



3440 South 700 West
Salt Lake City, UT 84119

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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lenora Sullivan
Utah Division of Water Quality
PO Box 144870
SLC, UT 84114
TEL: (801) 538-6329

RE: Gold King Mine - San Juan River Sampling

Dear Lenora Sullivan:

Lab Set ID: 1508303

American West Analytical Laboratories received sample(s) on 8/15/2015 for the analyses presented in the following report.

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by: _____
Laboratory Director or designee



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Lenora Sullivan
Project: Gold King Mine - San Juan River Sampling
Lab Sample ID: 1508303-001
Client Sample ID: San Juan R at Sand Island (4953250)
Collection Date: 8/15/2015 1131h
Received Date: 8/15/2015 2120h

Analytical Results

TOTAL METALS

Compound	CAS	Units	Date Prepared	Date Analyzed	Method Used	MDL	Reporting Limit	Analytical Result	Qual
Aluminum	7429-90-5	mg/kg-dry	8/19/2015 1231h	8/25/2015 1043h	SW6010C	22.2	129	10,600	² B
Antimony	7440-36-0	mg/kg-dry	8/19/2015 1231h	8/20/2015 2131h	SW6020A	0.375	4.13	< 4.13	U
Arsenic	7440-38-2	mg/kg-dry	8/19/2015 1231h	8/20/2015 2131h	SW6020A	0.0836	2.58	2.78	
Barium	7440-39-3	mg/kg-dry	8/19/2015 1231h	8/20/2015 2131h	SW6020A	2.79	4.65	297	²
Beryllium	7440-41-7	mg/kg-dry	8/19/2015 1231h	8/20/2015 2131h	SW6020A	0.00614	2.07	0.451	J
Cadmium	7440-43-9	mg/kg-dry	8/19/2015 1231h	8/20/2015 2131h	SW6020A	0.0174	0.878	0.170	J
Calcium	7440-70-2	mg/kg-dry	8/19/2015 1231h	8/25/2015 1043h	SW6010C	30.6	1,290	10,500	² B
Chromium	7440-47-3	mg/kg-dry	8/19/2015 1231h	8/20/2015 2131h	SW6020A	2.51	10.3	9.53	J
Cobalt	7440-48-4	mg/kg-dry	8/19/2015 1231h	8/20/2015 2131h	SW6020A	0.157	1.39	3.19	
Copper	7440-50-8	mg/kg-dry	8/19/2015 1231h	8/20/2015 2131h	SW6020A	1.59	16.0	6.35	J
Iron	7439-89-6	mg/kg-dry	8/19/2015 1231h	8/25/2015 1043h	SW6010C	14.7	64.6	9,630	² B
Lead	7439-92-1	mg/kg-dry	8/19/2015 1231h	8/20/2015 2131h	SW6020A	3.09	6.71	6.20	J
Magnesium	7439-95-4	mg/kg-dry	8/19/2015 1231h	8/25/2015 1110h	SW6010C	13.6	129	3,120	³ B
Manganese	7439-96-5	mg/kg-dry	8/19/2015 1231h	8/20/2015 2131h	SW6020A	0.692	4.13	223	³
Mercury	7439-97-6	mg/kg-dry	8/22/2015 1530h	8/24/2015 1126h	SW7471B	0.00160	0.0473	0.00284	J
Molybdenum	7439-98-7	mg/kg-dry	8/19/2015 1231h	8/20/2015 2131h	SW6020A	0.368	20.7	< 20.7	U
Nickel	7440-02-0	mg/kg-dry	8/19/2015 1231h	8/20/2015 2131h	SW6020A	2.26	20.7	4.96	J
Potassium	7440-09-7	mg/kg-dry	8/19/2015 1231h	8/25/2015 1110h	SW6010C	26.2	129	2,540	³
Selenium	7782-49-2	mg/kg-dry	8/19/2015 1231h	8/20/2015 2131h	SW6020A	0.563	8.78	< 8.78	U
Silver	7440-22-4	mg/kg-dry	8/19/2015 1231h	8/20/2015 2131h	SW6020A	0.0231	1.55	0.0243	J
Sodium	7440-23-5	mg/kg-dry	8/19/2015 1231h	8/25/2015 1110h	SW6010C	9.96	129	277	B
Thallium	7440-28-0	mg/kg-dry	8/19/2015 1231h	8/20/2015 2131h	SW6020A	0.00521	4.13	0.131	J
Vanadium	7440-62-2	mg/kg-dry	8/19/2015 1231h	8/20/2015 2131h	SW6020A	0.532	10.3	22.9	
Zinc	7440-66-6	mg/kg-dry	8/19/2015 1231h	8/20/2015 2131h	SW6020A	5.21	51.6	26.7	J

² - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.

³ - Matrix spike recoveries and/or high RPDs indicate suspected sample non-homogeneity. The method is in control as indicated by the LCS.

B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.

J - Estimated value between the MDL and the reporting limit (PQL).

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INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Lenora Sullivan
Project: Gold King Mine - San Juan River Sampling
Lab Sample ID: 1508303-002
Client Sample ID: San Juan River at Town of Montezuma
Collection Date: 8/15/2015 1030h
Received Date: 8/15/2015 2120h

Analytical Results

TOTAL METALS

Compound	CAS	Units	Date Prepared	Date Analyzed	Method Used	MDL	Reporting Limit	Analytical Result	Qual
Aluminum	7429-90-5	mg/kg-dry	8/19/2015 1231h	8/25/2015 1054h	SW6010C	23.0	134	14,600	B
Antimony	7440-36-0	mg/kg-dry	8/19/2015 1231h	8/27/2015 1646h	SW6020A	0.389	4.28	< 4.28	U
Arsenic	7440-38-2	mg/kg-dry	8/19/2015 1231h	8/27/2015 1646h	SW6020A	0.0866	2.67	3.16	
Barium	7440-39-3	mg/kg-dry	8/19/2015 1231h	8/27/2015 1646h	SW6020A	2.89	4.81	199	
Beryllium	7440-41-7	mg/kg-dry	8/19/2015 1231h	8/27/2015 1646h	SW6020A	0.00636	2.14	0.566	J
Cadmium	7440-43-9	mg/kg-dry	8/19/2015 1231h	8/27/2015 1646h	SW6020A	0.0180	0.909	0.239	J
Calcium	7440-70-2	mg/kg-dry	8/19/2015 1231h	8/25/2015 1054h	SW6010C	31.7	1,340	11,100	B
Chromium	7440-47-3	mg/kg-dry	8/19/2015 1231h	8/27/2015 1646h	SW6020A	2.60	10.7	13.9	
Cobalt	7440-48-4	mg/kg-dry	8/19/2015 1231h	8/27/2015 1646h	SW6020A	0.162	1.44	4.23	
Copper	7440-50-8	mg/kg-dry	8/19/2015 1231h	8/27/2015 1646h	SW6020A	1.64	16.6	7.94	J
Iron	7439-89-6	mg/kg-dry	8/19/2015 1231h	8/25/2015 1054h	SW6010C	15.2	66.8	12,100	B
Lead	7439-92-1	mg/kg-dry	8/19/2015 1231h	8/27/2015 1646h	SW6020A	3.20	6.95	7.46	
Magnesium	7439-95-4	mg/kg-dry	8/19/2015 1231h	8/25/2015 1117h	SW6010C	14.0	134	3,810	B
Manganese	7439-96-5	mg/kg-dry	8/19/2015 1231h	8/27/2015 1646h	SW6020A	0.716	4.28	241	
Mercury	7439-97-6	mg/kg-dry	8/22/2015 1530h	8/24/2015 1131h	SW7471B	0.00160	0.0474	0.00569	J
Molybdenum	7439-98-7	mg/kg-dry	8/19/2015 1231h	8/27/2015 1646h	SW6020A	0.381	21.4	< 21.4	U
Nickel	7440-02-0	mg/kg-dry	8/19/2015 1231h	8/27/2015 1646h	SW6020A	2.34	21.4	6.67	J
Potassium	7440-09-7	mg/kg-dry	8/19/2015 1231h	8/25/2015 1117h	SW6010C	27.1	134	3,140	
Selenium	7782-49-2	mg/kg-dry	8/19/2015 1231h	8/27/2015 1646h	SW6020A	0.583	9.09	< 9.09	U
Silver	7440-22-4	mg/kg-dry	8/19/2015 1231h	8/27/2015 1646h	SW6020A	0.0239	1.60	0.0315	J
Sodium	7440-23-5	mg/kg-dry	8/19/2015 1231h	8/25/2015 1117h	SW6010C	10.3	134	393	B
Thallium	7440-28-0	mg/kg-dry	8/19/2015 1231h	8/27/2015 1646h	SW6020A	0.00540	4.28	0.171	J
Vanadium	7440-62-2	mg/kg-dry	8/19/2015 1231h	8/27/2015 1646h	SW6020A	0.550	10.7	26.7	
Zinc	7440-66-6	mg/kg-dry	8/19/2015 1231h	8/27/2015 1646h	SW6020A	5.40	53.4	33.1	J

B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.

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INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Lenora Sullivan
Project: Gold King Mine - San Juan River Sampling
Lab Sample ID: 1508303-003
Client Sample ID: San Juan R at US160 Xing in CO (4954000)
Collection Date: 8/15/2015 943h
Received Date: 8/15/2015 2120h

Analytical Results

TOTAL METALS

Compound	CAS	Units	Date Prepared	Date Analyzed	Method Used	MDL	Reporting Limit	Analytical Result	Qual
Aluminum	7429-90-5	mg/kg-dry	8/19/2015 1231h	8/25/2015 1056h	SW6010C	23.3	135	12,900	B
Antimony	7440-36-0	mg/kg-dry	8/19/2015 1231h	8/27/2015 1649h	SW6020A	0.393	4.33	< 4.33	U
Arsenic	7440-38-2	mg/kg-dry	8/19/2015 1231h	8/27/2015 1649h	SW6020A	0.0877	2.71	3.20	
Barium	7440-39-3	mg/kg-dry	8/19/2015 1231h	8/27/2015 1649h	SW6020A	2.93	4.87	217	
Beryllium	7440-41-7	mg/kg-dry	8/19/2015 1231h	8/27/2015 1649h	SW6020A	0.00644	2.16	0.541	J
Cadmium	7440-43-9	mg/kg-dry	8/19/2015 1231h	8/27/2015 1649h	SW6020A	0.0182	0.920	0.203	J
Calcium	7440-70-2	mg/kg-dry	8/19/2015 1231h	8/25/2015 1056h	SW6010C	32.1	1,350	9,140	B
Chromium	7440-47-3	mg/kg-dry	8/19/2015 1231h	8/27/2015 1649h	SW6020A	2.63	10.8	12.1	
Cobalt	7440-48-4	mg/kg-dry	8/19/2015 1231h	8/27/2015 1649h	SW6020A	0.164	1.46	4.14	
Copper	7440-50-8	mg/kg-dry	8/19/2015 1231h	8/27/2015 1649h	SW6020A	1.66	16.8	8.26	J
Iron	7439-89-6	mg/kg-dry	8/19/2015 1231h	8/25/2015 1056h	SW6010C	15.4	67.6	11,900	B
Lead	7439-92-1	mg/kg-dry	8/19/2015 1231h	8/27/2015 1649h	SW6020A	3.24	7.03	6.99	J
Magnesium	7439-95-4	mg/kg-dry	8/19/2015 1231h	8/25/2015 1119h	SW6010C	14.2	135	3,300	B
Manganese	7439-96-5	mg/kg-dry	8/19/2015 1231h	8/27/2015 1649h	SW6020A	0.725	4.33	240	
Mercury	7439-97-6	mg/kg-dry	8/22/2015 1530h	8/24/2015 1133h	SW7471B	0.00157	0.0465	0.00535	J
Molybdenum	7439-98-7	mg/kg-dry	8/19/2015 1231h	8/27/2015 1649h	SW6020A	0.385	21.6	< 21.6	U
Nickel	7440-02-0	mg/kg-dry	8/19/2015 1231h	8/27/2015 1649h	SW6020A	2.36	21.6	6.40	J
Potassium	7440-09-7	mg/kg-dry	8/19/2015 1231h	8/25/2015 1119h	SW6010C	27.5	135	2,660	
Selenium	7782-49-2	mg/kg-dry	8/19/2015 1231h	8/27/2015 1649h	SW6020A	0.590	9.20	< 9.20	U
Silver	7440-22-4	mg/kg-dry	8/19/2015 1231h	8/27/2015 1649h	SW6020A	0.0242	1.62	0.0339	J
Sodium	7440-23-5	mg/kg-dry	8/19/2015 1231h	8/25/2015 1119h	SW6010C	10.4	135	344	B
Thallium	7440-28-0	mg/kg-dry	8/19/2015 1231h	8/27/2015 1649h	SW6020A	0.00547	4.33	0.140	J
Vanadium	7440-62-2	mg/kg-dry	8/19/2015 1231h	8/27/2015 1649h	SW6020A	0.557	10.8	25.3	
Zinc	7440-66-6	mg/kg-dry	8/19/2015 1231h	8/27/2015 1649h	SW6020A	5.47	54.1	32.0	J

B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.

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QA Officer

INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Lenora Sullivan
Project: Gold King Mine - San Juan River Sampling
Lab Sample ID: 1508303-004
Client Sample ID: San Juan Riv @ Clay Hill
Collection Date: 8/15/2015 1430h
Received Date: 8/15/2015 2120h

Analytical Results

TOTAL METALS

Compound	CAS	Units	Date Prepared	Date Analyzed	Method Used	MDL	Reporting Limit	Analytical Result	Qual
Aluminum	7429-90-5	mg/kg-dry	8/19/2015 1231h	8/25/2015 1106h	SW6010C	23.4	136	6,160	B
Antimony	7440-36-0	mg/kg-dry	8/19/2015 1231h	8/20/2015 2147h	SW6020A	0.395	4.35	< 4.35	U
Arsenic	7440-38-2	mg/kg-dry	8/19/2015 1231h	8/20/2015 2147h	SW6020A	0.0880	2.72	1.50	J
Barium	7440-39-3	mg/kg-dry	8/19/2015 1231h	8/20/2015 2147h	SW6020A	2.94	4.89	251	
Beryllium	7440-41-7	mg/kg-dry	8/19/2015 1231h	8/20/2015 2147h	SW6020A	0.00647	2.17	0.309	J
Cadmium	7440-43-9	mg/kg-dry	8/19/2015 1231h	8/20/2015 2147h	SW6020A	0.0183	0.924	0.146	J
Calcium	7440-70-2	mg/kg-dry	8/19/2015 1231h	8/25/2015 1106h	SW6010C	32.2	1,360	16,900	B
Chromium	7440-47-3	mg/kg-dry	8/19/2015 1231h	8/20/2015 2147h	SW6020A	2.64	10.9	6.31	J
Cobalt	7440-48-4	mg/kg-dry	8/19/2015 1231h	8/20/2015 2147h	SW6020A	0.165	1.47	2.07	
Copper	7440-50-8	mg/kg-dry	8/19/2015 1231h	8/20/2015 2147h	SW6020A	1.67	16.8	2.83	J
Iron	7439-89-6	mg/kg-dry	8/19/2015 1231h	8/25/2015 1106h	SW6010C	15.5	67.9	6,040	B
Lead	7439-92-1	mg/kg-dry	8/19/2015 1231h	8/20/2015 2147h	SW6020A	3.26	7.07	3.96	J
Magnesium	7439-95-4	mg/kg-dry	8/19/2015 1231h	8/25/2015 1121h	SW6010C	14.3	136	3,550	B
Manganese	7439-96-5	mg/kg-dry	8/19/2015 1231h	8/20/2015 2147h	SW6020A	0.728	4.35	176	
Mercury	7439-97-6	mg/kg-dry	8/22/2015 1530h	8/24/2015 1138h	SW7471B	0.00150	0.0445	0.00334	J
Molybdenum	7439-98-7	mg/kg-dry	8/19/2015 1231h	8/20/2015 2147h	SW6020A	0.387	21.7	< 21.7	U
Nickel	7440-02-0	mg/kg-dry	8/19/2015 1231h	8/20/2015 2147h	SW6020A	2.38	21.7	3.68	J
Potassium	7440-09-7	mg/kg-dry	8/19/2015 1231h	8/25/2015 1121h	SW6010C	27.6	136	1,790	
Selenium	7782-49-2	mg/kg-dry	8/19/2015 1231h	8/20/2015 2147h	SW6020A	0.592	9.24	< 9.24	U
Silver	7440-22-4	mg/kg-dry	8/19/2015 1231h	8/20/2015 2147h	SW6020A	0.0243	1.63	< 1.63	U
Sodium	7440-23-5	mg/kg-dry	8/19/2015 1231h	8/25/2015 1121h	SW6010C	10.5	136	218	B
Thallium	7440-28-0	mg/kg-dry	8/19/2015 1231h	8/20/2015 2147h	SW6020A	0.00549	4.35	0.0650	J
Vanadium	7440-62-2	mg/kg-dry	8/19/2015 1231h	8/20/2015 2147h	SW6020A	0.560	10.9	13.7	
Zinc	7440-66-6	mg/kg-dry	8/19/2015 1231h	8/20/2015 2147h	SW6020A	5.49	54.3	16.5	J

B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.

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INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Lenora Sullivan
Project: Gold King Mine - San Juan River Sampling
Lab Sample ID: 1508303-001
Client Sample ID: San Juan R at Sand Island (4953250)
Collection Date: 8/15/2015 1131h
Received Date: 8/15/2015 2120h

Analytical Results

Compound	CAS	Units	Date Prepared	Date Analyzed	Method Used	MDL	Reporting Limit	Analytical Result	Qual
Hardness (as CaCO ₃)		mg/L		8/26/2015 719h	SM2340B	10.0	10.0	39,000	



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Client:	Utah Division of Water Quality	Contact:	Lenora Sullivan
Project:	Gold King Mine - San Juan River Sampling		
Lab Sample ID:	1508303-002		
Client Sample ID:	San Juan River at Town of Montezuma		
Collection Date:	8/15/2015 1030h		
Received Date:	8/15/2015 2120h		

Analytical Results

Compound	CAS	Units	Date Prepared	Date Analyzed	Method Used	MDL	Reporting Limit	Analytical Result	Qual
Hardness (as CaCO3)		mg/L		8/26/2015 719h	SM2340B	10.0	10.0	43,500	



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INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Lenora Sullivan
Project: Gold King Mine - San Juan River Sampling
Lab Sample ID: 1508303-003
Client Sample ID: San Juan R at US160 Xing in CO (4954000)
Collection Date: 8/15/2015 943h
Received Date: 8/15/2015 2120h

Analytical Results

Compound	CAS	Units	Date Prepared	Date Analyzed	Method Used	MDL	Reporting Limit	Analytical Result	Qual
Hardness (as CaCO ₃)		mg/L		8/26/2015 719h	SM2340B	10.0	10.0	36,400	



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Analytical Results

Compound	CAS	Units	Date Prepared	Date Analyzed	Method Used	MDL	Reporting Limit	Analytical Result	Qual
Hardness (as CaCO ₃)		mg/L		8/26/2015 719h	SM2340B	10.0	10.0	56,800	



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QC SUMMARY REPORT

Client: Utah Division of Water Quality

Lab Set ID: 1508303

Project: Gold King Mine - San Juan River Sampling

Contact: Lenora Sullivan

Dept: ME

QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-38694		Date Analyzed:	08/25/2015 1038h										
Test Code: 6010C-S		Date Prepared:	08/19/2015 1231h										
Aluminum	93.7	mg/kg	SW6010C	1.72	10.0	100.0	0	93.7	80 - 120				
Calcium	997	mg/kg	SW6010C	2.37	100	1,000	0	99.7	80 - 120				
Iron	98.1	mg/kg	SW6010C	1.14	5.00	100.0	0	98.1	80 - 120				
Magnesium	925	mg/kg	SW6010C	10.5	100	1,000	0	92.5	80 - 120				
Potassium	910	mg/kg	SW6010C	20.3	100	1,000	0	91.0	80 - 120				
Sodium	947	mg/kg	SW6010C	7.71	100	1,000	0	94.7	80 - 120				
Lab Sample ID: LCS-38694		Date Analyzed:	08/20/2015 2051h										
Test Code: 6020-S		Date Prepared:	08/19/2015 1231h										
Antimony	20.8	mg/kg	SW6020A	0.291	3.20	20.00	0	104	85 - 115				
Arsenic	20.8	mg/kg	SW6020A	0.0648	2.00	20.00	0	104	85 - 115				
Barium	20.5	mg/kg	SW6020A	2.16	3.60	20.00	0	102	85 - 115				
Beryllium	21.4	mg/kg	SW6020A	0.00476	1.60	20.00	0	107	85 - 115				
Cadmium	20.2	mg/kg	SW6020A	0.0135	0.680	20.00	0	101	85 - 115				
Chromium	20.7	mg/kg	SW6020A	1.94	8.00	20.00	0	104	85 - 115				
Cobalt	20.2	mg/kg	SW6020A	0.122	1.08	20.00	0	101	85 - 115				
Copper	21.1	mg/kg	SW6020A	1.23	12.4	20.00	0	106	85 - 115				
Lead	20.8	mg/kg	SW6020A	2.40	5.20	20.00	0	104	85 - 115				
Manganese	20.4	mg/kg	SW6020A	0.536	3.20	20.00	0	102	85 - 115				
Molybdenum	21.0	mg/kg	SW6020A	0.285	16.0	20.00	0	105	85 - 115				
Nickel	20.0	mg/kg	SW6020A	1.75	16.0	20.00	0	100	85 - 115				
Selenium	20.1	mg/kg	SW6020A	0.436	6.80	20.00	0	100	85 - 115				
Silver	20.1	mg/kg	SW6020A	0.0179	1.20	20.00	0	101	85 - 115				
Thallium	20.4	mg/kg	SW6020A	0.00404	3.20	20.00	0	102	85 - 115				
Vanadium	20.7	mg/kg	SW6020A	0.412	8.00	20.00	0	103	85 - 115				
Zinc	104	mg/kg	SW6020A	4.04	40.0	100.0	0	104	85 - 115				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1508303
Project: Gold King Mine - San Juan River Sampling

Contact: Lenora Sullivan
Dept: ME
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-38775	Date Analyzed:	08/24/2015 1121h											
Test Code: HG-S-7471B	Date Prepared:	08/22/2015 1530h											
Mercury	0.428	mg/kg	SW7471B	0.00135	0.0400	0.4000	0	107	80 - 120				



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QC SUMMARY REPORT

Client: Utah Division of Water Quality

Contact: Lenora Sullivan

Lab Set ID: 1508303

Dept: ME

Project: Gold King Mine - San Juan River Sampling

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-38694	Date Analyzed:	08/25/2015	1037h										
Test Code:	6010C-S	Date Prepared:	08/19/2015	1231h									
Aluminum	2.09	mg/kg	SW6010C	1.72	10.0								JB
Calcium	74.7	mg/kg	SW6010C	2.37	100								JB
Iron	8.09	mg/kg	SW6010C	1.14	5.00								B
Magnesium	14.0	mg/kg	SW6010C	10.5	100								JB
Potassium	< 100	mg/kg	SW6010C	20.3	100								U
Sodium	11.1	mg/kg	SW6010C	7.71	100								JB
Lab Sample ID: MB-38694	Date Analyzed:	08/20/2015	2048h										
Test Code:	6020-S	Date Prepared:	08/19/2015	1231h									
Antimony	< 3.20	mg/kg	SW6020A	0.291	3.20								U
Arsenic	< 2.00	mg/kg	SW6020A	0.0648	2.00								U
Barium	< 3.60	mg/kg	SW6020A	2.16	3.60								U
Beryllium	< 1.60	mg/kg	SW6020A	0.00476	1.60								U
Cadmium	< 0.680	mg/kg	SW6020A	0.0135	0.680								U
Chromium	< 8.00	mg/kg	SW6020A	1.94	8.00								U
Cobalt	< 1.08	mg/kg	SW6020A	0.122	1.08								U
Copper	< 12.4	mg/kg	SW6020A	1.23	12.4								U
Lead	< 5.20	mg/kg	SW6020A	2.40	5.20								U
Manganese	< 3.20	mg/kg	SW6020A	0.536	3.20								U
Molybdenum	< 16.0	mg/kg	SW6020A	0.285	16.0								U
Nickel	< 16.0	mg/kg	SW6020A	1.75	16.0								U
Selenium	< 6.80	mg/kg	SW6020A	0.436	6.80								U
Silver	< 1.20	mg/kg	SW6020A	0.0179	1.20								U
Thallium	< 3.20	mg/kg	SW6020A	0.00404	3.20								U
Vanadium	< 8.00	mg/kg	SW6020A	0.412	8.00								U
Zinc	< 40.0	mg/kg	SW6020A	4.04	40.0								U



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality

Lab Set ID: 1508303

Project: Gold King Mine - San Juan River Sampling

Contact: Lenora Sullivan

Dept: ME

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-38775	Date Analyzed:	08/24/2015	1119h										
Test Code: HG-S-7471B	Date Prepared:	08/22/2015	1530h										
Mercury	< 0.0400	mg/kg	SW7471B	0.00135	0.0400								U

B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.

J - Estimated value between the MDL and the reporting limit (PQL).

U - This flag indicates the compound was analyzed for but not detected above the MDL.



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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1508303
Project: Gold King Mine - San Juan River Sampling

Contact: Lenora Sullivan
Dept: ME
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1508303-001AMS													
Date Analyzed:	08/25/2015 1050h												
Test Code:	6010C-S												
Date Prepared:	08/19/2015 1231h												
Aluminum	9,630	mg/kg-dry	SW6010C	25.2	146	146.5	10600	-660	75 - 125				2
Calcium	10,900	mg/kg-dry	SW6010C	34.7	1,460	1,465	10500	26.2	75 - 125				2
Iron	8,630	mg/kg-dry	SW6010C	16.7	73.2	146.5	9630	-684	75 - 125				2
Lab Sample ID: 1508303-001AMS													
Date Analyzed:	08/25/2015 1112h												
Test Code:	6010C-S												
Date Prepared:	08/19/2015 1231h												
Magnesium	4,190	mg/kg-dry	SW6010C	15.4	146	1,465	3120	72.8	75 - 125				3
Potassium	3,520	mg/kg-dry	SW6010C	29.7	146	1,465	2540	67.1	75 - 125				3
Sodium	1,610	mg/kg-dry	SW6010C	11.3	146	1,465	277	91.1	75 - 125				
Lab Sample ID: 1508303-001AMS													
Date Analyzed:	08/20/2015 2134h												
Test Code:	6020-S												
Date Prepared:	08/19/2015 1231h												
Antimony	29.9	mg/kg-dry	SW6020A	0.426	4.69	29.29	0	102	75 - 125				
Arsenic	33.0	mg/kg-dry	SW6020A	0.0949	2.93	29.29	2.78	103	75 - 125				
Barium	293	mg/kg-dry	SW6020A	3.17	5.27	29.29	297	-15.1	75 - 125				2
Beryllium	31.8	mg/kg-dry	SW6020A	0.00697	2.34	29.29	0.451	107	75 - 125				
Cadmium	29.7	mg/kg-dry	SW6020A	0.0197	0.996	29.29	0.17	101	75 - 125				
Chromium	38.2	mg/kg-dry	SW6020A	2.85	11.7	29.29	9.53	97.9	75 - 125				
Cobalt	32.0	mg/kg-dry	SW6020A	0.178	1.58	29.29	3.19	98.3	75 - 125				
Copper	35.3	mg/kg-dry	SW6020A	1.80	18.2	29.29	6.35	98.7	75 - 125				
Lead	36.5	mg/kg-dry	SW6020A	3.51	7.62	29.29	6.2	103	75 - 125				
Manganese	227	mg/kg-dry	SW6020A	0.785	4.69	29.29	223	12.9	75 - 125				3
Molybdenum	30.8	mg/kg-dry	SW6020A	0.417	23.4	29.29	0	105	75 - 125				
Nickel	33.8	mg/kg-dry	SW6020A	2.56	23.4	29.29	4.96	98.6	75 - 125				
Selenium	28.6	mg/kg-dry	SW6020A	0.639	9.96	29.29	0	97.5	75 - 125				
Silver	29.6	mg/kg-dry	SW6020A	0.0262	1.76	29.29	0.0243	101	75 - 125				
Thallium	29.9	mg/kg-dry	SW6020A	0.00592	4.69	29.29	0.131	102	75 - 125				
Vanadium	50.1	mg/kg-dry	SW6020A	0.603	11.7	29.29	22.9	93.0	75 - 125				
Zinc	177	mg/kg-dry	SW6020A	5.92	58.6	146.5	26.7	103	75 - 125				



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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1508303
Project: Gold King Mine - San Juan River Sampling

Contact: Lenora Sullivan
Dept: ME
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1508303-001AMS	Date Analyzed: 08/24/2015 1128h												
Test Code: HG-S-7471B	Date Prepared: 08/22/2015 1530h												
Mercury	0.601	mg/kg-dry	SW7471B	0.00185	0.0549	0.5485	0.00284	109	80 - 120				

² - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.

³ - Matrix spike recoveries and/or high RPDs indicate suspected sample non-homogeneity. The method is in control as indicated by the LCS.



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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1508303
Project: Gold King Mine - San Juan River Sampling

Contact: Lenora Sullivan
Dept: ME
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1508303-001AMSD													
Date Analyzed:	08/25/2015 1052h												
Test Code:	6010C-S												
Date Prepared:	08/19/2015 1231h												
Aluminum	10,900	mg/kg-dry	SW6010C	25.6	149	149.0	10600	185	75 - 125	9630	12.1	20	2
Calcium	11,900	mg/kg-dry	SW6010C	35.3	1,490	1,490	10500	97.5	75 - 125	10900	9.37	20	
Iron	9,760	mg/kg-dry	SW6010C	17.0	74.5	149.0	9630	86.3	75 - 125	8630	12.3	20	
Lab Sample ID: 1508303-001AMSD													
Date Analyzed:	08/25/2015 1114h												
Test Code:	6010C-S												
Date Prepared:	08/19/2015 1231h												
Magnesium	4,590	mg/kg-dry	SW6010C	15.6	149	1,490	3120	98.9	75 - 125	4190	9.24	20	
Potassium	3,900	mg/kg-dry	SW6010C	30.2	149	1,490	2540	91.4	75 - 125	3520	10.2	20	
Sodium	1,710	mg/kg-dry	SW6010C	11.5	149	1,490	277	96.0	75 - 125	1610	5.76	20	
Lab Sample ID: 1508303-001AMSD													
Date Analyzed:	08/20/2015 2138h												
Test Code:	6020-S												
Date Prepared:	08/19/2015 1231h												
Antimony	30.9	mg/kg-dry	SW6020A	0.433	4.77	29.79	0	104	75 - 125	29.9	3.34	20	
Arsenic	33.6	mg/kg-dry	SW6020A	0.0965	2.98	29.79	2.78	103	75 - 125	33	1.69	20	
Barium	302	mg/kg-dry	SW6020A	3.22	5.36	29.79	297	17.7	75 - 125	293	3.26	20	2
Beryllium	32.2	mg/kg-dry	SW6020A	0.00709	2.38	29.79	0.451	106	75 - 125	31.8	1.24	20	
Cadmium	30.4	mg/kg-dry	SW6020A	0.0201	1.01	29.79	0.17	101	75 - 125	29.7	2.11	20	
Chromium	40.0	mg/kg-dry	SW6020A	2.90	11.9	29.79	9.53	102	75 - 125	38.2	4.59	20	
Cobalt	33.2	mg/kg-dry	SW6020A	0.181	1.61	29.79	3.19	101	75 - 125	32	3.83	20	
Copper	36.5	mg/kg-dry	SW6020A	1.83	18.5	29.79	6.35	101	75 - 125	35.3	3.48	20	
Lead	37.8	mg/kg-dry	SW6020A	3.57	7.75	29.79	6.2	106	75 - 125	36.5	3.53	20	
Manganese	265	mg/kg-dry	SW6020A	0.798	4.77	29.79	223	141	75 - 125	227	15.6	20	2
Molybdenum	31.7	mg/kg-dry	SW6020A	0.424	23.8	29.79	0	106	75 - 125	30.8	2.84	20	
Nickel	35.7	mg/kg-dry	SW6020A	2.60	23.8	29.79	4.96	103	75 - 125	33.8	5.35	20	
Selenium	29.7	mg/kg-dry	SW6020A	0.649	10.1	29.79	0	99.8	75 - 125	28.6	4.00	20	
Silver	30.5	mg/kg-dry	SW6020A	0.0267	1.79	29.79	0.0243	102	75 - 125	29.6	2.95	20	
Thallium	30.7	mg/kg-dry	SW6020A	0.00602	4.77	29.79	0.131	103	75 - 125	29.9	2.59	20	
Vanadium	54.0	mg/kg-dry	SW6020A	0.614	11.9	29.79	22.9	104	75 - 125	50.1	7.43	20	
Zinc	185	mg/kg-dry	SW6020A	6.02	59.6	149.0	26.7	107	75 - 125	177	4.52	20	



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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1508303
Project: Gold King Mine - San Juan River Sampling

Contact: Lenora Sullivan
Dept: ME
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1508303-001AMSD	Date Analyzed: 08/24/2015 1129h												
Test Code: HG-S-7471B	Date Prepared: 08/22/2015 1530h												
Mercury	0.516	mg/kg-dry	SW7471B	0.00160	0.0473	0.4729	0.00284	109	80 - 120	0.601	15.2	20	

² - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.

Corrections made to collection times for
sample #'s 1-3 -RW

WORK ORDER Summary

Work Order: **1508303** Page 1 of 2

Client: Utah Division of Water Quality

Due Date: 8/31/2015

Client ID: UTD200

Contact: Lenora Sullivan

Project: Gold King Mine - San Juan River Sampling

QC Level: II+ MDL

WO Type: Standard

Comments: QC2+. Evaluated down to the MDL. Include EDD. CC: Jim Harris and Trisha Johnson;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1508303-001A	San Juan R at Sand Island (4953250)	8/15/2015 1131h	8/15/2015 2120h	3051A-ICPMS-PR	Solid	<input type="checkbox"/>	DF - MET/Hg
				6010C-S		<input checked="" type="checkbox"/>	DF - MET/Hg
				<i>6 SEL Analytes: AL CA FE MG K NA</i>			
				6020-S		<input checked="" type="checkbox"/>	DF - MET/Hg
				<i>17 SEL Analytes: SB AS BA BE CD CR CO CU PB MN MO NI SE AG TL V ZN</i>			
				HARD-2340B		<input type="checkbox"/>	DF - MET/Hg
				HG-S-7471B		<input type="checkbox"/>	DF - MET/Hg
1508303-002A	San Juan River at Town of Montezuma	8/15/2015 1030h	8/15/2015 2120h	3051A-ICPMS-PR	Solid	<input type="checkbox"/>	DF - MET/Hg
				6010C-S		<input checked="" type="checkbox"/>	DF - MET/Hg
				<i>6 SEL Analytes: AL CA FE MG K NA</i>			
				6020-S		<input checked="" type="checkbox"/>	DF - MET/Hg
				<i>17 SEL Analytes: SB AS BA BE CD CR CO CU PB MN MO NI SE AG TL V ZN</i>			
				HARD-2340B		<input type="checkbox"/>	DF - MET/Hg
				HG-S-7471B		<input type="checkbox"/>	DF - MET/Hg
1508303-003A	San Juan River at US160 Xing in CO (4954000)	8/15/2015 0930h	8/15/2015 2120h	3051A-ICPMS-PR	Solid	<input type="checkbox"/>	DF - MET/Hg
				6010C-S		<input checked="" type="checkbox"/>	DF - MET/Hg
				<i>6 SEL Analytes: AL CA FE MG K NA</i>			
				6020-S		<input checked="" type="checkbox"/>	DF - MET/Hg
				<i>17 SEL Analytes: SB AS BA BE CD CR CO CU PB MN MO NI SE AG TL V ZN</i>			
				HARD-2340B		<input type="checkbox"/>	DF - MET/Hg
				HG-S-7471B		<input type="checkbox"/>	DF - MET/Hg
	HG-S-PR-B		<input type="checkbox"/>	DF - MET/Hg			
	PMOIST		<input type="checkbox"/>	DF - MET/Hg			

WORK ORDER Summary

Work Order: **1508303** Page 2 of 2

Client: Utah Division of Water Quality

Due Date: 8/31/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1508303-004A	San Juan Riv @ Clay Hill	8/15/2015 1430h	8/15/2015 2120h	3051A-ICPMS-PR	Solid	<input type="checkbox"/>	DF - MET/Hg	1
				6010C-S		<input checked="" type="checkbox"/>	DF - MET/Hg	
				6 SEL Analytes: AL CA FE MG K NA				
				6020-S		<input checked="" type="checkbox"/>	DF - MET/Hg	
				17 SEL Analytes: SB AS BA BE CD CR CO CU PB MN MO NI SE AG TL V ZN				
				HARD-2340B		<input type="checkbox"/>	DF - MET/Hg	
				HG-S-7471B		<input type="checkbox"/>	DF - MET/Hg	
				HG-S-PR-B		<input type="checkbox"/>	DF - MET/Hg	
				PMOIST		<input type="checkbox"/>	DF - MET/Hg	

American West Analytical Laboratories

Chain of Custody

Client: **Utah Division of Water Quality**
 Address: **PO Box 144870**
Salt Lake City, UT 84114-4870

Project Name: **Gold King Mine - San Juan River Sampling**
 PO#:

Contact: **Lenora Sullivan**
 Phone: **801-536-4367**
 Fax: **801-536-4301**

Email: **lenoras@utah.gov**
jamesharris@utah.gov (please copy on results)

Per Trisha Johnson
 8/15/15

Lab Sample Set # **1508303**

Page 1 of 1

Standard
 TAT

QC Level: 2+

TAT - ASAP

Sample ID:	Date Sampled	Time	# of Containers	Sample Matrix	Trace Chemistry: Pb, Alkalinity, Anions, TSS, Conductivity	Total TAL Metals + Mo + Hardness (200.7): Al, Ca, Fe, K, Mg, Na, 200.8: Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Mo, Ni, Ag, Se, Ti, V, Zn, 245.1: Hg	Disposible Trace Metals + Mo + Hardness (200.7): Al, Ca, Fe, 200.8: Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Mo, Ni, Ag, Se, Ti, V, Zn, 245.1: Hg	Nutrients: Phosphate, Nitrate & Nitrite	Comments	Laboratory Use Only
SAN JUAN R AT MEXICAN HAT US163 XING (4953000)	8/15/15	9:42	1	9						Samples Were: 1. Shipped or hand delivered <input checked="" type="checkbox"/> 2. Ambient or Chilled <input checked="" type="checkbox"/> 3. Temperature <u>2.9</u> 4. Received Broken/Leaking (Improperly Sealed) <input type="checkbox"/> Y <input checked="" type="checkbox"/> N 5. Properly Preserved <input type="checkbox"/> Y <input checked="" type="checkbox"/> N 6. Received Within Holding Times <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
SAN JUAN R AT SAND ISLAND (4953250)	11:31 8/15/15	10:30	1	9					Dissolved Metals samples have been field filtered. Samples collected from river monitoring following a mine waste dump release. Please flag any concentrations detected less than RL and at or greater than the MDL with a J qualifier. Please include EDD.	COC Tape Was: 1. Present on Outer Package <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA 2. Unbroken on Outer Package <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA 3. Present on Sample <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA 4. Unbroken on Sample <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA
San Juan River at Town of Montezuma	10:30 8/15/15	11:21	1	9						Discrepancies Between Sample Labels and COC Record? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
SAN JUAN R AT US160 XING IN CO (4954000)	09:43 8/15/15	12:04	1	9						
SAN JUAN R @ CLAY HILL	8/15/15	14:30	1	9						
Sample collection times updated 8/19/2015 per email from Trisha Johnson -RW										

Special Instructions:

Relinquished by: Signature <i>[Signature]</i>	Date: 8/15/15	Received by: Signature <i>[Signature]</i>	Date: 8/15/15
Print Name: James Harris	Time: 18:41	Print Name: Kent Harrison	Time: 18:41
Relinquished by: Signature <i>[Signature]</i>	Date: 8/15/15	Received by: Signature <i>[Signature]</i>	Date: 8/15/15
Print Name: Kent Harrison	Time: 21:05	Print Name: Lenora Sullivan	Time: 21:05

Relinquished by:
 Lenora Sullivan 21:20 8/15/15
 Lenora Sullivan

Received by: *[Signature]*
 Kyle F. Gross 21:20 8/15/15