



Tuesday, July 26, 2011

Phil Cavendor  
AUC, LLC  
1536 Cole Blvd  
Suite 330  
Lakewood, CO 80401

RE: Reno Creek Project  
Order

r No.: S1106318

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples PZM14-002-110615 on June 15, 2011.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Lacey Ketron  
Project Manager

xc: File  
Encl.



Date: 7/26/2011

**CLIENT:** AUC LLC  
**Project:** Reno Creek Project  
**Lab Order:** S1106318

**CASE NARRATIVE**  
**Report ID:** S1106318001

Sample PZM14-002-110615 was received on June 15, 2011.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

- U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
- "Standard Methods For The Examination of Water and Wastewater", 20th ed., 1998
- Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition
- Methods indicated with the Monday, March 12, 2007 Federal Register, 40 CFR Part 122, 136 et al.

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

For the purposes of this report, the Reporting Limit (RL) is the Practical Quantitation Limit (PQL).

Radon 222 was analyzed through ALS Laboratory Group Certification #: CO00078.

Qualifiers by sample

- S1106179-001 - Radiochemistry/Gross Beta (Dissolved) - RPD outside accepted recovery limits
- S1106318-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- LCS-R71610 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- MB-R71610 - General Parameters/Radon-222 - Analyzed by a contract laboratory

Reviewed by:

Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported 7/26/2011
Report ID S1106318001

ProjectName: Reno Creek Project
Lab ID: S1106318-001
ClientSample ID: PZM14-002-110615
COC: RC 08296

WorkOrder: S1106318
CollectionDate: 6/15/2011 10:00:00 AM
DateReceived: 6/15/2011 4:33:00 PM
FieldSampler: TN
Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include pH Reading, Conductivity Reading, Turbidity Reading, Dissolved Oxygen Reading, Temperature Reading, Oxygen Reduction Potential Reading, Purge Rate Reading, and Water Level Reading.

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: \* Value exceeds Maximum Contaminant Level
C Calculated Value
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
M Value exceeds Monthly Ave or MCL
O Outside the Range of Dilutions

Reviewed by: [Signature]
Lacey Ketron, Water Lab Supervisor



## Sample Analysis Report

**Company:** AUC LLC  
1536 Cole Blvd  
Lakewood, CO 80401

**Date Reported:** 7/26/2011  
**Report ID:** S1106318001

**ProjectName:** Reno Creek Project  
**Lab ID:** S1106318-001  
**ClientSample ID:** PZM14-002-110615  
**COC:** RC 08296

**WorkOrder:** S1106318  
**CollectionDate:** 6/15/2011 10:00:00 AM  
**DateReceived:** 6/15/2011 4:33:00 PM  
**FieldSampler:** TN  
**Matrix:** Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Anions/Cations</b>							
Alkalinity, Total (As CaCO3)	106	mg/L		5	SM 2320B	6/17/2011 5:41:47 PM	AMB
Alkalinity, Bicarbonate as HCO3	130	mg/L		5	SM 2320B	6/17/2011 5:41:47 PM	AMB
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	6/17/2011 5:41:47 PM	AMB
Chloride	5	mg/L		1	EPA 300.0	6/30/2011 12:23:00 AM	KO
Fluoride	0.2	mg/L		0.1	SM 4500FC	6/17/2011 5:41:47 PM	AMB
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	6/22/2011 6:36:00 PM	MEL
Sulfate	433	mg/L		1	EPA 300.0	6/30/2011 12:23:00 AM	KO
Calcium	57	mg/L		1	EPA 200.7	6/30/2011 3:16:48 PM	DG
Magnesium	12	mg/L		1	EPA 200.7	6/30/2011 3:16:48 PM	DG
Potassium	7	mg/L		1	EPA 200.7	6/30/2011 3:16:48 PM	DG
Sodium	169	mg/L		1	EPA 200.7	6/30/2011 3:16:48 PM	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	6/17/2011 12:20:00 PM	LJK
Silica as SiO2	9	mg/L		1	EPA 200.7	6/17/2011 2:23:45 PM	DG
<b>General Parameters</b>							
pH	8.2	s.u.		0.1	SM 4500 H B	6/17/2011 5:41:47 PM	AMB
Electrical Conductivity	873	µmhos/cm		5	SM 2510B	6/17/2011 5:41:47 PM	AMB
Total Dissolved Solids (180)	790	mg/L		10	SM 2540	6/20/2011 1:20:00 PM	JF
<b>Data Quality</b>							
Cation Sum	11.38	meq/L		0.01	SM 1030E	7/11/2011 8:50:36 AM	LJK
Anion Sum	11.29	meq/L		0.01	SM 1030E	7/11/2011 8:50:36 AM	LJK
Cation-Anion Balance (± 5%)	0.39	%		0.01	SM 1030E	7/11/2011 8:50:36 AM	LJK
Solids, Total Dissolved (Calc)	750	mg/L		10	SM 1030E	7/11/2011 8:50:36 AM	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.05	dec. %		0.01	Calculation	7/11/2011 8:57:13 AM	LJK

These results apply only to the samples tested.

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Reviewed by:   
Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported 7/26/2011
Report ID S1106318001

ProjectName: Reno Creek Project
Lab ID: S1106318-001
ClientSample ID: PZM14-002-110615
COC: RC 08296

WorkOrder: S1106318
CollectionDate: 6/15/2011 10:00:00 AM
DateReceived: 6/15/2011 4:33:00 PM
FieldSampler: TN
Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Metals - Dissolved (Aluminum, Arsenic, Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Uranium, Vanadium, Zinc) and Metals - Suspended (Uranium) and Metals - Total (Iron, Manganese).

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Reviewed by: [Signature]
Lacey Ketron, Water Lab Supervisor



## Sample Analysis Report

**Company:** AUC LLC  
1536 Cole Blvd  
Lakewood, CO 80401

**Date Reported:** 7/26/2011  
**Report ID:** S1106318001

**ProjectName:** Reno Creek Project  
**Lab ID:** S1106318-001  
**ClientSample ID:** PZM14-002-110615  
**COC:** RC 08296

**WorkOrder:** S1106318  
**CollectionDate:** 6/15/2011 10:00:00 AM  
**DateReceived:** 6/15/2011 4:33:00 PM  
**FieldSampler:** TN  
**Matrix:** Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Radionuclides - Dissolved</b>							
Gross Alpha	30.3	pCi/L		2	SM 7110B	6/29/2011 8:09:18 PM	SH
Gross Alpha Precision (±)	3.1	pCi/L			SM 7110B	6/29/2011 8:09:18 PM	SH
Gross Beta	15.3	pCi/L		4	SM 7110B	6/29/2011 8:09:18 PM	SH
Gross Beta Precision (±)	2.6	pCi/L			SM 7110B	6/29/2011 8:09:18 PM	SH
Lead 210	2.8	pCi/L		1	OTW01	7/6/2011 11:33:38 AM	SH
Lead 210 Precision (±)	0.5	pCi/L			OTW01	7/6/2011 11:33:38 AM	SH
Polonium 210	ND	pCi/L		1	OTW01	7/1/2011 4:01:18 PM	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	7/1/2011 4:01:18 PM	SH
Radium 226	3.1	pCi/L		0.2	SM 7500-Ra B	7/5/2011 5:51:00 PM	SH
Radium 226 Precision (±)	0.2	pCi/L			SM 7500-Ra B	7/5/2011 5:51:00 PM	SH
Radium 228	1.2	pCi/L		1	Ra-05	7/22/2011 4:12:00 PM	SH
Radium 228 Precision (±)	1.0	pCi/L			Ra-05	7/22/2011 4:12:00 PM	SH
Thorium 230	ND	pCi/L		0.2	ACW10	6/28/2011 6:18:00 AM	SH
Thorium 230 Precision (±)	NA	pCi/L			ACW10	6/28/2011 6:18:00 AM	SH
<b>Radionuclides - Suspended</b>							
Lead 210	3.8	pCi/L		1	OTW01	7/8/2011 1:08:09 PM	SH
Lead 210 Precision (±)	0.5	pCi/L			OTW01	7/8/2011 1:08:09 PM	SH
Polonium 210	ND	pCi/L		1	OTW01	7/6/2011 7:13:49 PM	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	7/6/2011 7:13:49 PM	SH
Radium 226	ND	pCi/L		0.2	SM 7500-Ra B	7/6/2011 10:32:00 AM	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500-Ra B	7/6/2011 10:32:00 AM	SH
Thorium 230	ND	pCi/L		0.2	ACW10	7/8/2011 7:56:00 AM	SH
Thorium 230 Precision (±)	NA	pCi/L			ACW10	7/8/2011 7:56:00 AM	SH
<b>Radionuclides - Total</b>							
Radon 222	3900	pCi/L	L	50	SM7500-RN	6/16/2011	LJK
Radon 222 Precision (±)	450	pCi/L	L		SM7500-RN	6/16/2011	LJK

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Reviewed by:   
Lacey Ketron, Water Lab Supervisor



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1106318  
**Project:** Reno Creek Project

**Date:** 7/26/2011  
**Report ID:** S1106318001

**Alkalinity**

Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 71215	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	06/17/11 13:45	Alkalinity, Total (As CaCO3)	ND	5					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 71215	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	06/17/11 13:36	Alkalinity, Total (As CaCO3)	597	5	607		98.5	90 - 110	

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 71215	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106354-001B	06/17/11 22:54	Alkalinity, Bicarbonate as HCO3	243	5	240	1.33		20	
		Alkalinity, Carbonate as CO3	ND	5	ND			20	
		Alkalinity, Total (As CaCO3)	205	5	203	0.835		20	

**Conductivity**

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 71215	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	06/17/11 13:45	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 71215	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	06/17/11 13:36	Electrical Conductivity	984	5	1000		98.3	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 71215	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106354-001B	06/17/11 22:54	Electrical Conductivity	509	5	508	0.197		20	

- Qualifiers:**
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### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1106318  
**Project:** Reno Creek Project

**Date:** 7/26/2011  
**Report ID:** S1106318001

**Dissolved Mercury by EPA 245.1 - Water**

Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 71344	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	06/21/11 11:13	Mercury	ND	0.001					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 71344	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	06/21/11 11:11	Mercury	0.002	0.001	0.002		98.7	85 - 115	

Sample Type **MS** Units: mg/L

Sample ID	RunNo: 71344	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106318-001E	06/21/11 11:35	Mercury	0.002	0.001	0.00244	ND	93.5	70 - 130	

Sample Type **MSD** Units: mg/L

Sample ID	RunNo: 71344	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1106318-001E	06/21/11 11:37	Mercury	0.002	0.001	0.002	2.47	95.9	20	

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 71344	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106318-001E	06/21/11 11:34	Mercury	ND	0.001	ND			20	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - O Outside the Range of Dilutions
  - S Spike Recovery outside accepted recovery limits
  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits



**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** AUC LLC  
**Work Order:** S1106318  
**Project:** Reno Creek Project

**Date:** 7/26/2011  
**Report ID:** S1106318001

**Dissolved Metals by ICP - EPA 200.7 - Water**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 71212	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	06/17/11 13:39	Aluminum	ND	0.1					
		Boron	ND	0.1					
		Chromium	ND	0.01					
		Iron	ND	0.05					
		Manganese	ND	0.02					
		Nickel	ND	0.01					
		Zinc	ND	0.01					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 71212	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	06/17/11 13:41	Aluminum	1.0	0.1	1		100	85 - 115	
		Boron	1.0	0.1	1		99.4	85 - 115	
		Chromium	1.04	0.01	1		104	85 - 115	
		Iron	0.99	0.05	1		99.4	85 - 115	
		Manganese	1.01	0.02	1		101	85 - 115	
		Nickel	1.00	0.01	1		99.5	85 - 115	
		Zinc	0.99	0.01	1		98.6	85 - 115	

Sample Type **MS** Units: mg/L

Sample ID	RunNo: 71212	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106357-002CS	06/17/11 14:42	Aluminum	1.7	0.1	0.5	1.3	82.3	70 - 130	
		Boron	0.6	0.1	0.5	ND	104	70 - 130	
		Chromium	0.53	0.01	0.5	ND	106	70 - 130	
		Iron	1.06	0.05	0.5	0.59	94.6	70 - 130	
		Manganese	0.53	0.02	0.5	ND	104	70 - 130	
		Nickel	0.50	0.01	0.5	ND	101	70 - 130	
		Zinc	0.51	0.01	0.5	ND	102	70 - 130	

Sample Type **MSD** Units: mg/L

Sample ID	RunNo: 71212	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1106357-002CSD	06/17/11 14:44	Aluminum	1.7	0.1	1.7	1.22		20	
		Boron	0.6	0.1	0.6	1.98		20	
		Chromium	0.51	0.01	0.53	3.20		20	
		Iron	1.05	0.05	1.06	1.20		20	
		Manganese	0.52	0.02	0.53	2.30		20	
		Nickel	0.50	0.01	0.50	1.57		20	
		Zinc	0.50	0.01	0.51	3.15		20	

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
L	Analyzed by a contract laboratory	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits		



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1106318  
**Project:** Reno Creek Project

**Date:** 7/26/2011  
**Report ID:** S1106318001

**Dissolved Metals by ICP - EPA 200.7 - Water**

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 71212	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106357-001CD	06/17/11 14:37	Aluminum	ND	0.1	ND			20	
		Boron	ND	0.1	ND			20	
		Chromium	ND	0.01	ND			20	
		Iron	0.08	0.05	0.08	2.52		20	
		Manganese	ND	0.02	ND			20	
		Nickel	ND	0.01	ND			20	
		Zinc	ND	0.01	ND			20	

**Dissolved Metals by ICPMS EPA 200.8 - Water**

Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 71161	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
INIT CAL BLANK	06/16/11 13:40	Arsenic	ND	0.005					
		Barium	ND	0.5					
		Cadmium	ND	0.002					
		Copper	ND	0.01					
		Lead	ND	0.02					
		Molybdenum	ND	0.02					
		Selenium	ND	0.005					
		Uranium	ND	0.001					
		Vanadium	ND	0.02					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 71161	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	06/16/11 13:48	Arsenic	0.103	0.005	0.1		103	85 - 115	
		Barium	ND	0.5	0.1		102	85 - 115	
		Cadmium	0.103	0.002	0.1		103	85 - 115	
		Copper	0.10	0.01	0.1		99.7	85 - 115	
		Lead	0.10	0.02	0.1		101	85 - 115	
		Molybdenum	0.10	0.02	0.1		103	85 - 115	
		Selenium	0.104	0.005	0.1		104	85 - 115	
		Uranium	0.101	0.001	0.1		101	85 - 115	
		Vanadium	0.10	0.02	0.1		103	85 - 115	

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  - E Value above quantitation range
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### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1106318  
**Project:** Reno Creek Project

**Date:** 7/26/2011  
**Report ID:** S1106318001

**Dissolved Metals by ICPMS EPA 200.8 - Water**

Sample Type **MS** Units: mg/L

Sample ID	RunNo: 71161	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106318-001ES	06/16/11 21:13	Arsenic	1.13	0.005	1.1	ND	102	70 - 130	
		Barium	1.3	0.5	1.1	ND	108	70 - 130	
		Cadmium	1.18	0.002	1.1	ND	107	70 - 130	
		Copper	1.13	0.01	1.1	ND	102	70 - 130	
		Lead	1.07	0.02	1.1	ND	97.4	70 - 130	
		Molybdenum	1.20	0.02	1.1	ND	109	70 - 130	
		Selenium	1.14	0.005	1.1	ND	103	70 - 130	
		Uranium	1.17	0.001	1.1	0.013	105	70 - 130	
		Vanadium	1.13	0.02	1.1	ND	103	70 - 130	

Sample Type **MSD** Units: mg/L

Sample ID	RunNo: 71161	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1106318-001EMSD	06/16/11 21:17	Arsenic	1.12	0.005	1.13	0.291	102	20	
		Barium	1.3	0.5	1.3	0.112	108	20	
		Cadmium	1.19	0.002	1.18	0.678	108	20	
		Copper	1.13	0.01	1.13	0.196	102	20	
		Lead	1.08	0.02	1.07	1.01	98.3	20	
		Molybdenum	1.21	0.02	1.20	0.649	109	20	
		Selenium	1.14	0.005	1.14	0.368	103	20	
		Uranium	1.17	0.001	1.17	0.172	105	20	
		Vanadium	1.15	0.02	1.13	1.57	104	20	

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 71161	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106318-001ED	06/16/11 21:09	Arsenic	ND	0.005	ND			20	
		Barium	ND	0.5	ND			20	
		Cadmium	ND	0.002	ND			20	
		Copper	ND	0.01	ND			20	
		Lead	ND	0.02	ND			20	
		Molybdenum	ND	0.02	ND			20	
		Selenium	ND	0.005	ND			20	
		Uranium	0.014	0.001	0.013	7.90		20	
		Vanadium	ND	0.02	ND			20	

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  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1106318  
**Project:** Reno Creek Project

**Date:** 7/26/2011  
**Report ID:** S1106318001

**Fluoride by SM 4500**

Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 71215	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	06/17/11 13:45	Fluoride	ND	0.1					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 71215	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	06/17/11 13:36	Fluoride	3.0	0.1	2.71		109	90 - 110	

Sample Type **MS** Units: mg/L

Sample ID	RunNo: 71215	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106318-1SPK	06/17/11 17:49	Fluoride	2.6	0.1	2.5	ND	105	80 - 120	

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 71215	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106337-001A	06/17/11 20:07	Fluoride	0.7	0.1	0.7	0		20	

**Gross Alpha, Beta by SM 7110B**

Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 71682	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-174	06/29/11 20:09	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 71682	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-174	06/29/11 20:09	Gross Alpha (Dissolved)	84	2	73.6		115	76.7 - 133	
		Gross Beta (Dissolved)	133	3	126		105	76.7 - 133	

Sample Type **MS** Units: pCi/L

Sample ID	RunNo: 71682	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106128-001GMS	06/29/11 20:09	Gross Alpha (Dissolved)	73	2	73.6	ND	98.8	47.8 - 153	
		Gross Beta (Dissolved)	143	3	126	5	110	47.8 - 153	

Sample Type **DUP** Units: pCi/L

Sample ID	RunNo: 71682	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106179-001GDUP	06/29/11 20:09	Gross Alpha (Dissolved)	5	2	5	1.84		20	
		Gross Beta (Dissolved)	11	4	9	21.3		20	R

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - O Outside the Range of Dilutions
  - S Spike Recovery outside accepted recovery limits
  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1106318  
**Project:** Reno Creek Project

**Date:** 7/26/2011  
**Report ID:** S1106318001

**Anions by ION Chromatography**

Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 71664	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	06/29/11 8:30	Chloride	ND	1					
		Sulfate	ND	1					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 71664	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	06/29/11 8:44	Chloride	30	1	30		99.0	90 - 110	
		Sulfate	143	1	150		95.2	90 - 110	

Sample Type **MS** Units: mg/L

Sample ID	RunNo: 71664	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106538-006ASPK	06/30/11 2:52	Chloride	91	1	80	16	93.7	80 - 120	
		Sulfate	1680	1	640	976	110	80 - 120	

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 71664	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106538-006A	06/30/11 2:37	Chloride	16	1	16	1.29		20	
		Sulfate	970	1	976	0.626		20	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - O Outside the Range of Dilutions
  - S Spike Recovery outside accepted recovery limits
  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1106318  
**Project:** Reno Creek Project

**Date:** 7/26/2011  
**Report ID:** S1106318001

**Cations by ICP (Method 200.7)**

Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 71728	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	06/30/11 13:51	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 71728	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	06/30/11 13:56	Calcium	39	1	40		96.6	85 - 115	
		Magnesium	38	1	40		94.4	85 - 115	
		Potassium	38	1	40		95.5	85 - 115	
		Sodium	40	1	40		99.6	85 - 115	

Sample Type **MS** Units: mg/L

Sample ID	RunNo: 71728	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106647-001AS	06/30/11 16:28	Calcium	654	1	275	423	83.8	70 - 130	
		Magnesium	859	1	275	619	87.4	70 - 130	
		Potassium	350	1	275	19	120	70 - 130	
		Sodium	1260	1	275	1050	75.8	70 - 130	

Sample Type **MSD** Units: mg/L

Sample ID	RunNo: 71728	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1106647-001ASD	06/30/11 16:30	Calcium	665	1	654	1.67	87.8	20	
		Magnesium	876	1	859	1.94	93.5	20	
		Potassium	370	1	350	5.70	128	20	
		Sodium	1270	1	1260	1.37	82.0	20	

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 71728	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106640-001AD	06/30/11 15:53	Calcium	577	1	571	1.08		20	
		Magnesium	622	1	629	1.04		20	
		Potassium	13	1	13	1.17		20	
		Sodium	3370	1	3340	0.878		20	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - O Outside the Range of Dilutions
  - S Spike Recovery outside accepted recovery limits
  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits

**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** AUC LLC  
**Work Order:** S1106318  
**Project:** Reno Creek Project

**Date:** 7/26/2011  
**Report ID:** S1106318001

**Nitrogen, Ammonia (as N)**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 71231	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	06/17/11 11:58	Nitrogen, Ammonia (As N)	ND	0.1					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 71231	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	06/17/11 12:00	Nitrogen, Ammonia (As N)	8.9	0.1	8.93		99.3	90 - 110	

Sample Type **MS** Units: mg/L

Sample ID	RunNo: 71231	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106337-003B	06/17/11 12:29	Nitrogen, Ammonia (As N)	9.2	0.1	10	ND	91.5	80 - 120	

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 71231	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106337-003B	06/17/11 12:28	Nitrogen, Ammonia (As N)	ND	0.1	ND			20	

**Nitrogen, Nitrate-Nitrite (as N)**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 71389	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	06/22/11 14:50	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 71389	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	06/22/11 14:52	Nitrogen, Nitrate-Nitrite (as N)	7.5	0.1	7.69		97.7	90 - 110	

Sample Type **MS** Units: mg/L

Sample ID	RunNo: 71389	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106320-001D	06/22/11 18:44	Nitrogen, Nitrate-Nitrite (as N)	10.8	0.1	10	ND	108	80 - 120	

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 71389	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106320-001D	06/22/11 18:43	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1	ND			20	

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
L	Analyzed by a contract laboratory	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits		



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1106318  
**Project:** Reno Creek Project

**Date:** 7/26/2011  
**Report ID:** S1106318001

**Lead 210 and Polonium 210**

Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 72064	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-173 07/08/11 17:25 Lead 210 (Suspended) ND 1

Sample ID	RunNo: 72065	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-173 07/06/11 17:29 Polonium 210 (Suspended) ND 1

Sample ID	RunNo: 72241	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-173 07/01/11 16:01 Polonium 210 (Dissolved) ND 1

Sample ID	RunNo: 72288	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-173 07/06/11 11:33 Lead 210 (Dissolved) ND 1

Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 72064	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-173 07/08/11 17:25 Lead 210 (Suspended) 12 1 13 95.5 60.3 - 141

Sample ID	RunNo: 72065	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-173 PO 07/06/11 17:29 Polonium 210 (Suspended) 5 1 4.02 123 60.3 - 141

Sample ID	RunNo: 72241	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-173 PO 07/01/11 16:01 Polonium 210 (Dissolved) 5 1 4.02 118 60.3 - 141

Sample ID	RunNo: 72288	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-173 07/06/11 11:33 Lead 210 (Dissolved) 12 1 13 92.8 60.3 - 141

Sample Type **MS** Units: pCi/L

Sample ID	RunNo: 72064	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1106388-002EMS 07/08/11 17:25 Lead 210 (Suspended) 13 1 13 ND 101 62.4 - 132

Sample ID	RunNo: 72065	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1106388-002EMS 07/06/11 17:29 Polonium 210 (Suspended) 9 1 13 ND 71.1 62.4 - 132

Sample ID	RunNo: 72241	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1106380-001FMS 07/01/11 16:01 Polonium 210 (Dissolved) 5 1 13 ND 38.2 62.4 - 132

Sample ID	RunNo: 72288	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1106380-001FMS 07/06/11 11:33 Lead 210 (Dissolved) 12 1 13 ND 93.3 62.4 - 132

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - O Outside the Range of Dilutions
  - S Spike Recovery outside accepted recovery limits
  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits





### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1106318  
**Project:** Reno Creek Project

**Date:** 7/26/2011  
**Report ID:** S1106318001

**Lead 210 and Polonium 210**

Sample Type **DUP** Units: pCi/L

Sample ID	RunNo: 72064	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1106380-003EDUP 07/08/11 13:08 Lead 210 (Suspended) ND 1 ND 20

Sample ID	RunNo: 72065	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1106380-003EDUP 07/06/11 19:13 Polonium 210 (Suspended) ND 1 ND 20

Sample ID	RunNo: 72241	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1106380-003EDUP 07/01/11 16:01 Polonium 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo: 72288	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1106380-003EDUP 07/06/11 11:33 Lead 210 (Dissolved) ND 1 ND 20

**Radium 228**

Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 72547	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-199B 07/22/11 16:12 Radium 228 (Dissolved) ND 1

Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 72547	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-199B 07/22/11 16:12 Radium 228 (Dissolved) 10 1 10.2 94.7 74.9 - 122

Sample Type **MS** Units: pCi/L

Sample ID	RunNo: 72547	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1106318-001GMS 07/22/11 16:12 Radium 228 (Dissolved) 12 1 10.2 1 106 48.4 - 167

Sample Type **DUP** Units: pCi/L

Sample ID	RunNo: 72547	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1106320-001GDUP 07/22/11 16:12 Radium 228 (Dissolved) ND 1 ND 20

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - O Outside the Range of Dilutions
  - S Spike Recovery outside accepted recovery limits
  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1106318  
**Project:** Reno Creek Project

**Date:** 7/26/2011  
**Report ID:** S1106318001

**Radium 226 by SM 7500**

Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 71894	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-178	07/05/11 15:35	Radium 226 (Dissolved)	ND	0.2					

Sample ID	RunNo: 71902	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-180	07/06/11 10:32	Radium 226 (Suspended)	ND	0.2					

Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 71894	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-178	07/05/11 15:35	Radium 226 (Dissolved)	4.3	0.2	5		85.0	62.5 - 125	

Sample ID	RunNo: 71902	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-180	07/06/11 10:32	Radium 226 (Suspended)	4.7	0.2	5		93.0	62.5 - 125	

Sample Type **MS** Units: pCi/L

Sample ID	RunNo: 71894	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106388-004EMS	07/05/11 17:51	Radium 226 (Dissolved)	5.0	0.2	5	ND	101	41.6 - 146	

Sample ID	RunNo: 71902	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106354-001GMS	07/06/11 14:12	Radium 226 (Suspended)	5.0	0.2	5	0.2	95.1	41.6 - 146	

Sample Type **DUP** Units: pCi/L

Sample ID	RunNo: 71894	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106388-006EDUP	07/05/11 17:51	Radium 226 (Dissolved)	0.4	0.2	0.4	2.10		20	

Sample ID	RunNo: 71902	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106249-001GDUP	07/06/11 14:12	Radium 226 (Suspended)	0.3	0.2	0.3	2.42		20	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - O Outside the Range of Dilutions
  - S Spike Recovery outside accepted recovery limits
  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits

**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** AUC LLC  
**Work Order:** S1106318  
**Project:** Reno Creek Project

**Date:** 7/26/2011  
**Report ID:** S1106318001

**Thorium 230 in Water**Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 71725	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-172	06/27/11 8:11	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 72067	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-179	07/07/11 8:38	Thorium 230 (Dissolved)	ND	0.2					
		Thorium 230 (Suspended)	ND	0.2					

Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 71725	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-172	06/27/11 8:11	Thorium 230 (Dissolved)	13	0.2	12		104	67.1 - 134	

Sample ID	RunNo: 72067	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-179	07/07/11 8:38	Thorium 230 (Dissolved)	12	0.2	12		100	67.1 - 134	
		Thorium 230 (Suspended)	12	0.2	12		100	67.1 - 134	

Sample Type **DUP** Units: pCi/L

Sample ID	RunNo: 71725	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106250-001GDUP	06/27/11 12:52	Thorium 230 (Dissolved)	ND	0.2	ND			20	

Sample ID	RunNo: 72067	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106318-001GDUP	07/08/11 7:56	Thorium 230 (Suspended)	ND	0.2	ND			20	

**Radon 222 by SM7500-RN**Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 71610	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R71610	06/16/11 0:00	Radon-222	ND	50					L

Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 71610	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R71610	06/16/11 0:00	Radon-222	22300	100	22500		99.1	75 - 125	L

Sample Type **DUP** Units: pCi/L

Sample ID	RunNo: 71610	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106318-001B	06/16/11 0:00	Radon-222	3770	50	3900	3.33		20	L

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
L	Analyzed by a contract laboratory	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits		

**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** AUC LLC  
**Work Order:** S1106318  
**Project:** Reno Creek Project

**Date:** 7/26/2011  
**Report ID:** S1106318001

**Silica as SiO<sub>2</sub>**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 71213	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	06/17/11 13:39	Silica as SiO <sub>2</sub>	ND	0.1					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 71213	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	06/17/11 13:41	Silica as SiO <sub>2</sub>	2.2	0.1	2.14		100	85 - 115	

**Solids By SM 2540**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 71401	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	06/20/11 13:10	Total Dissolved Solids (180)	ND	10					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 71401	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	06/20/11 13:15	Total Dissolved Solids (180)	220	10	226		95.6	90 - 110	

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 71401	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106337-004A	06/20/11 14:55	Total Dissolved Solids (180)	1320	10	1320	0.302		20	

**Total (200.2) Metals by EPA 200.7 ICP - Water**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 71265	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK 6/17 TOT -5212	06/20/11 18:08	Iron	ND	0.05					
		Manganese	ND	0.02					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 71265	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS 6/17 TOT -5212	06/20/11 18:12	Iron	0.49	0.05	0.5		96.9	85 - 115	
		Manganese	0.19	0.02	0.2		95.9	85 - 115	

Sample Type **MS** Units: mg/L

Sample ID	RunNo: 71265	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106319-001FS	06/20/11 18:31	Iron	1.28	0.05	0.5	0.80	97.3	70 - 130	
		Manganese	0.27	0.02	0.2	0.08	96.0	70 - 130	

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 71265	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106318-001FD	06/20/11 18:19	Iron	1.08	0.05	1.07	1.02		20	
		Manganese	0.08	0.02	0.08	1.01		20	

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
L	Analyzed by a contract laboratory	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits		



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1106318  
**Project:** Reno Creek Project

**Date:** 7/26/2011  
**Report ID:** S1106318001

**Suspended Natural Uranium**

Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 71377	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
INIT CAL BLANK	06/22/11 11:47	Uranium Suspended	ND	0.0003					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 71377	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	06/22/11 18:36	Uranium Suspended	0.0964	0.0003	0.1		96.4	85 - 115	

Sample Type **MS** Units: mg/L

Sample ID	RunNo: 71377	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106318-001HS	06/22/11 18:56	Uranium Suspended	1.11	0.0003	1.1	ND	101	70 - 130	

Sample Type **MSD** Units: mg/L

Sample ID	RunNo: 71377	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1106318-001HMSD	06/22/11 19:00	Uranium Suspended	1.13	0.0003	1.11	1.48	102	20	

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 71377	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106318-001HD	06/22/11 18:44	Uranium Suspended	ND	0.0003	ND			20	

**pH Water**

Sample Type **LCS** Units: s.u.

Sample ID	RunNo: 71215	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	06/17/11 13:36	pH	8.5	0.1	8.63		99.0	90 - 110	

Sample Type **DUP** Units: s.u.

Sample ID	RunNo: 71215	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106354-001B	06/17/11 22:54	pH	8.4	0.1	8.4	0.509		20	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - O Outside the Range of Dilutions
  - S Spike Recovery outside accepted recovery limits
  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits



**Inter-Mountain Labs**  
 Sheridan, WY and Gillette, WY  
 1673 Terra Ave  
 Sheridan, WY 82801 (307) 987-8945  
 INTER-MOUNTAIN LABS (307) 672-9945

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08296

- CHAIN OF CUSTODY RECORD -

Client Name <b>AUC LLC</b>		Project Identification <b>Reno Creek Project</b>		Sampler (Signature/Printed) <i>Tracey M. Anderson</i>		Telephone # <b>265-0696</b>	
Report Address pcavendor@auc-llc.com; mickerson@treccorp.com; jshriver@treccorp.com		Contact Name <i>Tracey M. Anderson</i>		Reno Creek Project		ANALYSES / PARAMETERS	
Invoice Address <b>AUC LLC</b> <i>951 W. Lusk St. Ste 395</i> <i>Casper, WY 82601</i>		Email <i>Tracey@505Cherokee.com</i>		Purchase Order # <i>302-265-0696</i>		Quote #	
ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	REMARKS
1							
2	<i>S1106318-01</i>	<i>9/15/11</i>	<i>10:00 PZM14-002-110615</i>	<i>W213</i>		<i>X</i>	<i>Groundwater</i>
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
LAB COMMENTS <i>Relinquished By (Signature/Printed)</i>				DATE		TIME	
<i>Tracey M. Anderson</i>				<i>9/15/11</i>		<i>16:33</i>	
SHIPPING INFO				MATRIX CODES		TURNAROUND TIMES	
<input type="checkbox"/> UPS		<input checked="" type="checkbox"/> Water		<input checked="" type="checkbox"/> Check desired service		Compliance Monitoring? Program (SDWA, NPDES,...)	
<input type="checkbox"/> Fed Express		<input type="checkbox"/> Soil		<input type="checkbox"/> Standard turnaround		Y / <i>N</i>	
<input type="checkbox"/> US Mail		<input type="checkbox"/> Solid		<input type="checkbox"/> RUSH - 5 Working Days		PWSID / Permit #	
<input type="checkbox"/> Hand Carried		<input type="checkbox"/> Trip Blank		<input type="checkbox"/> URGENT - < 2 Working Days		Chlorinated?	
<input checked="" type="checkbox"/> Other		<input type="checkbox"/> Other		Rush & Urgent Surcharges will be applied		Sample Disposal: Lab <input checked="" type="checkbox"/> Client	
ADDITIONAL REMARKS				COMPLIANCE INFORMATION			