



Friday, November 11, 2011

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

RE: Reno Creek Project  
Orde

r No.: S1109122

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples OM3-002-110907 on September 7, 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: 11/11/2011

**CLIENT:** AUC LLC  
**Project:** Reno Creek Project  
**Lab Order:** S1109122

**CASE NARRATIVE**  
**Report ID:** S1109122001

Sample OM3-002-110907 was received on September 7, 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.

The following samples are out of range for Calculated TDS/TDS Ratio (0.80-1.20) due to possible cause from colloidal solids passing through the filter: OM3-002-110907.

Qualifiers by sample

S1109122-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory  
LCS-R74785 - General Parameters/Radon-222 - Analyzed by a contract laboratory  
MB-R74785 - 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

**ProjectName:** Reno Creek Project  
**Lab ID:** S1109122-001  
**ClientSample ID:** OM3-002-110907  
**COC:** RC 08376

**Date Reported:** 1/11/2011  
**Report ID:** S1109122001

**WorkOrder:** S1109122  
**CollectionDate:** 9/7/2011 1:30:00 PM  
**DateReceived:** 9/7/2011 4:28:00 PM  
**FieldSampler:** TN  
**Matrix:** Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
<b>Field</b>						
pH Reading 1	11.58	s.u.			Field	9/7/2011 1:30:00 PM
pH Reading 2	11.56	s.u.			Field	9/7/2011 1:30:00 PM
pH Reading 3	11.52	s.u.			Field	9/7/2011 1:30:00 PM
Conductivity Reading 1	627	µmhos/cm			Field	9/7/2011 1:30:00 PM
Conductivity Reading 2	625	µmhos/cm			Field	9/7/2011 1:30:00 PM
Conductivity Reading 3	623	µmhos/cm			Field	9/7/2011 1:30:00 PM
Turbidity Reading 1	4.1	NTU			Field	9/7/2011 1:30:00 PM
Turbidity Reading 2	4.2	NTU			Field	9/7/2011 1:30:00 PM
Turbidity Reading 3	4.1	NTU			Field	9/7/2011 1:30:00 PM
Dissolved Oxygen Reading 1	0.60	mg/L			Field	9/7/2011 1:30:00 PM
Dissolved Oxygen Reading 2	0.62	mg/L			Field	9/7/2011 1:30:00 PM
Dissolved Oxygen Reading 3	0.58	mg/L			Field	9/7/2011 1:30:00 PM
Temperature Reading 1	26.65	°C			Field	9/7/2011 1:30:00 PM
Temperature Reading 2	26.04	°C			Field	9/7/2011 1:30:00 PM
Temperature Reading 3	25.68	°C			Field	9/7/2011 1:30:00 PM
Oxygen Reduction Potential Reading	-210.7	mV			Field	9/7/2011 1:30:00 PM
Oxygen Reduction Potential Reading	-213.0	mV			Field	9/7/2011 1:30:00 PM
Oxygen Reduction Potential Reading	-212.6	mV			Field	9/7/2011 1:30:00 PM
Purge Rate Reading 1	300	ml/min			Field	9/7/2011 1:30:00 PM
Purge Rate Reading 2	300	ml/min			Field	9/7/2011 1:30:00 PM
Purge Rate Reading 3	300	ml/min			Field	9/7/2011 1:30:00 PM
Water Level Reading 1	138.29	Ft			Field	9/7/2011 1:30:00 PM
Water Level Reading 2	138.38	Ft			Field	9/7/2011 1:30:00 PM
Water Level Reading 3	138.48	Ft			Field	9/7/2011 1:30:00 PM

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:   
 Lacey Ketron, Water Lab Supervisor



## Sample Analysis Report

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

**Date Reported:** 1/11/2011  
**Report ID:** S1109122001

**ProjectName:** Reno Creek Project  
**Lab ID:** S1109122-001  
**ClientSample ID:** OM3-002-110907  
**COC:** RC 08376

**WorkOrder:** S1109122  
**CollectionDate:** 9/7/2011 1:30:00 PM  
**DateReceived:** 9/7/2011 4:28:00 PM  
**FieldSampler:** TN  
**Matrix:** Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Anions/Cations</b>							
Alkalinity, Total (As CaCO3)	173	mg/L		5	SM 2320B	9/8/2011 7:41:46 PM	AMB
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	9/8/2011 7:41:46 PM	AMB
Alkalinity, Carbonate as CO3	83	mg/L		5	SM 2320B	9/8/2011 7:41:46 PM	AMB
Chloride	4	mg/L		1	EPA 300.0	9/13/2011 1:19:00 AM	ARF
Fluoride	1.1	mg/L		0.1	SM 4500FC	9/8/2011 7:41:46 PM	AMB
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	9/17/2011 4:17:00 PM	MEL
Sulfate	22	mg/L		1	EPA 300.0	9/13/2011 1:19:00 AM	ARF
Calcium	9	mg/L		1	EPA 200.7	9/9/2011 2:27:30 PM	DG
Magnesium	ND	mg/L		1	EPA 200.7	9/9/2011 2:27:30 PM	DG
Potassium	19	mg/L		1	EPA 200.7	9/9/2011 2:27:30 PM	DG
Sodium	77	mg/L		1	EPA 200.7	9/9/2011 2:27:30 PM	DG
Nitrogen, Ammonia (As N)	1.1	mg/L		0.1	EPA 350.1	9/16/2011 6:19:00 PM	MEL
Silica as SiO2	7	mg/L		1	EPA 200.7	9/9/2011 2:27:30 PM	DG
<b>General Parameters</b>							
pH	10.8	s.u.		0.1	SM 4500 H B	9/8/2011 7:41:46 PM	AMB
Electrical Conductivity	528	µmhos/cm		5	SM 2510B	9/8/2011 7:41:46 PM	AMB
Total Dissolved Solids (180)	350	mg/L		10	SM 2540	9/8/2011 3:55:00 PM	TH
<b>Data Quality</b>							
Cation Sum	4.26	meq/L		0.01	SM 1030E	10/11/2011 10:40:06 AM	LJK
Anion Sum	4.10	meq/L		0.01	SM 1030E	10/11/2011 10:40:06 AM	LJK
Cation-Anion Balance (± 5%)	1.93	%		0.01	SM 1030E	10/11/2011 10:40:06 AM	LJK
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	10/11/2011 10:40:06 AM	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.46	dec. %		0.01	Calculation	10/11/2011 10:41:18 AM	LJK

These results apply only to the samples tested.

**RL - Reporting Limit**

**Qualifiers:**

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Reviewed by:   
Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401
ProjectName: Reno Creek Project
Lab ID: S1109122-001
ClientSample ID: OM3-002-110907
COC: RC 08376

Date Reported 1/11/2011
Report ID S1109122001
WorkOrder: S1109122
CollectionDate: 9/7/2011 1:30:00 PM
DateReceived: 9/7/2011 4:28:00 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), Metals - Suspended (Uranium), and Metals - Total (Iron, Manganese).

These results apply only to the samples tested.

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



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401
ProjectName: Reno Creek Project
Lab ID: S1109122-001
ClientSample ID: OM3-002-110907
COC: RC 08376

Date Reported 1/11/2011
Report ID S1109122001
WorkOrder: S1109122
CollectionDate: 9/7/2011 1:30:00 PM
DateReceived: 9/7/2011 4:28:00 PM
FieldSampler: TN
Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Dissolved (Gross Alpha, Gross Beta, Lead 210, Polonium 210, Radium 226, Radium 228, Thorium 230) and Radionuclides - Suspended (Lead 210, Polonium 210, Radium 226, Thorium 230). Total Radon 222 is also listed.

These results apply only to the samples tested.

RL - Reporting Limit

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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
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O Outside the Range of Dilutions

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



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1109122  
**Project:** Reno Creek Project

**Date:** 11/11/2011  
**Report ID:** S1109122001

**Alkalinity**

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

Sample ID	RunNo: 74304	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/08/11 13:51	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 74304	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/08/11 13:42	Alkalinity, Total (As CaCO3)	593	5	601		98.6	90 - 110	

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

Sample ID	RunNo: 74304	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109068-005AD	09/08/11 15:14	Alkalinity, Bicarbonate as HCO3	11	5	11	1.66		20	
		Alkalinity, Carbonate as CO3	ND	5	ND			20	
		Alkalinity, Total (As CaCO3)	9	5	9	1.66		20	

**Conductivity**

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 74304	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/08/11 13:51	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 74304	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/08/11 13:42	Electrical Conductivity	1100	5	1120		97.6	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 74304	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109068-005AD	09/08/11 15:14	Electrical Conductivity	24	5	25	2.03		20	

- Qualifiers:**
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  - 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:** S1109122  
**Project:** Reno Creek Project

**Date:** 11/11/2011  
**Report ID:** S1109122001

**Dissolved Mercury by EPA 245.1 - Water**

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

Sample ID	RunNo: 74493	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	09/13/11 9:35	Mercury	ND	0.001					

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

Sample ID	RunNo: 74493	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	09/13/11 9:33	Mercury	0.002	0.001	0.002		94.3	85 - 115	

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

Sample ID	RunNo: 74493	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109121-001D	09/13/11 9:58	Mercury	0.002	0.001	0.00244	ND	88.9	70 - 130	

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

Sample ID	RunNo: 74493	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109121-001D	09/13/11 10:00	Mercury	0.002	0.001	0.002	1.49	90.3	20	

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

Sample ID	RunNo: 74493	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109121-001D	09/13/11 9:56	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:** S1109122  
**Project:** Reno Creek Project

**Date:** 11/11/2011  
**Report ID:** S1109122001

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

Sample ID	RunNo: 74371	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	09/09/11 13:51	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: 74371	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	09/09/11 13:53	Aluminum	1.0	0.1	1		99.5	85 - 115	
		Boron	1.0	0.1	1		96.9	85 - 115	
		Chromium	1.00	0.01	1		100	85 - 115	
		Iron	0.99	0.05	1		99.4	85 - 115	
		Manganese	1.03	0.02	1		103	85 - 115	
		Nickel	1.02	0.01	1		102	85 - 115	
		Zinc	1.01	0.01	1		101	85 - 115	

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

Sample ID	RunNo: 74371	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109134-002CS	09/09/11 14:55	Aluminum	0.5	0.1	0.5	ND	102	70 - 130	
		Boron	0.6	0.1	0.5	0.2	92.1	70 - 130	
		Chromium	0.49	0.01	0.5	ND	98.0	70 - 130	
		Iron	0.62	0.05	0.5	0.16	91.1	70 - 130	
		Manganese	0.54	0.02	0.5	0.05	97.0	70 - 130	
		Nickel	0.48	0.01	0.5	ND	95.8	70 - 130	
		Zinc	0.49	0.01	0.5	ND	97.7	70 - 130	

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

Sample ID	RunNo: 74371	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109134-002CSD	09/09/11 14:57	Aluminum	0.5	0.1	0.5	2.93	105	20	
		Boron	0.6	0.1	0.6	1.34	93.8	20	
		Chromium	0.50	0.01	0.49	1.53	99.5	20	
		Iron	0.62	0.05	0.62	1.14	92.5	20	
		Manganese	0.55	0.02	0.54	2.12	99.3	20	
		Nickel	0.49	0.01	0.48	2.05	97.7	20	
		Zinc	0.50	0.01	0.49	1.64	99.3	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:** S1109122  
**Project:** Reno Creek Project

**Date:** 11/11/2011  
**Report ID:** S1109122001

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

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

Sample ID	RunNo: 74371	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109134-001CD	09/09/11 14:50	Aluminum	ND	0.1	ND			20	
		Boron	0.2	0.1	0.2	1.18		20	
		Chromium	ND	0.01	ND			20	
		Iron	0.59	0.05	0.60	1.27		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: 74300	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	09/08/11 13:15	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: 74300	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	09/08/11 13:11	Arsenic	0.103	0.005	0.1		103	85 - 115	
		Barium	ND	0.5	0.1		100	85 - 115	
		Cadmium	0.102	0.002	0.1		102	85 - 115	
		Copper	0.10	0.01	0.1		99.2	85 - 115	
		Lead	0.10	0.02	0.1		99.1	85 - 115	
		Molybdenum	0.10	0.02	0.1		104	85 - 115	
		Selenium	0.103	0.005	0.1		103	85 - 115	
		Uranium	0.102	0.001	0.1		102	85 - 115	
		Vanadium	0.10	0.02	0.1		99.5	85 - 115	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
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  - 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:** S1109122  
**Project:** Reno Creek Project

**Date:** 11/11/2011  
**Report ID:** S1109122001

**Dissolved Metals by ICPMS EPA 200.8 - Water**Sample Type **MS** Units: mg/L

Sample ID	RunNo: 74300	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109135-007CS	09/08/11 14:23	Arsenic	1.20	0.005	1.1	ND	109	70 - 130	
		Barium	1.2	0.5	1.1	ND	104	70 - 130	
		Cadmium	1.19	0.002	1.1	ND	108	70 - 130	
		Copper	1.10	0.01	1.1	ND	99.2	70 - 130	
		Lead	1.03	0.02	1.1	ND	93.3	70 - 130	
		Molybdenum	1.28	0.02	1.1	ND	116	70 - 130	
		Selenium	1.20	0.005	1.1	0.005	109	70 - 130	
		Uranium	1.16	0.001	1.1	0.021	104	70 - 130	
		Vanadium	1.16	0.02	1.1	ND	106	70 - 130	

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

Sample ID	RunNo: 74300	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109135-007CMSD	09/08/11 14:27	Arsenic	1.20	0.005	1.20	0.493	109	20	
		Barium	1.2	0.5	1.2	0.865	103	20	
		Cadmium	1.17	0.002	1.19	0.875	107	20	
		Copper	1.10	0.01	1.10	0.0533	99.1	20	
		Lead	1.04	0.02	1.03	1.05	94.3	20	
		Molybdenum	1.29	0.02	1.28	0.826	117	20	
		Selenium	1.20	0.005	1.20	0.0242	109	20	
		Uranium	1.15	0.001	1.16	0.778	103	20	
		Vanadium	1.16	0.02	1.16	0.109	105	20	

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

Sample ID	RunNo: 74300	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109135-007CD	09/08/11 14:19	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	0.006	0.005	0.005	3.86		20	
		Uranium	0.021	0.001	0.021	0.596		20	
		Vanadium	ND	0.02	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:** S1109122  
**Project:** Reno Creek Project

**Date:** 11/11/2011  
**Report ID:** S1109122001

**Fluoride by SM 4500**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 74304	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/08/11 13:51	Fluoride	ND	0.1					

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

Sample ID	RunNo: 74304	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/08/11 13:42	Fluoride	3.0	0.1	2.96		99.7	90 - 110	

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

Sample ID	RunNo: 74304	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109134-003ASPK	09/08/11 21:13	Fluoride	2.7	0.1	2.5	0.3	96.4	80 - 120	

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

Sample ID	RunNo: 74304	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109113-001ED	09/08/11 18:48	Fluoride	0.9	0.1	0.9	0.479		20	

**Gross Alpha, Beta by SM 7110B**Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 76852	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-313	11/10/11 19:51	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 76852	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-313	11/10/11 19:51	Gross Alpha (Dissolved)	84	2	73.6		113	83 - 133	
		Gross Beta (Dissolved)	132	3	126		105	88 - 115	

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

Sample ID	RunNo: 76852	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110248-001FMS	11/10/11 19:51	Gross Alpha (Dissolved)	122	3	147	ND	83.2	48 - 153	
		Gross Beta (Dissolved)	285	4	252	5	111	60 - 140	

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

Sample ID	RunNo: 76852	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110249-001FDUP	11/10/11 19:51	Gross Alpha (Dissolved)	0.9 ± 1.8	3	4	0		20	
		Gross Beta (Dissolved)	4.2 ± 2.3	4	5	13.0		20	

<b>Qualifiers:</b>	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:** S1109122  
**Project:** Reno Creek Project

**Date:** 11/11/2011  
**Report ID:** S1109122001

**Anions by ION Chromatography**

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

Sample ID	RunNo: 74469	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/12/11 10:36	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 74469	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	09/12/11 10:49	Chloride	31	1	30		102	90 - 110	
		Sulfate	146	1	150		97.7	90 - 110	

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

Sample ID	RunNo: 74469	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108615-001ASPK	09/13/11 2:51	Chloride	6	1	5	ND	118	80 - 120	
		Sulfate	61	1	40	24	92.6	80 - 120	

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

Sample ID	RunNo: 74469	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108615-001AD	09/13/11 2:38	Chloride	ND	1	ND			20	
		Sulfate	24	1	24	0.381		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:** S1109122  
**Project:** Reno Creek Project

**Date:** 11/11/2011  
**Report ID:** S1109122001

**Cations by ICP (Method 200.7)**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 74370	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	09/09/11 13:51	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 74370	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	09/09/11 13:56	Calcium	41	1	40		101	85 - 115	
		Magnesium	41	1	40		102	85 - 115	
		Potassium	41	1	40		103	85 - 115	
		Sodium	40	1	40		101	85 - 115	

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

Sample ID	RunNo: 74370	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109135-005AS	09/09/11 15:25	Calcium	1040	1	550	557	88.5	70 - 130	
		Magnesium	1010	1	550	517	90.1	70 - 130	
		Potassium	619	1	550	21	109	70 - 130	
		Sodium	944	1	550	357	107	70 - 130	

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

Sample ID	RunNo: 74370	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109135-005ASD	09/09/11 15:27	Calcium	1040	1	1040	0.493	87.6	20	
		Magnesium	1020	1	1010	0.395	90.9	20	
		Potassium	614	1	619	0.822	108	20	
		Sodium	936	1	944	0.918	105	20	

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

Sample ID	RunNo: 74370	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109135-004AD	09/09/11 15:20	Calcium	344	1	344	0.116		20	
		Magnesium	503	1	504	0.173		20	
		Potassium	13	1	13	0.428		20	
		Sodium	189	1	190	0.351		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:** S1109122  
**Project:** Reno Creek Project

**Date:** 11/11/2011  
**Report ID:** S1109122001

**Nitrogen, Ammonia (as N)**

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

Sample ID	RunNo: 74709	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/16/11 17:34	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 74709	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	09/16/11 17:36	Nitrogen, Ammonia (As N)	10.2	0.1	10		102	90 - 110	

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

Sample ID	RunNo: 74709	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109122-001C	09/16/11 18:21	Nitrogen, Ammonia (As N)	10.8	0.1	10	1.1	97.1	80 - 120	

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

Sample ID	RunNo: 74709	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109122-001C	09/16/11 18:20	Nitrogen, Ammonia (As N)	1.2	0.1	1.1	11.4		20	

**Nitrogen, Nitrate-Nitrite (as N)**

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

Sample ID	RunNo: 74701	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	09/17/11 15:48	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 74701	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	09/17/11 15:50	Nitrogen, Nitrate-Nitrite (as N)	2.4	0.1	2.31		104	90 - 110	

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

Sample ID	RunNo: 74701	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109157-001C	09/17/11 16:23	Nitrogen, Nitrate-Nitrite (as N)	9.8	0.1	10	ND	98.2	80 - 120	

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

Sample ID	RunNo: 74701	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109157-001C	09/17/11 16:22	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1	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:** S1109122  
**Project:** Reno Creek Project

**Date:** 11/11/2011  
**Report ID:** S1109122001

**Lead 210 and Polonium 210**Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 75583	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-272	10/10/11 15:29	Lead 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 75584	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-272	10/10/11 12:50	Polonium 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 75696	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-272	10/11/11 16:16	Lead 210 (Suspended)	ND	1					
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Sample ID	RunNo: 75697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-272	10/11/11 12:40	Polonium 210 (Suspended)	ND	1					
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Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 75583	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-272	10/10/11 15:29	Lead 210 (Dissolved)	15	1	12.9		113	67.6 - 131	
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Sample ID	RunNo: 75584	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-272 PO	10/10/11 12:50	Polonium 210 (Dissolved)	3	1	2.42		119	35.1 - 175	
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Sample ID	RunNo: 75696	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-272	10/11/11 16:16	Lead 210 (Suspended)	14	1	12.9		108	60.3 - 141	
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Sample ID	RunNo: 75697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-272	10/11/11 12:40	Polonium 210 (Suspended)	12	1	12.9		93.2	48.6 - 156	
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Sample Type **MS** Units: pCi/L

Sample ID	RunNo: 75583	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108611-001FMS	10/10/11 15:29	Lead 210 (Dissolved)	20	1	12.9	6	103	66 - 133	
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Sample ID	RunNo: 75584	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108611-001FMS	10/10/11 12:50	Polonium 210 (Dissolved)	9	1	12.9	ND	71.4	20.9 - 160	
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Sample ID	RunNo: 75696	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108611-001FMS	10/11/11 16:16	Lead 210 (Suspended)	22	1	12.9	8	109	62.4 - 132	
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Sample ID	RunNo: 75697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108611-001FMS	10/11/11 12:40	Polonium 210 (Suspended)	14	1	12.9	3	82.1	28 - 173	
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**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:** S1109122  
**Project:** Reno Creek Project

**Date:** 11/11/2011  
**Report ID:** S1109122001

**Lead 210 and Polonium 210**

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

Sample ID	RunNo: 75583	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108582-001FDUP 10/10/11 15:29 Lead 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo: 75584	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108582-001FDUP 10/10/11 12:50 Polonium 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo: 75696	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1109170-002EDUP 10/12/11 9:01 Lead 210 (Suspended) ND 1 ND 20

Sample ID	RunNo: 75697	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1109170-002EDUP 10/11/11 14:56 Polonium 210 (Suspended) ND 1 ND 20

**Radium 228**

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

Sample ID	RunNo: 75719	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-280 10/12/11 17:30 Radium 228 (Dissolved) ND 1

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

Sample ID	RunNo: 75719	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-280 10/12/11 17:30 Radium 228 (Dissolved) 9 1 9.92 95.5 74.9 - 122

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

Sample ID	RunNo: 75719	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1109156-001FMS 10/12/11 17:30 Radium 228 (Dissolved) 9 1 9.92 ND 86.3 48.4 - 167

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

Sample ID	RunNo: 75719	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1109157-001FDUP 10/12/11 17:30 Radium 228 (Dissolved) ND 1 1 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:** S1109122  
**Project:** Reno Creek Project

**Date:** 11/11/2011  
**Report ID:** S1109122001

**Radium 226 by SM 7500**Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 75128	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-264	09/28/11 9:29	Radium 226 (Dissolved)	ND	0.2					

Sample ID	RunNo: 75347	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-271	10/03/11 18:27	Radium 226 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 75128	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-264	09/28/11 9:29	Radium 226 (Dissolved)	5.0	0.2	5.06		98.6	62.5 - 125	

Sample ID	RunNo: 75347	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-271	10/03/11 18:27	Radium 226 (Suspended)	4.8	0.2	5.06		93.9	56.4 - 132	

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

Sample ID	RunNo: 75128	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109169-001EMS	09/28/11 9:29	Radium 226 (Dissolved)	9.4	0.2	5.06	4.8	90.6	41.6 - 146	

Sample ID	RunNo: 75347	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109169-002EMS	10/03/11 18:27	Radium 226 (Suspended)	4.8	0.2	5.06	ND	95.5	51.4 - 135	

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

Sample ID	RunNo: 75128	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109165-001EDUP	09/28/11 9:29	Radium 226 (Dissolved)	0.3	0.2	0.3	14.7		20	

Sample ID	RunNo: 75347	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109162-001EDUP	10/03/11 18:27	Radium 226 (Suspended)	0.8	0.2	0.7	19.8		20	

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

Sample ID	RunNo: 75688	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-277	10/10/11 9:11	Thorium 230 (Dissolved)	ND	0.2					
		Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 75688	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-277	10/10/11 9:11	Thorium 230 (Dissolved)	12	0.2	12		98.8	67.1 - 134	
		Thorium 230 (Suspended)	12	0.2	12		98.8	69.2 - 127	

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

Sample ID	RunNo: 75688	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109090-001FDUP	10/11/11 9:06	Thorium 230 (Suspended)	ND	0.2	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:** S1109122  
**Project:** Reno Creek Project

**Date:** 11/11/2011  
**Report ID:** S1109122001

**Radon 222 by SM7500-RN**

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

Sample ID	RunNo: 74785	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R74785	09/09/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 74785	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R74785	09/09/11 0:00	Radon-222	23100	100	22500		103	75 - 125	L

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

Sample ID	RunNo: 74785	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109122-001A	09/09/11 0:00	Radon-222	570	50	610	7.01		20	L

**Silica as SiO2**

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

Sample ID	RunNo: 74373	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	09/09/11 13:51	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 74373	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	09/09/11 13:53	Silica as SiO2	2.2	0.1	2.14		102	85 - 115	

**Solids By SM 2540**

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

Sample ID	RunNo: 74459	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	09/08/11 13:40	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 74459	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	09/08/11 13:45	Total Dissolved Solids (180)	220	10	226		97.3	90 - 110	

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

Sample ID	RunNo: 74459	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109119-006B	09/08/11 15:15	Total Dissolved Solids (180)	3790	10	4030	5.96		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:** S1109122  
**Project:** Reno Creek Project

**Date:** 11/11/2011  
**Report ID:** S1109122001

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

Sample ID	RunNo: 74452	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-5452	09/12/11 21:37	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 74452	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-5452	09/12/11 19:55	Iron	0.49	0.05	0.5		98.9	85 - 115	
		Manganese	0.20	0.02	0.2		101	85 - 115	

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

Sample ID	RunNo: 74452	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109122-001ES	09/12/11 18:34	Iron	0.63	0.05	0.5	0.14	97.8	70 - 130	
		Manganese	0.21	0.02	0.2	ND	102	70 - 130	

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

Sample ID	RunNo: 74452	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109121-001ED	09/12/11 18:22	Iron	0.30	0.05	0.34	11.0		20	
		Manganese	ND	0.02	ND			20	

**Suspended Natural Uranium**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 74839	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	09/20/11 14:11	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 74839	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	09/20/11 14:07	Uranium Suspended	0.0981	0.0003	0.1		98.1	85 - 115	

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

Sample ID	RunNo: 74839	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109090-001FS	09/20/11 18:35	Uranium Suspended	1.08	0.0003	1.1	ND	98.3	70 - 130	

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

Sample ID	RunNo: 74839	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109090-001FMSD	09/20/11 18:39	Uranium Suspended	1.07	0.0003	1.08	0.655	97.6	20	

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

Sample ID	RunNo: 74839	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109090-001FD	09/20/11 18:31	Uranium Suspended	ND	0.0003	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:** S1109122  
**Project:** Reno Creek Project

**Date:** 11/11/2011  
**Report ID:** S1109122001

**pH Water**

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

Sample ID	RunNo: 74304	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/08/11 13:42	pH	8.6	0.1	8.48		101	90 - 110	

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

Sample ID	RunNo: 74304	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109068-005AD	09/08/11 15:14	pH	7.1	0.1	7.1	0.119		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 82901  
 (307) 672-6945

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08376

- CHAIN OF CUSTODY RECORD -

Client Name <b>AUC LLC</b>		Report Address pcavendor@auc-llc.com; mickerson@treccorp.com; jshriver@treccorp.com		Project Identification Reno Creek Project		Sampler (Signature/Printed) <i>Micki Anderson Trece: Mickerson</i>		Telephone #					
Invoice Address <b>AUC LLC</b>		Contact Name <i>Trece: Mickerson</i>		Email <i>mickerson@treccorp.com</i>		Phone <i>307-265-0696</i>		Purchase Order #					
LAB ID <i>SI109122-001</i>		DATE SAMPLED <i>9/7/11 1530</i>		SAMPLE IDENTIFICATION <i>DM3-002-110907 WJ 13X</i>		Matrix		# of Containers					
ITEM		LAB ID		DATE SAMPLED		SAMPLE IDENTIFICATION		Matrix		# of Containers			
1								See Attached Table 1 (4.14, Guide 8, Radon 222)					
2								See Attached Table 2 (Air Particulate)					
3								See Attached Table 3 (Vegetation)					
4								See Attached Table 4 (Sediment)					
5								See Attached Table 5 (Soil)					
6								See Attached Table 8 WYPDES Discharge					
7								See Attached Table 9 (Blanks)					
8													
9													
10													
11													
12													
13													
14													
LAB COMMENTS		Relinquished By (Signature/Printed)		DATE		TIME		Received By (Signature/Printed)		DATE		TIME	
<i>G.7</i>		<i>Micki Anderson Trece: Mickerson</i>		<i>9/7/11 1545</i>		<i>16:28</i>		<i>Micki Anderson</i>		<i>9/8/11 11:09</i>			
SHIPPING INFO		MATRIX CODES		TURNAROUND TIMES		COMPLIANCE INFORMATION		ADDITIONAL REMARKS					
<input type="checkbox"/> UPS		<input checked="" type="checkbox"/> Water		<input type="checkbox"/> Standard turnaround		<input checked="" type="checkbox"/> Compliance Monitoring? Program (SDWA, NPDES,...)							
<input type="checkbox"/> Fed Express		<input type="checkbox"/> Soil		<input type="checkbox"/> RUSH - 5 Working Days		<input type="checkbox"/> PWSID / Permit #							
<input type="checkbox"/> US Mail		<input type="checkbox"/> Solid		<input type="checkbox"/> URGENT - < 2 Working Days		<input type="checkbox"/> Chlorinated?							
<input type="checkbox"/> Hand Carried		<input type="checkbox"/> Tip Blank		<input type="checkbox"/> Rush & Urgent Surcharges will be applied		<input checked="" type="checkbox"/> Sample Disposal: Lab							
<input checked="" type="checkbox"/> Other		<input type="checkbox"/> Other				<input checked="" type="checkbox"/> Client							