



Tuesday, June 05, 2012

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

RE: Reno Creek Project  
Orde

r No.: S1205138

Dear Phil Cavendor:

Inter-Mountain Laboratories received sample UM3R-004-120508 were received on May 8, 2012.

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: 6/5/2012

**CLIENT:** AUC LLC  
**Project:** Reno Creek Project  
**Lab Order:** S1205138

**CASE NARRATIVE**  
**Report ID:** S1205138001

Sample UM3R-004-120508 was received on May 8, 2012.

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

S1205136-001 - Radiochemistry/Gross Alpha (Dissolved) - RPD outside accepted recovery limits  
S1205138-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory  
LCS-R84003 - General Parameters/Radon-222 - Analyzed by a contract laboratory  
MB-R84003 - 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: S1205138-001
ClientSample ID: UM3R-004-120508
COC: RC 08470

Date Reported 6/5/2012
Report ID S1205138001
WorkOrder: S1205138
CollectionDate: 5/8/2012 8:45:00 AM
DateReceived: 5/8/2012 3:47:00 PM
FieldSampler: TN
Matrix: Water

Comments

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

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

**ProjectName:** Reno Creek Project  
**Lab ID:** S1205138-001  
**ClientSample ID:** UM3R-004-120508  
**COC:** RC 08470

**Date Reported:** 6/5/2012  
**Report ID:** S1205138001

**WorkOrder:** S1205138  
**CollectionDate:** 5/8/2012 8:45:00 AM  
**DateReceived:** 5/8/2012 3:47:00 PM  
**FieldSampler:** TN  
**Matrix:** Water

## Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Anions/Cations</b>							
Alkalinity, Total (As CaCO3)	134	mg/L		5	SM 2320B	05/11/2012 1743	KV
Alkalinity, Bicarbonate as HCO3	23	mg/L		5	SM 2320B	05/11/2012 1743	KV
Alkalinity, Carbonate as CO3	69	mg/L		5	SM 2320B	05/11/2012 1743	KV
Chloride	7	mg/L		1	EPA 300.0	05/10/2012 1831	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	05/11/2012 1743	KV
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/10/2012 1450	MB
Sulfate	456	mg/L		1	EPA 300.0	05/10/2012 1831	AMB
Calcium	35	mg/L		1	EPA 200.7	05/10/2012 1621	DG
Magnesium	ND	mg/L		1	EPA 200.7	05/10/2012 1621	DG
Potassium	26	mg/L		1	EPA 200.7	05/10/2012 1621	DG
Sodium	235	mg/L		1	EPA 200.7	05/10/2012 1621	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/14/2012 1044	MEL
Silica as SiO2	9	mg/L		1	EPA 200.7	05/10/2012 1621	DG
<b>General Parameters</b>							
pH	10.7	s.u.		0.1	SM 4500 H B	05/11/2012 1743	KV
Electrical Conductivity	1180	µmhos/cm		5	SM 2510B	05/11/2012 1743	KV
Total Dissolved Solids (180)	820	mg/L		10	SM 2540	05/10/2012 900	ARF
<b>Data Quality</b>							
Cation Sum	12.63	meq/L		0.01	SM 1030E	05/16/2012 841	LJK
Anion Sum	12.39	meq/L		0.01	SM 1030E	05/16/2012 841	LJK
Cation-Anion Balance (± 5%)	0.93	%		0.01	SM 1030E	05/16/2012 841	LJK
Solids, Total Dissolved (Calc)	840	mg/L		10	SM 1030E	05/16/2012 841	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	0.98	dec. %		0.01	Calculation	05/16/2012 847	LJK

These results apply only to the samples tested.

## RL - Reporting Limit

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- 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

**ProjectName:** Reno Creek Project  
**Lab ID:** S1205138-001  
**ClientSample ID:** UM3R-004-120508  
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**CollectionDate:** 5/8/2012 8:45:00 AM  
**DateReceived:** 5/8/2012 3:47:00 PM  
**FieldSampler:** TN  
**Matrix:** Water

#### Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Metals - Dissolved</b>							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/10/2012 1621	DG
Arsenic	0.001	mg/L		0.001	EPA 200.8	05/09/2012 1636	MS
Barium	ND	mg/L		0.1	EPA 200.8	05/09/2012 1636	MS
Boron	ND	mg/L		0.1	EPA 200.7	05/10/2012 1621	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	05/09/2012 1636	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/10/2012 1621	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/09/2012 1636	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/10/2012 1621	DG
Lead	ND	mg/L		0.01	EPA 200.8	05/09/2012 1636	MS
Manganese	ND	mg/L		0.01	EPA 200.7	05/10/2012 1621	DG
Mercury	ND	mg/L		0.001	EPA 245.1	05/15/2012 1056	BK
Molybdenum	0.03	mg/L		0.01	EPA 200.8	05/09/2012 1636	MS
Nickel	ND	mg/L		0.05	EPA 200.7	05/10/2012 1621	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/09/2012 1636	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/09/2012 1636	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	05/09/2012 1636	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/10/2012 1621	DG
<b>Metals - Suspended</b>							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/11/2012 2042	MS
<b>Metals - Total</b>							
Iron	0.11	mg/L		0.05	EPA 200.7	05/11/2012 1801	AB
Manganese	ND	mg/L		0.01	EPA 200.7	05/11/2012 1801	AB

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- E Value above quantitation range
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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: S1205138-001
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FieldSampler: TN
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Dissolved (Gross Alpha, Lead 210, etc.) and Radionuclides - Suspended (Lead 210, Polonium 210, etc.).

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



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1205138  
**Project:** Reno Creek Project

**Date:** 6/5/2012  
**Report ID:** S1205138001

**Alkalinity**

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

Sample ID	RunNo: 82721	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	05/11/12 11:32	Alkalinity, Total (As CaCO3)	38	5					

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

Sample ID	RunNo: 82721	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	05/11/12 11:19	Alkalinity, Total (As CaCO3)	604	5	601		100	90 - 110	

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

Sample ID	RunNo: 82721	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1205135-008AD	05/11/12 16:18	Alkalinity, Bicarbonate as HCO3	2250	5	2220	0.958		20	
		Alkalinity, Carbonate as CO3	ND	5	ND			20	
		Alkalinity, Total (As CaCO3)	1840	5	1820	0.958		20	

**Conductivity**

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 82721	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	05/11/12 11:32	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 82721	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	05/11/12 11:19	Electrical Conductivity	997	5	1030		96.8	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 82721	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1205135-008AD	05/11/12 16:18	Electrical Conductivity	7130	5	7160	0.419		20	

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  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - ND Not Detected at the Reporting Limit
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### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1205138  
**Project:** Reno Creek Project

**Date:** 6/5/2012  
**Report ID:** S1205138001

**Dissolved Mercury by EPA 245.1 - Water**

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

Sample ID	RunNo: 82789	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	05/15/12 9:18	Mercury	ND	0.001					

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

Sample ID	RunNo: 82789	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	05/15/12 9:16	Mercury	0.002	0.001	0.002		100	85 - 115	

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

Sample ID	RunNo: 82789	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1205135-005B	05/15/12 10:37	Mercury	0.0022	0.0001	0.00244	ND	91.4	70 - 130	

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

Sample ID	RunNo: 82789	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1205135-005B	05/15/12 10:39	Mercury	0.0022	0.0001	0.0022	3.44		20	

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

Sample ID	RunNo: 82789	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1205135-005B	05/15/12 10:35	Mercury	ND	0.0001	ND			20	

- Qualifiers:**
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  - E Value above quantitation range
  - J Analyte detected below quantitation limits
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  - R RPD outside accepted recovery limits





### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1205138  
**Project:** Reno Creek Project

**Date:** 6/5/2012  
**Report ID:** S1205138001

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

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

Sample ID	RunNo: 82657	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	05/10/12 11:39	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: 82657	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	05/10/12 11:42	Aluminum	1.1	0.1	1		105	85 - 115	
		Boron	1.0	0.1	1		101	85 - 115	
		Chromium	1.05	0.01	1		105	85 - 115	
		Iron	1.03	0.05	1		103	85 - 115	
		Manganese	1.07	0.02	1		107	85 - 115	
		Nickel	1.06	0.01	1		106	85 - 115	
		Zinc	1.04	0.01	1		104	85 - 115	

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

Sample ID	RunNo: 82657	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1205140-001DS	05/10/12 16:31	Aluminum	0.5	0.1	0.5	ND	109	70 - 130	
		Boron	0.5	0.1	0.5	ND	99.1	70 - 130	
		Chromium	0.52	0.01	0.5	ND	104	70 - 130	
		Iron	0.53	0.05	0.5	ND	105	70 - 130	
		Manganese	0.56	0.02	0.5	0.03	107	70 - 130	
		Nickel	0.53	0.01	0.5	ND	106	70 - 130	
		Zinc	0.55	0.01	0.5	ND	109	70 - 130	

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

Sample ID	RunNo: 82657	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1205140-001DSD	05/10/12 16:33	Aluminum	0.5	0.1	0.5	1.33		20	
		Boron	0.5	0.1	0.5	1.40		20	
		Chromium	0.50	0.01	0.52	2.99		20	
		Iron	0.51	0.05	0.53	3.02		20	
		Manganese	0.54	0.02	0.56	3.35		20	
		Nickel	0.52	0.01	0.53	2.74		20	
		Zinc	0.53	0.01	0.55	2.38		20	

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  - 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:** S1205138  
**Project:** Reno Creek Project

**Date:** 6/5/2012  
**Report ID:** S1205138001

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

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

Sample ID	RunNo: 82657	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1205139-001DD	05/10/12 16:26	Aluminum	ND	0.1	ND			20	
		Boron	ND	0.1	ND			20	
		Chromium	ND	0.01	ND			20	
		Iron	ND	0.05	ND			20	
		Manganese	0.87	0.02	0.86	1.25		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: 82591	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	05/09/12 14:13	Arsenic	ND	0.005					
		Barium	ND	0.1					
		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: 82591	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	05/09/12 14:08	Arsenic	0.100	0.005	0.1		99.5	85 - 115	
		Barium	ND	0.1	0.1		95.7	85 - 115	
		Cadmium	0.098	0.002	0.1		97.5	85 - 115	
		Copper	0.10	0.01	0.1		101	85 - 115	
		Lead	0.10	0.02	0.1		101	85 - 115	
		Molybdenum	0.10	0.02	0.1		101	85 - 115	
		Selenium	0.100	0.005	0.1		99.8	85 - 115	
		Uranium	0.098	0.001	0.1		98.2	85 - 115	
		Vanadium	0.10	0.02	0.1		99.4	85 - 115	

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### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1205138  
**Project:** Reno Creek Project

**Date:** 6/5/2012  
**Report ID:** S1205138001

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

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

Sample ID	RunNo: 82591	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1205159-004CS	05/09/12 15:47	Arsenic	1.11	0.005	1.1	ND	101	70 - 130	
		Barium	1.1	0.1	1.1	ND	96.9	70 - 130	
		Cadmium	1.05	0.002	1.1	ND	95.4	70 - 130	
		Copper	1.11	0.01	1.1	ND	101	70 - 130	
		Lead	1.08	0.02	1.1	ND	98.2	70 - 130	
		Molybdenum	1.09	0.02	1.1	ND	98.9	70 - 130	
		Selenium	1.09	0.005	1.1	ND	99.4	70 - 130	
		Uranium	1.12	0.001	1.1	0.021	99.6	70 - 130	
		Vanadium	1.14	0.02	1.1	ND	103	70 - 130	

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

Sample ID	RunNo: 82591	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1205159-004CMSD	05/09/12 16:02	Arsenic	1.08	0.005	1.11	2.57		20	
		Barium	1.1	0.1	1.1	0.423		20	
		Cadmium	1.06	0.002	1.05	1.32		20	
		Copper	1.13	0.01	1.11	1.06		20	
		Lead	1.06	0.02	1.08	1.53		20	
		Molybdenum	1.09	0.02	1.09	0.0578		20	
		Selenium	1.06	0.005	1.09	3.33		20	
		Uranium	1.13	0.001	1.12	0.834		20	
		Vanadium	1.10	0.02	1.14	3.29		20	

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

Sample ID	RunNo: 82591	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1205159-004CD	05/09/12 15:42	Arsenic	ND	0.005	ND			20	
		Barium	ND	0.1	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	0.020	0.001	0.021	3.94		20	
		Vanadium	ND	0.02	ND			20	

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**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** AUC LLC  
**Work Order:** S1205138  
**Project:** Reno Creek Project

**Date:** 6/5/2012  
**Report ID:** S1205138001

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

Sample ID	RunNo: 82721	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	05/11/12 11:32	Fluoride	ND	0.1					

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

Sample ID	RunNo: 82721	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	05/11/12 11:19	Fluoride	3.2	0.1	3.18		102	90 - 110	

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

Sample ID	RunNo: 82721	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1205145-001ASPK	05/11/12 19:29	Fluoride	2.6	0.1	2.5	0.4	89.0	80 - 120	

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

Sample ID	RunNo: 82721	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1205135-008AD	05/11/12 16:18	Fluoride	0.5	0.1	0.5	0.514		20	

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

Sample ID	RunNo: 83405	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB12-152	05/31/12 19:58	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 83405	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS12-152	05/31/12 19:58	Gross Alpha (Dissolved)	76	2	69		110	83 - 133	
		Gross Beta (Dissolved)	140	3	126		111	88 - 115	

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

Sample ID	RunNo: 83405	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1205142-001FMS	05/31/12 19:58	Gross Alpha (Dissolved)	69	2	69	ND	99.3	48 - 153	
		Gross Beta (Dissolved)	141	3	126	ND	112	60 - 140	

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

Sample ID	RunNo: 83405	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1205136-001FDUP	05/31/12 19:58	Gross Alpha (Dissolved)	2	2	ND			20	
		Gross Beta (Dissolved)	10	4	11	10.2		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:** S1205138  
**Project:** Reno Creek Project

**Date:** 6/5/2012  
**Report ID:** S1205138001

**Anions by ION Chromatography**

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

Sample ID	RunNo: 82640	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	05/10/12 9:33	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 82640	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	05/10/12 9:03	Sulfate	149	1	150		99.3	90 - 110	

Sample ID	RunNo: 82640	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	05/10/12 9:13	Chloride	28	1	30		94.3	90 - 110	

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

Sample ID	RunNo: 82640	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1205138-001ASPK	05/10/12 18:52	Chloride	239	1	240	7	96.4	80 - 120	
		Sulfate	1190	1	640	456	115	80 - 120	

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

Sample ID	RunNo: 82640	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1205138-001A	05/10/12 18:42	Chloride	7	1	7	3.12		20	
		Sulfate	449	1	456	1.38		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:** S1205138  
**Project:** Reno Creek Project

**Date:** 6/5/2012  
**Report ID:** S1205138001

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

Sample ID	RunNo: 82641	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	05/10/12 11:39	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 82641	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	05/10/12 11:44	Calcium	41	1	40		102	85 - 115	
		Magnesium	41	1	40		103	85 - 115	
		Potassium	41	1	40		103	85 - 115	
		Sodium	42	1	40		104	85 - 115	

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

Sample ID	RunNo: 82641	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1205140-001AS	05/10/12 16:31	Calcium	127	1	50	81	91.8	70 - 130	
		Magnesium	70	1	50	17	106	70 - 130	
		Potassium	65	1	50	7	115	70 - 130	
		Sodium	177	1	50	129	97.0	70 - 130	

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

Sample ID	RunNo: 82641	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1205140-001ASD	05/10/12 16:33	Calcium	125	1	127	1.41		20	
		Magnesium	69	1	70	1.77		20	
		Potassium	64	1	65	1.61		20	
		Sodium	176	1	177	0.538		20	

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

Sample ID	RunNo: 82641	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1205139-001AD	05/10/12 16:26	Calcium	363	1	359	1.10		20	
		Magnesium	63	1	61	3.52		20	
		Potassium	13	1	13	0.260		20	
		Sodium	430	1	434	0.970		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:** S1205138  
**Project:** Reno Creek Project

**Date:** 6/5/2012  
**Report ID:** S1205138001

**Nitrogen, Ammonia (as N)**

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

Sample ID	RunNo: 82736	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	05/14/12 10:17	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 82736	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	05/14/12 10:19	Nitrogen, Ammonia (As N)	10.8	0.1	10		108	90 - 110	

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

Sample ID	RunNo: 82736	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1205141-001C	05/14/12 10:49	Nitrogen, Ammonia (As N)	10.6	0.1	10	ND	106	80 - 120	

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

Sample ID	RunNo: 82736	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1205141-001C	05/14/12 10:48	Nitrogen, Ammonia (As N)	ND	0.1	ND			20	

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

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

Sample ID	RunNo: 82633	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	05/10/12 14:17	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 82633	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	05/10/12 14:19	Nitrogen, Nitrate-Nitrite (as N)	4.4	0.1	4.35		101	90 - 110	

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

Sample ID	RunNo: 82633	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1205141-001C	05/10/12 14:56	Nitrogen, Nitrate-Nitrite (as N)	6.2	0.1	5	1.3	99.1	80 - 120	

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

Sample ID	RunNo: 82633	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1205141-001C	05/10/12 14:55	Nitrogen, Nitrate-Nitrite (as N)	1.3	0.1	1.3	0.797		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:** S1205138  
**Project:** Reno Creek Project

**Date:** 6/5/2012  
**Report ID:** S1205138001

**Lead 210 and Polonium 210**

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

Sample ID	RunNo: 83407	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB12-132 05/25/12 9:42 Lead 210 (Dissolved) ND 1

Sample ID	RunNo: 83408	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB12-132 05/24/12 14:05 Polonium 210 (Dissolved) ND 1

Sample ID	RunNo: 83415	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB12-137 05/29/12 15:32 Lead 210 (Suspended) ND 1

Sample ID	RunNo: 83416	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB12-137 05/29/12 12:51 Polonium 210 (Suspended) ND 1

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

Sample ID	RunNo: 83407	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS12-132 05/25/12 9:42 Lead 210 (Dissolved) 15 1 12.7 120 67.6 - 131

Sample ID	RunNo: 83408	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS12-132 05/24/12 14:05 Polonium 210 (Dissolved) 5 1 5.21 92.5 35.1 - 175

Sample ID	RunNo: 83415	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS12-137 05/29/12 15:32 Lead 210 (Suspended) 14 1 12.7 112 60.3 - 141

Sample ID	RunNo: 83416	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS12-137 05/29/12 12:51 Polonium 210 (Suspended) 7 1 6.83 100 48.6 - 156

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

Sample ID	RunNo: 83407	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1205136-001FMS 05/25/12 9:42 Lead 210 (Dissolved) 13 1 12.5 ND 105 66 - 133

Sample ID	RunNo: 83407	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1205137-001FMS 05/25/12 11:53 Lead 210 (Dissolved) 13 1 12.5 ND 104 66 - 133

Sample ID	RunNo: 83408	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1205136-001FMS 05/24/12 14:05 Polonium 210 (Dissolved) 8 1 12.5 ND 63.9 20.9 - 160

Sample ID	RunNo: 83408	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1205137-001FMS 05/24/12 15:35 Polonium 210 (Dissolved) 17 1 12.5 ND 136 20.9 - 160

- 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:** S1205138  
**Project:** Reno Creek Project

**Date:** 6/5/2012  
**Report ID:** S1205138001

**Lead 210 and Polonium 210**

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

Sample ID	RunNo: 83407	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1205140-001FDUP 05/25/12 11:53 Lead 210 (Dissolved) 2 1 2 5.02 20

Sample ID	RunNo: 83408	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1205140-001FDUP 05/24/12 15:35 Polonium 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo: 83415	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1205136-001FDUP 05/29/12 15:32 Lead 210 (Suspended) 1 1 1 1.65 20

Sample ID	RunNo: 83416	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1205136-001FDUP 05/29/12 12:51 Polonium 210 (Suspended) ND 1 ND 20

**Radium 228**

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

Sample ID	RunNo: 83255	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB12-135 05/18/12 20:13 Radium 228 (Dissolved) ND 1

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

Sample ID	RunNo: 83255	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS12-135 05/18/12 16:42 Radium 228 (Dissolved) 9 1 9.52 95.6 74.9 - 122

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

Sample ID	RunNo: 83255	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1205140-001FMS 05/18/12 16:42 Radium 228 (Dissolved) 11 1 9.52 1 108 48.4 - 167

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

Sample ID	RunNo: 83255	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1205141-001FDUP 05/18/12 16:42 Radium 228 (Dissolved) 4 1 4 1.76 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:** S1205138  
**Project:** Reno Creek Project

**Date:** 6/5/2012  
**Report ID:** S1205138001

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

Sample ID	RunNo: 82998	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB12-135	05/21/12 10:02	Radium 226 (Dissolved)	ND	0.2					

Sample ID	RunNo: 83261	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DMB12-137	05/21/12 15:45	Radium 226 (Dissolved)	ND	0.2					
		Radium 226 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 82998	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS12-135	05/21/12 10:02	Radium 226 (Dissolved)	5.5	0.2	5.06		108	62.5 - 125	

Sample ID	RunNo: 83261	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DLCS12-137	05/21/12 15:45	Radium 226 (Dissolved)	5.1	0.2	5.06		101	62.5 - 125	
		Radium 226 (Suspended)	5.1	0.2	5.06		101	56.4 - 132	

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

Sample ID	RunNo: 82998	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
TAP WATER MS	05/21/12 10:02	Radium 226 (Dissolved)	5.6	0.2	5.06	0.4	104	41.6 - 146	

Sample ID	RunNo: 83261	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1205139-001FMS	05/21/12 15:45	Radium 226 (Suspended)	5.6	0.2	5.06	0.3	104	51.4 - 135	

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

Sample ID	RunNo: 82998	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
TAP WATER MSD	05/21/12 10:02	Radium 226 (Dissolved)	5.5	0.2	5.6	2.86	101	20	

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

Sample ID	RunNo: 83261	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1205137-001FDUP	05/21/12 15:45	Radium 226 (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:** S1205138  
**Project:** Reno Creek Project

**Date:** 6/5/2012  
**Report ID:** S1205138001

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

Sample ID	RunNo: 82986	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB12-131	05/17/12 9:14	Thorium 230 (Dissolved)	ND	0.2					

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

Sample ID	RunNo: 82986	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS12-131	05/17/12 9:14	Thorium 230 (Dissolved)	13	0.2	12		105	67.1 - 134	

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

Sample ID	RunNo: 82986	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1205142-001F DUP	05/17/12 13:19	Thorium 230 (Dissolved)	ND	0.2	ND			20	

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

Sample ID	RunNo: 83113	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB12-135	05/22/12 9:10	Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 83113	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS12-135	05/21/12 9:10	Thorium 230 (Suspended)	15	0.2	12		117	67.1 - 134	

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

Sample ID	RunNo: 83113	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
MDL-2	05/21/12 0:00	Thorium 230 (Suspended)	0.5	0.2	ND	ND	104	30	

**Radon 222 in Water - Total**Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 84003	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R84003	05/09/12 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 84003	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R84003	05/09/12 0:00	Radon-222	21200	100	22500		94.2	75 - 125	L

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

Sample ID	RunNo: 84003	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1205138-001A	05/10/12 0:00	Radon-222	ND	50	ND			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:** S1205138  
**Project:** Reno Creek Project

**Date:** 6/5/2012  
**Report ID:** S1205138001

**Silica as SiO2**

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

Sample ID	RunNo: 82660	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	05/10/12 11:39	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 82660	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	05/10/12 11:42	Silica as SiO2	2.2	0.1	2.14		101	85 - 115	

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

Sample ID	RunNo: 82660	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1205139-001DD	05/10/12 16:26	Silica as SiO2	9.4	0.1	9.4	0.513		20	

**Solids By SM 2540**

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

Sample ID	RunNo: 82727	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	05/09/12 9:00	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 82727	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	05/09/12 9:00	Total Dissolved Solids (180)	220	10	226		95.6	90 - 110	

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

Sample ID	RunNo: 82727	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1205094-002B	05/07/12 9:00	Total Dissolved Solids (180)	1180	10	1170	1.37		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:** S1205138  
**Project:** Reno Creek Project

**Date:** 6/5/2012  
**Report ID:** S1205138001

**Total (200.2) Metals by EPA 200.7 ICP - Water**

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

Sample ID	RunNo: 82724	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-6052	05/11/12 17:37	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 82724	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-6052	05/11/12 17:39	Iron	0.49	0.05	0.5		98.6	85 - 115	
		Manganese	0.20	0.02	0.2		101	85 - 115	

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

Sample ID	RunNo: 82724	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1205137-001ES	05/11/12 17:49	Iron	0.55	0.05	0.5	0.06	97.7	70 - 130	
		Manganese	0.92	0.02	0.2	0.71	107	70 - 130	

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

Sample ID	RunNo: 82724	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1205137-001EMSD	05/11/12 17:51	Iron	0.55	0.05	0.55	0.0181		20	
		Manganese	0.92	0.02	0.92	0.108		20	

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

Sample ID	RunNo: 82724	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1205136-001ED	05/11/12 17:44	Iron	6.07	0.05	6.11	0.630		20	
		Manganese	0.47	0.02	0.48	0.652		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:** S1205138  
**Project:** Reno Creek Project

**Date:** 6/5/2012  
**Report ID:** S1205138001

**Suspended Natural Uranium**

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

Sample ID	RunNo: 82698	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	05/11/12 13:14	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 82698	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	05/11/12 13:09	Uranium Suspended	0.103	0.0003	0.1		103	85 - 115	

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

Sample ID	RunNo: 82698	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1205136-001FS	05/11/12 20:27	Uranium Suspended	1.11	0.0003	1.1	ND	101	70 - 130	

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

Sample ID	RunNo: 82698	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1205136-001FMSD	05/11/12 20:32	Uranium Suspended	1.13	0.0003	1.11	1.82		20	

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

Sample ID	RunNo: 82698	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1205136-001FD	05/11/12 20:22	Uranium Suspended	ND	0.0003	ND			20	

**pH Water**

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

Sample ID	RunNo: 82721	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	05/11/12 11:19	pH	9.1	0.1	8.69		104	90 - 110	

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

Sample ID	RunNo: 82721	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1205135-008AD	05/11/12 16:18	pH	8.0	0.1	8.0	0.125		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) 672-8945

**- CHAIN OF CUSTODY RECORD -**

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08470

Client Name			Project Identification			Sampler (Signature/Printed)			Telephone #											
AUC LLC			Reno Creek Project			Yan Dickerson Tracy Dickerson														
Report Address			Contact Name			ANALYSES / PARAMETERS														
Tracy Dickerson peavendor@auc-llc.com; tracydickerson@treccorp.com; johntiver@treccorp.com			Tracy Dickerson			See Attached Table 1 (4, 14, Guide 8, Radon 222)			See Attached Table 9 (Blanks)											
Invoice Address 900 W. 15th St. Ste 150 Casper WY 82401			E-mail tracydickerson@treccorp.com			See Attached Table 2 (Air Particulate)			See Attached Table 8 (WYDES Discharge)											
307-265-0696			Phone 307-265-0696			See Attached Table 3 (Vegetation)			See Attached Table 7 (Soil)											
Purchase Order #			Quote #			See Attached Table 4 (Sediment)			See Attached Table 6 (Soil)											
						See Attached Table 5 (Sediment)			See Attached Table 5 (Soil)											
ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	See Attached Table 1 (4, 14, Guide 8, Radon 222)	See Attached Table 2 (Air Particulate)	See Attached Table 3 (Vegetation)	See Attached Table 4 (Sediment)	See Attached Table 5 (Soil)	See Attached Table 6 (Soil)	See Attached Table 7 (Soil)	See Attached Table 8 (WYDES Discharge)	See Attached Table 9 (Blanks)	REMARKS				
1																				
2	51205138-2	5/18/12	8:45	UM3R-004-120808	WT	16	X										Groundwater			
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
LAB COMMENTS			Relinquished By (Signature/Printed)			DATE			TIME			Received By (Signature/Printed)			DATE			TIME		
3.F.C			Yan Dickerson Tracy Dickerson			5/18/12			8:45			Allyce R. McLeod			5/18/12			15:47		
												Kathy Bobb			5.9.12			9:31		
SHIPPING INFO			MATRIX CODES			TURNAROUND TIMES			COMPLIANCE INFORMATION			ADDITIONAL REMARKS								
<input type="checkbox"/> UPS	<input type="checkbox"/> Fed Express	<input type="checkbox"/> US Mail	<input type="checkbox"/> Water	<input checked="" type="checkbox"/> Soil	<input type="checkbox"/> Solid	<input type="checkbox"/> Trip Blank	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Standard turnaround	<input type="checkbox"/> RUSH - 5 Working Days	<input type="checkbox"/> URGENT - < 2 Working Days	Compliance Monitoring? Program (SDWA, NPDES,...)	Y/N	Y/N	Y/N	Y/N	Client				
<input checked="" type="checkbox"/> Hand Carried	<input type="checkbox"/> Other		<input checked="" type="checkbox"/> Check desired service														3 Bacteriostats to TMC Sheridan			
Rush & Urgent Surcharges will be applied			www.intermountainlabs.com																	