indicates non-compliance with standard procedures and may impact data quality.

Please analyze for the following metals:

- Calcium (total and dissolved)
- iron
- magnesium
- potassium
- silicon
- sodium
- manganese
- aluminum
- antimony
- arsenic
- barium
- bismuth
- chromium
- copper
- lead
- nickel
- selenium
- silver
- zinc
- phosphorous (total)



Thanks!

**Alert Expeditors Inc.**  
**DBA/Petroleum Courier Service**

331257

Citywide Delivery  
272-0349 • 440-3351  
8421 Flamingo Drive • Anchorage, Alaska 99502

Date 8/13/12 From Mystery Creek

To 575

Collect  Prepay  Advance Charges   
Account

Job # PO#

4 @ 180 PLAT

1123670



Shipped Signature

Received By: [Signature] Total Charge 15.14