



Thursday, July 14, 2011

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

RE: Reno Creek Project  
Orde

r No.: S1103491

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples UM6-001-110331 on March 31, 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: 7/14/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1103491

CASE NARRATIVE
Report ID: S1103491002
(Replaces S1103491001)

Sample UM6-001-110331 was received on March 31, 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

S1103491-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory

Qualifiers by sample

- S1103492-010 - Dissolved Metals/Aluminum - Spike Recovery outside accepted recovery limits (1)
S1103492-010 - Dissolved Metals/Aluminum - Spike Recovery outside accepted recovery limits (1)
S1103474-001 - Radiochemistry/Radium 226 (Dissolved) - RPD outside accepted recovery limits
MB-R69026 - General Parameters/Radon-222 - Analyzed by a contract laboratory
LCS-R69026 - General Parameters/Radon-222 - Analyzed by a contract laboratory
S1103491-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory

(1) Spike recovery outside acceptance criteria due to potential sample matrix interference. Data approved as all other QC checks were within acceptance limits.

Reviewed by:

[Signature]

Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported: 7/14/2011
Report ID: S1103491002
(Replaces S1103491001)

ProjectName: Reno Creek Project
Lab ID: S1103491-001
ClientSample ID: UM6-001-110331
COC: RC 08266

WorkOrder: S1103491
CollectionDate: 3/31/2011 10:03:00 AM
DateReceived: 3/31/2011 3:40:00 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

**ProjectName:** Reno Creek Project  
**Lab ID:** S1103491-001  
**ClientSample ID:** UM6-001-110331  
**COC:** RC 08266

**Date Reported:** 7/14/2011  
**Report ID:** S1103491002  
(Replaces S1103491001)

**WorkOrder:** S1103491  
**CollectionDate:** 3/31/2011 10:03:00 AM  
**DateReceived:** 3/31/2011 3:40:00 PM  
**FieldSampler:** TN  
**Matrix:** Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Anions/Cations</b>							
Alkalinity, Total (As CaCO3)	48	mg/L		5	SM 2320B	4/6/2011 3:02:03 AM	AMB
Alkalinity, Bicarbonate as HCO3	50	mg/L		5	SM 2320B	4/6/2011 3:02:03 AM	AMB
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	4/6/2011 3:02:03 AM	AMB
Chloride	18	mg/L		1	EPA 300.0	4/6/2011 8:35:00 PM	KO
Fluoride	0.5	mg/L		0.1	SM 4500FC	4/1/2011 2:56:51 PM	AMB
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	4/11/2011 6:14:00 PM	AS
Sulfate	164	mg/L		1	EPA 300.0	4/6/2011 8:35:00 PM	KO
Calcium	16	mg/L		1	EPA 200.7	4/5/2011 8:34:58 PM	DG
Magnesium	1	mg/L		1	EPA 200.7	4/5/2011 8:34:58 PM	DG
Potassium	4	mg/L		1	EPA 200.7	4/5/2011 8:34:58 PM	DG
Sodium	101	mg/L		1	EPA 200.7	4/1/2011 4:01:36 PM	MS
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	4/6/2011 10:39:00 AM	AS
Silica as SiO2	11	mg/L		1	EPA 200.7	4/1/2011 3:59:17 PM	MS
<b>General Parameters</b>							
pH	8.8	s.u.		0.1	SM 4500 H B	4/6/2011 3:02:03 AM	AMB
Electrical Conductivity	549	µmhos/cm		5	SM 2510B	4/6/2011 3:02:03 AM	AMB
Total Dissolved Solids (180)	400	mg/L		10	SM 2540	4/8/2011 4:00:00 PM	JF
<b>Data Quality</b>							
Cation Sum	5.39	meq/L		0.00	SM 1030E	4/8/2011 4:45:29 PM	LJK
Anion Sum	5.14	meq/L		0.00	SM 1030E	4/8/2011 4:45:29 PM	LJK
Cation-Anion Balance (± 5%)	2.42	%		0.00	SM 1030E	4/8/2011 4:45:29 PM	LJK
Solids, Total Dissolved (Calc)	340	mg/L		10	SM 1030E	4/8/2011 4:45:29 PM	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.18	dec. %		0.01	Calculation	5/2/2011 3:11:16 PM	LJK

These results apply only to the samples tested.

**RL - Reporting Limit**

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- 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:   
Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401
ProjectName: Reno Creek Project
Lab ID: S1103491-001
ClientSample ID: UM6-001-110331
COC: RC 08266

Date Reported: 7/14/2011
Report ID: S1103491002
(Replaces S1103491001)
WorkOrder: S1103491
CollectionDate: 3/31/2011 10:03:00 AM
DateReceived: 3/31/2011 3:40:00 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).

These results apply only to the samples tested.

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



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1536 Cole Blvd
Lakewood, CO 80401
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Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Dissolved, Radionuclides - Suspended, and Radionuclides - Total.

These results apply only to the samples tested.

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

**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** AUC LLC  
**Work Order:** S1103491  
**Project:** Reno Creek Project

**Date:** 7/14/2011  
**Report ID:** S1103491002  
 (Replaces S1103491001)

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

Sample ID	RunNo: 68827	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	04/01/11 14:40	Alkalinity, Total (As CaCO3)	ND	5					

Sample ID	RunNo: 68913	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	04/05/11 14:57	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 68827	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	04/01/11 14:31	Alkalinity, Total (As CaCO3)	476	5	473		101	96.6 - 103	

Sample ID	RunNo: 68913	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	04/05/11 14:48	Alkalinity, Total (As CaCO3)	474	5	473		100	96.6 - 103	

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

Sample ID	RunNo: 68827	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104001-003A	04/01/11 16:23	Alkalinity, Bicarbonate as HCO3	724	5	729	0.767		20	
		Alkalinity, Carbonate as CO3	18	5	16	9.56		20	
		Alkalinity, Total (As CaCO3)	623	5	625	0.316		20	

Sample ID	RunNo: 68827	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104004-001A	04/01/11 18:20	Alkalinity, Bicarbonate as HCO3	222	5	223	0.340		20	
		Alkalinity, Total (As CaCO3)	182	5	183	0.340		20	

Sample ID	RunNo: 68827	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104011-001A	04/01/11 20:27	Alkalinity, Total (As CaCO3)	74	5	76	2.10		20	

Sample ID	RunNo: 68827	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104014-010A	04/02/11 0:41	Alkalinity, Bicarbonate as HCO3	56	5	57	1.43		20	
		Alkalinity, Carbonate as CO3	25	5	24	5.52		20	
		Alkalinity, Total (As CaCO3)	88	5	86	1.75		20	

Sample ID	RunNo: 68913	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104036-003A	04/05/11 17:01	Alkalinity, Bicarbonate as HCO3	ND	5	ND	0		20	
		Alkalinity, Total (As CaCO3)	ND	5	ND	0		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**

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**Project:** Reno Creek Project

**Date:** 7/14/2011  
**Report ID:** S1103491002  
 (Replaces S1103491001)

**Alkalinity**Sample Type **DUP**

Units: mg/L

Sample ID	RunNo: 68913	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104041-009A	04/05/11 20:37	Alkalinity, Bicarbonate as HCO3	12	5	10	11.7		20	
		Alkalinity, Total (As CaCO3)	10	5	9	11.7		20	
S1104041-019A	04/05/11 22:25	Alkalinity, Bicarbonate as HCO3	49	5	47	4.57		20	
		Alkalinity, Total (As CaCO3)	40	5	38	4.57		20	
S1103491-001B	04/06/11 3:10	Alkalinity, Bicarbonate as HCO3	49	5	50	1.70		20	
		Alkalinity, Carbonate as CO3	5	5	ND	0		20	
		Alkalinity, Total (As CaCO3)	49	5	48	1.34		20	

**Conductivity**Sample Type **MBLK**

Units: µmhos/cm

Sample ID	RunNo: 68827	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	04/01/11 14:40	Electrical Conductivity	ND	5					
BLANK	04/05/11 14:57	Electrical Conductivity	ND	5					

Sample Type **LCS**

Units: µmhos/cm

Sample ID	RunNo: 68827	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	04/01/11 14:31	Electrical Conductivity	983	5	1000		98.3	90 - 110	
ATQC	04/05/11 14:48	Electrical Conductivity	975	5	1000		97.5	90 - 110	

Sample Type **DUP**

Units: µmhos/cm

Sample ID	RunNo: 68827	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104001-003A	04/01/11 16:23	Electrical Conductivity	4100	5	4120	0.485		20	
S1104011-001A	04/01/11 20:27	Electrical Conductivity	1180	5	1170	1.20		20	
S1104014-010A	04/02/11 0:41	Electrical Conductivity	159	5	159	0.0629		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
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### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1103491  
**Project:** Reno Creek Project

**Date:** 7/14/2011  
**Report ID:** S1103491002  
(Replaces S1103491001)

**Conductivity**

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 68913	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104036-003A	04/05/11 17:01	Electrical Conductivity	850	5	836	1.67		20	
S1104041-009A	04/05/11 20:37	Electrical Conductivity	53	5	54	2.57		20	
S1104041-019A	04/05/11 22:25	Electrical Conductivity	190	5	190	0.263		20	

**Dissolved Mercury by EPA 245.1 - Water**

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

Sample ID	RunNo: 68885	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	04/05/11 9:18	Mercury	ND	0.001					

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

Sample ID	RunNo: 68885	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	04/05/11 9:16	Mercury	0.002	0.001	0.002		93.5	85 - 115	

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

Sample ID	RunNo: 68885	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103473-014C	04/05/11 12:16	Mercury	0.002	0.001	0.00244	ND	100	70 - 130	

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

Sample ID	RunNo: 68885	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1103473-014C	04/05/11 12:17	Mercury	0.002	0.001	0.002	2.00	98.5	20	

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

Sample ID	RunNo: 68885	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103473-014C	04/05/11 12:14	Mercury	ND	0.001	ND	0		20	

- Qualifiers:**
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  - S Spike Recovery outside accepted recovery limits
  - E Value above quantitation range
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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:** S1103491  
**Project:** Reno Creek Project

**Date:** 7/14/2011  
**Report ID:** S1103491002  
 (Replaces S1103491001)

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

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

Sample ID	RunNo: 68817	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	04/01/11 15:47	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: 68817	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	04/01/11 15:50	Aluminum	1.0	0.1	1		98.3	85 - 115	
		Boron	1.0	0.1	1		98.6	85 - 115	
		Chromium	1.00	0.01	1		99.5	85 - 115	
		Iron	0.98	0.05	1		98.3	85 - 115	
		Manganese	0.99	0.02	1		99.2	85 - 115	
		Nickel	0.97	0.01	1		97.0	85 - 115	
		Zinc	0.97	0.01	1		97.2	85 - 115	

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

Sample ID	RunNo: 68817	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103491-001ES	04/01/11 16:03	Aluminum	0.5	0.1	0.5	ND	99.1	70 - 130	
		Boron	0.5	0.1	0.5	ND	95.5	70 - 130	
		Chromium	0.48	0.01	0.5	ND	95.0	70 - 130	
		Iron	0.51	0.05	0.5	ND	92.6	70 - 130	
		Manganese	0.47	0.02	0.5	ND	94.0	70 - 130	
		Nickel	0.47	0.01	0.5	ND	93.5	70 - 130	
		Zinc	0.49	0.01	0.5	0.01	96.0	70 - 130	

Sample ID	RunNo: 68817	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103492-010CS	04/01/11 17:01	Aluminum	3.8	0.1	0.5	3.1	133	70 - 130	S
		Beryllium	0.49	0.01	0.5	ND	98.5	70 - 130	
		Boron	0.5	0.1	0.5	ND	94.7	70 - 130	
		Chromium	0.47	0.01	0.5	ND	94.3	70 - 130	
		Iron	1.07	0.05	0.5	0.58	99.5	70 - 130	
		Manganese	0.47	0.02	0.5	ND	93.5	70 - 130	
		Nickel	0.45	0.01	0.5	ND	90.4	70 - 130	
Zinc	0.47	0.01	0.5	ND	93.2	70 - 130			

- Qualifiers:**
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  - S Spike Recovery outside accepted recovery limits
  - E Value above quantitation range
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**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** AUC LLC  
**Work Order:** S1103491  
**Project:** Reno Creek Project

**Date:** 7/14/2011

**Report ID:** S1103491002  
 (Replaces S1103491001)

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

Sample ID	RunNo: 68817	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1103491-001ESD	04/01/11 16:06	Aluminum	0.5	0.1	0.5	1.02	98.1	20	
		Boron	0.5	0.1	0.5	2.14	97.7	20	
		Chromium	0.47	0.01	0.48	0.336	94.7	20	
		Iron	0.51	0.05	0.51	0.566	92.0	20	
		Manganese	0.47	0.02	0.47	0.275	94.3	20	
		Nickel	0.47	0.01	0.47	0.214	93.3	20	
		Zinc	0.49	0.01	0.49	0.972	95.0	20	

Sample ID	RunNo: 68817	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1103492-010CSD	04/01/11 17:04	Aluminum	3.8	0.1	3.8	0.101	132	20	S
		Beryllium	0.49	0.01	0.49	0.426	98.1	20	
		Boron	0.5	0.1	0.5	1.48	96.3	20	
		Chromium	0.47	0.01	0.47	0.127	94.2	20	
		Iron	1.07	0.05	1.07	0.121	99.2	20	
		Manganese	0.47	0.02	0.47	0.682	92.9	20	
		Nickel	0.45	0.01	0.45	0.0663	90.4	20	
		Zinc	0.47	0.01	0.47	0.0636	93.1	20	

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

Sample ID	RunNo: 68817	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103491-001ED	04/01/11 16:01	Aluminum	ND	0.1	ND	0		20	
		Boron	ND	0.1	ND	0		20	
		Chromium	ND	0.01	ND	0		20	
		Iron	ND	0.05	ND	0		20	
		Manganese	ND	0.02	ND	0		20	
		Nickel	ND	0.01	ND	0		20	
		Zinc	0.01	0.01	0.01	0		20	

Sample ID	RunNo: 68817	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103492-010CD	04/01/11 16:59	Aluminum	3.1	0.1	3.1	0.284		20	
		Boron	ND	0.1	ND	0		20	
		Chromium	ND	0.01	ND	0		20	
		Iron	0.58	0.05	0.58	0.935		20	
		Manganese	ND	0.02	ND	0		20	
		Nickel	ND	0.01	ND	0		20	
		Zinc	ND	0.01	ND	0		20	

**Qualifiers:**

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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:** S1103491  
**Project:** Reno Creek Project

**Date:** 7/14/2011  
**Report ID:** S1103491002  
(Replaces S1103491001)

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

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

Sample ID	RunNo: 68812	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	04/01/11 10:27	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: 68812	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	04/01/11 10:23	Arsenic	0.103	0.005	0.1		103	85 - 115	
		Barium	ND	0.5	0.1		89.0	85 - 115	
		Cadmium	0.102	0.002	0.1		102	85 - 115	
		Copper	0.09	0.01	0.1		94.3	85 - 115	
		Lead	0.10	0.02	0.1		96.3	85 - 115	
		Molybdenum	0.10	0.02	0.1		98.9	85 - 115	
		Selenium	0.103	0.005	0.1		103	85 - 115	
		Uranium	0.100	0.001	0.1		99.6	85 - 115	
		Vanadium	0.09	0.02	0.1		93.2	85 - 115	

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

Sample ID	RunNo: 68812	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1104001-006CS	04/01/11 15:36	Arsenic	1.19	0.005	1.1	ND	108	70 - 130	
		Barium	1.1	0.5	1.1	ND	91.7	70 - 130	
		Cadmium	1.05	0.002	1.1	ND	95.7	70 - 130	
		Copper	1.06	0.01	1.1	ND	96.6	70 - 130	
		Lead	1.04	0.02	1.1	ND	94.4	70 - 130	
		Molybdenum	1.10	0.02	1.1	ND	99.4	70 - 130	
		Selenium	1.19	0.005	1.1	ND	107	70 - 130	
		Uranium	1.07	0.001	1.1	0.011	96.5	70 - 130	
		Vanadium	1.12	0.02	1.1	ND	101	70 - 130	

- 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:** S1103491  
**Project:** Reno Creek Project

**Date:** 7/14/2011  
**Report ID:** S1103491002  
(Replaces S1103491001)

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

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

Sample ID	RunNo: 68812	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1104001-006CMSD	04/01/11 15:40	Arsenic	1.18	0.005	1.19	0.259	107	20	
		Barium	1.1	0.5	1.1	0.0917	91.6	20	
		Cadmium	1.05	0.002	1.05	0.434	95.3	20	
		Copper	1.06	0.01	1.06	0.124	96.5	20	
		Lead	1.06	0.02	1.04	1.61	95.9	20	
		Molybdenum	1.12	0.02	1.10	1.85	101	20	
		Selenium	1.18	0.005	1.19	0.765	107	20	
		Uranium	1.10	0.001	1.07	2.12	98.5	20	
		Vanadium	1.09	0.02	1.12	2.41	98.9	20	
		Zirconium	1.1	0.3	1.1	1.42	102	20	

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

Sample ID	RunNo: 68812	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104001-006CD	04/01/11 15:32	Arsenic	ND	0.005	ND	0		20	
		Barium	ND	0.5	ND	0		20	
		Cadmium	ND	0.002	ND	0		20	
		Copper	ND	0.01	ND	0		20	
		Lead	ND	0.02	ND	0		20	
		Molybdenum	ND	0.02	ND	0		20	
		Selenium	ND	0.005	ND	0		20	
		Uranium	0.011	0.001	0.011	0.345		20	
		Vanadium	ND	0.02	ND	0		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:** S1103491  
**Project:** Reno Creek Project

**Date:** 7/14/2011  
**Report ID:** S1103491002  
 (Replaces S1103491001)

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

Sample ID	RunNo: 68827	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	04/01/11 14:40	Fluoride	ND	0.1					

Sample ID	RunNo: 68913	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	04/05/11 14:57	Fluoride	ND	0.1					

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

Sample ID	RunNo: 68827	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	04/01/11 14:31	Fluoride	3.0	0.1	2.82		105	86.1 - 114	

Sample ID	RunNo: 68913	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	04/05/11 14:48	Fluoride	2.8	0.1	2.82		99.9	86.1 - 114	

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

Sample ID	RunNo: 68827	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1104006-1SPK	04/01/11 18:41	Fluoride	2.9	0.1	2.5	ND	116	80 - 120	

Sample ID	RunNo: 68827	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1104014-6SPK	04/01/11 23:39	Fluoride	2.5	0.1	2.5	ND	98.2	80 - 120	

Sample ID	RunNo: 68827	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1104014-13SPK	04/02/11 1:23	Fluoride	2.4	0.1	2.5	ND	94.5	80 - 120	

Sample ID	RunNo: 68913	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1104041-2SPK	04/05/11 19:12	Fluoride	2.4	0.1	2.5	ND	94.3	80 - 120	

Sample ID	RunNo: 68913	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1104041-23SPK	04/05/11 23:08	Fluoride	2.1	0.1	2.5	ND	84.8	80 - 120	

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

Sample ID	RunNo: 68827	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104001-003A	04/01/11 16:23	Fluoride	0.2	0.1	0.2	3.93		20	

Sample ID	RunNo: 68827	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104004-001A	04/01/11 18:20	Fluoride	0.7	0.1	0.9	18.1		20	

Sample ID	RunNo: 68827	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104014-010A	04/02/11 0:41	Fluoride	0.8	0.1	0.8	0.985		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:** S1103491  
**Project:** Reno Creek Project

**Date:** 7/14/2011  
**Report ID:** S1103491002  
 (Replaces S1103491001)

**Fluoride by SM 4500**

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

Sample ID	RunNo: 68913	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1104036-003A	04/05/11 17:01	Fluoride	ND	0.1	ND	0		20	
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Sample ID	RunNo: 68913	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1104041-009A	04/05/11 20:37	Fluoride	0.2	0.1	0.2	2.17		20	
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Sample ID	RunNo: 68913	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1104041-019A	04/05/11 22:25	Fluoride	0.6	0.1	0.6	2.43		20	
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**Gross Alpha, Beta by SM 7110B**

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

Sample ID	RunNo: 69264	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-104	04/17/11 21:40	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 69264	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-104	04/17/11 21:40	Gross Alpha (Dissolved)	71	2	69		103	72.6 - 137	
		Gross Beta (Dissolved)	129	3	130		100	72.6 - 137	

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

Sample ID	RunNo: 69264	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1103491-001GMS	04/17/11 21:40	Gross Alpha (Dissolved)	58	2	69	ND	84.1	44.4 - 137	
		Gross Beta (Dissolved)	138	3	130	4	104	44.4 - 137	

Sample ID	RunNo: 69264	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1103495-001FMS	04/17/11 21:40	Gross Alpha (Dissolved)	86	2	69	12	108	44.4 - 137	
		Gross Beta (Dissolved)	140	3	130	5	104	44.4 - 137	

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

Sample ID	RunNo: 69264	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1103494-001FDUP	04/17/11 21:40	Gross Alpha (Dissolved)	110 ± 3.7	2	120	8.66		20	
		Gross Beta (Dissolved)	31.0 ± 1.6	3	34	7.57		20	

Sample ID	RunNo: 69264	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1103495-002FDUP	04/17/11 21:40	Gross Alpha (Dissolved)	17.3 ± 1.5	2	15	12.4		20	
		Gross Beta (Dissolved)	6.3 ± 1.2	3	7	11.2		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:** S1103491  
**Project:** Reno Creek Project

**Date:** 7/14/2011  
**Report ID:** S1103491002  
(Replaces S1103491001)

**Anions by ION Chromatography**

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

Sample ID	RunNo: 68857	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	04/04/11 12:03	Chloride	ND	1					
		Sulfate	ND	1					

Sample ID	RunNo: 68964	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	04/06/11 16:25	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 68857	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	04/04/11 8:41	Chloride	31	1	30		102	90 - 110	
		Sulfate	144	1	150		96.3	90 - 110	

Sample ID	RunNo: 68964	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	04/06/11 13:03	Chloride	30	1	30		98.7	90 - 110	
		Sulfate	139	1	150		92.8	90 - 110	

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

Sample ID	RunNo: 68857	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1104005-001ASPK	04/04/11 17:25	Chloride	140	1	130	4	105	80 - 120	
		Sulfate	1500	1	1040	488	97.3	80 - 120	

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

Sample ID	RunNo: 68857	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104005-001A	04/04/11 17:13	Chloride	4	1	4	9.52		20	
		Sulfate	494	1	488	1.21		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:** S1103491  
**Project:** Reno Creek Project

**Date:** 7/14/2011  
**Report ID:** S1103491002  
 (Replaces S1103491001)

**Cations by ICP (Method 200.7)**

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

Sample ID	RunNo: 68816	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	04/01/11 15:47	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

Sample ID	RunNo: 68912	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	04/05/11 16:31	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 68816	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	04/01/11 15:52	Calcium	39	1	40		98.0	85 - 115	
		Magnesium	40	1	40		101	85 - 115	
		Potassium	39	1	40		97.1	85 - 115	
		Sodium	38	1	40		94.4	85 - 115	

Sample ID	RunNo: 68912	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	04/05/11 16:36	Calcium	38	1	40		96.0	85 - 115	
		Magnesium	39	1	40		96.7	85 - 115	
		Potassium	39	1	40		96.2	85 - 115	
		Sodium	38	1	40		94.5	85 - 115	

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

Sample ID	RunNo: 68816	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103491-001BS	04/01/11 16:03	Calcium	41	1	25	16	97.6	70 - 130	
		Magnesium	28	1	25	1	105	70 - 130	
		Potassium	32	1	25	4	113	70 - 130	
		Sodium	124	1	25	101	92.1	70 - 130	

Sample ID	RunNo: 68816	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103492-010AS	04/01/11 17:01	Calcium	26	1	25	ND	102	70 - 130	
		Magnesium	26	1	25	ND	104	70 - 130	
		Potassium	27	1	25	ND	106	70 - 130	
		Sodium	39	1	25	15	95.7	70 - 130	

- 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:** S1103491  
**Project:** Reno Creek Project

**Date:** 7/14/2011

**Report ID:** S1103491002  
 (Replaces S1103491001)

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

Sample ID	RunNo: 68816	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1103491-001BSD	04/01/11 16:06	Calcium	41	1	41	0.363	97.0	20	
		Magnesium	28	1	28	0.320	105	20	
		Potassium	32	1	32	0.475	113	20	
		Sodium	123	1	124	0.287	90.7	20	

Sample ID	RunNo: 68816	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1103492-010ASD	04/01/11 17:04	Calcium	26	1	26	0.458	101	20	
		Magnesium	26	1	26	0.196	104	20	
		Potassium	27	1	27	0.703	106	20	
		Sodium	39	1	39	0.347	95.2	20	

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

Sample ID	RunNo: 68816	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103491-001B	04/01/11 15:59	Calcium	17	1	16	0.292		20	
		Magnesium	1	1	1	0.324		20	
		Potassium	4	1	4	0.0616		20	
		Sodium	101	1	101	0.290		20	

Sample ID	RunNo: 68816	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103492-010AD	04/01/11 16:59	Calcium	ND	1	ND	0		20	
		Magnesium	ND	1	ND	0		20	
		Potassium	ND	1	ND	0		20	
		Sodium	15	1	15	1.27		20	

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

Sample ID	RunNo: 68947	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	04/06/11 10:18	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 68947	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	04/06/11 10:16	Nitrogen, Ammonia (As N)	8.9	0.1	8.93		99.6	90 - 110	

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

Sample ID	RunNo: 68947	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1104001-005B	04/06/11 10:47	Nitrogen, Ammonia (As N)	10.0	0.1	10	0.2	97.4	80 - 120	

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

Sample ID	RunNo: 68947	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104001-005B	04/06/11 10:46	Nitrogen, Ammonia (As N)	0.2	0.1	0.2	6.23		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:** S1103491  
**Project:** Reno Creek Project

**Date:** 7/14/2011  
**Report ID:** S1103491002  
(Replaces S1103491001)

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

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

Sample ID	RunNo: 69088	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	04/11/11 16:20	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 69088	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	04/11/11 16:17	Nitrogen, Nitrate-Nitrite (as N)	7.7	0.1	7.69		100	90 - 110	

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

Sample ID	RunNo: 69088	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1104041-009B	04/11/11 18:25	Nitrogen, Nitrate-Nitrite (as N)	10.3	0.1	10	ND	103	80 - 120	

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

Sample ID	RunNo: 69088	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104041-009B	04/11/11 18:24	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1	ND	0		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:** S1103491  
**Project:** Reno Creek Project

**Date:** 7/14/2011  
**Report ID:** S1103491002  
 (Replaces S1103491001)

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-094	04/19/11 19:25	Lead 210 (Dissolved)	ND	1					
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Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-104	04/25/11 10:14	Lead 210 (Suspended)	ND	1					
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Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-104B	04/25/11 12:24	Lead 210 (Suspended)	ND	1					
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Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-094	04/21/11 9:24	Polonium 210 (Dissolved)	ND	1					
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Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-104	04/28/11 8:30	Polonium 210 (Suspended)	ND	1					
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Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-104B	04/28/11 9:44	Polonium 210 (Suspended)	ND	1					
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Sample Type **LCS** Units: pCi/L

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-094	04/19/11 19:25	Lead 210 (Dissolved)	15	1	13.1		116	67.6 - 131	
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Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-104	04/25/11 10:14	Lead 210 (Suspended)	14	1	13.1		107	67.6 - 131	
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Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-094	04/21/11 9:24	Polonium 210 (Dissolved)	12	1	13.1		93.6	67.6 - 131	
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Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-104	04/28/11 8:30	Polonium 210 (Suspended)	13	1	13.1		102	67.6 - 131	
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Sample Type **MS** Units: pCi/L

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1103348-001GMS	04/19/11 19:25	Lead 210 (Dissolved)	14	1	13.1	1	92.5	66 - 133	
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Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1103348-002GMS	04/19/11 19:25	Lead 210 (Dissolved)	19	1	13.1	5	107	66 - 133	
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Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1103455-001GMS	04/25/11 10:14	Lead 210 (Suspended)	18	1	13.1	5	96.7	66 - 133	
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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:** S1103491  
**Project:** Reno Creek Project

**Date:** 7/14/2011  
**Report ID:** S1103491002  
(Replaces S1103491001)

**Lead 210 and Polonium 210**

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

Sample ID	RunNo: 69436	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1103485-001GMS 04/25/11 10:14 Lead 210 (Suspended) 31 1 13.1 18 103 66 - 133

Sample ID	RunNo: 69473	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1103348-002GMS 04/21/11 9:24 Polonium 210 (Dissolved) 3 1 13.1 ND 23.7 66 - 133

Sample ID	RunNo: 69550	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1103455-001GMS 04/28/11 8:30 Polonium 210 (Suspended) 7 1 13.1 ND 52.4 66 - 133

Sample ID	RunNo: 69550	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1103485-001GMS 04/28/11 8:30 Polonium 210 (Suspended) 5 1 13.1 ND 40.4 66 - 133

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

Sample ID	RunNo: 69362	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1103410-001DDUP 04/19/11 19:25 Lead 210 (Dissolved) 1.1 ± 0.5 1 1 8.36 20

Sample ID	RunNo: 69473	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1103410-001DDUP 04/21/11 9:24 Polonium 210 (Dissolved) ND 1 ND 0 20

Sample ID	RunNo: 69550	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1103474-001GDUP 04/28/11 8:30 Polonium 210 (Suspended) ND 1 ND 0 20

**Radium 228**

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

Sample ID	RunNo: 69274	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-103 04/18/11 16:25 Radium 228 (Dissolved) ND 1

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

Sample ID	RunNo: 69274	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-103 04/18/11 16:25 Radium 228 (Dissolved) 15 1 13.9 111 74.9 - 122

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

Sample ID	RunNo: 69274	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1103474-001GMS 04/18/11 16:25 Radium 228 (Dissolved) 13 1 13.9 ND 91.6 48.4 - 167

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

Sample ID	RunNo: 69274	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1103491-001GDUP 04/18/11 16:25 Radium 228 (Dissolved) ND 1 ND 0 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:** S1103491  
**Project:** Reno Creek Project

**Date:** 7/14/2011  
**Report ID:** S1103491002  
 (Replaces S1103491001)

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

Sample ID	RunNo: 69370	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-096	04/20/11 16:50	Radium 226 (Dissolved)	ND	0.2					

Sample ID	RunNo: 69475	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-103	04/25/11 8:23	Radium 226 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 69370	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-096	04/20/11 16:50	Radium 226 (Dissolved)	5.7	0.2	5		113	62.5 - 125	

Sample ID	RunNo: 69475	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-103	04/25/11 8:23	Radium 226 (Suspended)	4.8	0.2	5		95.5	62.5 - 125	

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

Sample ID	RunNo: 69370	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103411-001DMS	04/20/11 16:50	Radium 226 (Dissolved)	5.7	0.2	5	0.7	101	41.6 - 146	

Sample ID	RunNo: 69370	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103485-001GMS	04/20/11 18:59	Radium 226 (Dissolved)	53.0	0.2	5	46.9	123	41.6 - 146	

Sample ID	RunNo: 69475	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103494-002FMS	04/26/11 11:46	Radium 226 (Suspended)	6.5	0.2	5	ND	129	41.6 - 146	

Sample ID	RunNo: 69475	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103485-001GMS	04/26/11 11:46	Radium 226 (Suspended)	5.5	0.2	5	ND	110	41.6 - 146	

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

Sample ID	RunNo: 69370	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103411-002DDUP	04/20/11 16:50	Radium 226 (Dissolved)	ND	0.2	ND	0		20	

Sample ID	RunNo: 69370	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103474-001GDUP	04/20/11 18:59	Radium 226 (Dissolved)	0.5	0.2	0.6	25.1		20	R

Sample ID	RunNo: 69475	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103494-001FDUP	04/26/11 11:46	Radium 226 (Suspended)	0.3	0.2	0.3	10.7		20	

Sample ID	RunNo: 69475	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104083-001GDUP	04/25/11 9:28	Radium 226 (Suspended)	ND	0.2	ND	0		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:** S1103491  
**Project:** Reno Creek Project

**Date:** 7/14/2011  
**Report ID:** S1103491002  
(Replaces S1103491001)

**Thorium 230 in Water**

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

Sample ID	RunNo: 69452	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-102B	04/20/11 14:08	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 69452	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DMB11-102	04/21/11 12:32	Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 69452	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-102B	04/20/11 14:08	Thorium 230 (Dissolved)	12	0.2	12		98.4	67.1 - 134	
		Thorium 230 (Suspended)	12	0.2	12		98.4	67.1 - 134	

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

Sample ID	RunNo: 69452	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103494-001FDUP	04/20/11 14:09	Thorium 230 (Dissolved)	ND	0.2	ND	0		20	

Sample ID	RunNo: 69452	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103455-001GDUP	04/18/11 17:46	Thorium 230 (Suspended)	ND	0.2	ND	0		20	

**Radon 222 by SM7500-RN**

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

Sample ID	RunNo: 69026	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R69026	04/01/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 69026	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R69026	04/01/11 0:00	Radon-222	22000	100	22500		97.7	75 - 125	L

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

Sample ID	RunNo: 69026	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103491-001B	04/01/11 0:00	Radon-222	200	40	200	3.47		20	L

- 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:** S1103491  
**Project:** Reno Creek Project

**Date:** 7/14/2011  
**Report ID:** S1103491002  
 (Replaces S1103491001)

**Silica as SiO2**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 68818	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	04/01/11 15:47	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 68818	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	04/01/11 15:50	Silica as SiO2	2.1	0.1	2.14		97.2	85 - 115	

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

Sample ID	RunNo: 68818	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103491-001ED	04/01/11 16:01	Silica as SiO2	10.6	0.1	10.6	0.504		20	

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

Sample ID	RunNo: 68888	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	04/01/11 14:40	Total Dissolved Solids (180)	ND	10					

Sample ID	RunNo: 69129	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	04/08/11 16:10	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 68888	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	04/01/11 14:45	Total Dissolved Solids (180)	220	10	226		95.6	90 - 110	

Sample ID	RunNo: 69129	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	04/08/11 16:15	Total Dissolved Solids (180)	220	10	226		98.2	90 - 110	

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

Sample ID	RunNo: 68888	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103492-009A	04/01/11 15:55	Total Dissolved Solids (180)	1140	10	1140	0.704		20	

Sample ID	RunNo: 68888	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104009-005A	04/01/11 17:50	Total Dissolved Solids (180)	147000	10	144000	2.22		20	

Sample ID	RunNo: 68888	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104013-003A	04/01/11 18:20	Total Dissolved Solids (180)	210	10	210	0		20	

Sample ID	RunNo: 69129	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104059-001A	04/08/11 16:55	Total Dissolved Solids (180)	1110	10	1110	0.360		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:** S1103491  
**Project:** Reno Creek Project

**Date:** 7/14/2011  
**Report ID:** S1103491002  
 (Replaces S1103491001)

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

Sample ID	RunNo: 69129	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104081-001A	04/08/11 17:50	Total Dissolved Solids (180)	2040	10	2040	0		20	
S1104091-006A	04/08/11 19:45	Total Dissolved Solids (180)	22700	10	23000	1.39		20	
S1104094-003B	04/08/11 20:20	Total Dissolved Solids (180)	400	10	400	0.498		20	

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

Sample ID	RunNo: 68917	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK 4-4 TOT -5008	04/05/11 20:37	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 68917	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS 4-4 TOT -5008	04/05/11 20:39	Iron	0.47	0.05	0.5		93.4	85 - 115	
		Manganese	0.19	0.02	0.2		95.4	85 - 115	

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

Sample ID	RunNo: 68927	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	04/06/11 10:30	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 68927	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	04/06/11 10:27	Uranium Suspended	0.0958	0.0003	0.1		95.8	85 - 115	

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

Sample ID	RunNo: 68927	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103491-001HS	04/06/11 10:40	Uranium Suspended	1.05	0.0003	1.1	ND	95.8	70 - 130	

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

Sample ID	RunNo: 68927	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1103491-001HMSD	04/06/11 10:43	Uranium Suspended	1.02	0.0003	1.05	3.34	92.6	20	

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

Sample ID	RunNo: 68927	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103491-001HD	04/06/11 10:38	Uranium Suspended	ND	0.0003	ND	0		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:** S1103491  
**Project:** Reno Creek Project

**Date:** 7/14/2011  
**Report ID:** S1103491002  
(Replaces S1103491001)

**pH Water**

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

Sample ID	RunNo: 68827	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	04/01/11 14:31	pH	10.8	0.1	10.7		101	94.8 - 105	

  

Sample ID	RunNo: 68913	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	04/05/11 14:48	pH	10.8	0.1	10.7		101	94.8 - 105	

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

Sample ID	RunNo: 68827	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104001-003A	04/01/11 16:23	pH	8.4	0.1	8.4	0.0614		20	

  

Sample ID	RunNo: 68827	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104004-001A	04/01/11 18:20	pH	8.0	0.1	8.0	0.0626		20	

  

Sample ID	RunNo: 68827	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104011-001A	04/01/11 20:27	pH	8.1	0.1	7.7	5.64		20	

  

Sample ID	RunNo: 68827	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104014-010A	04/02/11 0:41	pH	9.8	0.1	9.8	0.103		20	

  

Sample ID	RunNo: 68913	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104036-003A	04/05/11 17:01	pH	2.9	0.1	2.9	1.18		20	

  

Sample ID	RunNo: 68913	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104037-001B	04/05/11 18:38	pH	8.5	0.1	8.5	0.139		20	

  

Sample ID	RunNo: 68913	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104041-009A	04/05/11 20:37	pH	7.1	0.1	7.0	1.42		20	

  

Sample ID	RunNo: 68913	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104041-019A	04/05/11 22:25	pH	8.1	0.1	8.1	0.602		20	

  

Sample ID	RunNo: 68913	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104046-004B	04/05/11 23:56	pH	7.9	0.1	7.9	0.0517		20	

  

Sample ID	RunNo: 68913	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104052-001C	04/06/11 0:31	pH	7.8	0.1	7.8	0.360		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) 682-8945

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- CHAIN OF CUSTODY RECORD -

Client Name: **AUC LLC** Report Address: **peavendor@auc-llc.com; mickerson@treecorp.com; jshriver@treecorp.com** Invoice Address: **AUC LLC** Project Identification: **Reno Creek Project** Contact Name: **Traci Mickerson** Email: **tmickerson@treecorp.com** Phone: **307-265-0696** Purchase Order #: **Quote #** Sampler (Signature/Printed): **Traci Mickerson** Telephone #: **265-0696**

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 8 WYPDES Discharge	See Attached Table 9 (Blanks)	REMARKS
1	SW163491-01	3/24	10:03	UM6-001-110331	W	13								Collected

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
7.5	Traci Mickerson	3/24	14:35	Traci Mickerson	3/31	15:40
				Kathryn Boyd	4.1.11	9:57

**SHIPPING INFO**

UPS  Fed Express  US Mail  Hand Carried  Other \_\_\_\_\_

**MATRIX CODES**

Water  WT  Soil  SL  Solid  SD  Trip Blank  TB  Other  OT

**TURNAROUND TIMES**

Check desired service  Standard turnaround  RUSH - 5 Working Days  URGENT - < 2 Working Days

Rush & Urgent Surcharges will be applied

**COMPLIANCE INFORMATION**

Compliance Monitoring?  Y  N  
 Program (SDWA, NPDES,...)  
 PWSID / Permit #  
 Chlorinated?  Y  N  
 Sample Disposal: Lab  Client

**ADDITIONAL REMARKS**