



Tuesday, September 27, 2011

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

RE: Reno Creek Project
Orde

r No.: S1108326

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples SM6-003-110817 on August 17, 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: 9/27/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1108326

CASE NARRATIVE
Report ID: S1108326001

Sample SM6-003-110817 was received on August 17, 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

MB-R73897 - General Parameters/Radon-222 - Analyzed by a contract laboratory
LCS-R73897 - General Parameters/Radon-222 - Analyzed by a contract laboratory
S1108326-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
S1108431-001 - General Parameters/Nitrogen, Ammonia (As N) - RPD outside accepted recovery limits
S1108354-002 - Cations/Magnesium - RPD outside accepted recovery limits

Reviewed by:

Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported 9/27/2011
Report ID S1108326001

ProjectName: Reno Creek Project
Lab ID: S1108326-001
ClientSample ID: SM6-003-110817
COC: RC 08356

WorkOrder: S1108326
CollectionDate: 8/17/2011 10:11:00 AM
DateReceived: 8/17/2011 4:44:00 PM
FieldSampler: RM
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
Field						
pH	8.13	s.u.			Field	8/17/2011 10:11:00 AM
Conductivity	2074	µmhos/cm			Field	8/17/2011 10:11:00 AM
Dissolved Oxygen	5.14	mg/L			Field	8/17/2011 10:11:00 AM
Turbidity	5.2	NTU			Field	8/17/2011 10:11:00 AM
Temperature	26.21	°C			Field	8/17/2011 10:11:00 AM
Oxygen Reduction Potential (ORP)	-103.5	mV			Field	8/17/2011 10:11:00 AM
Purge Rate Reading 1	190	ml/min			Field	8/17/2011 10:11:00 AM
Water Level Reading 1	73.33	Ft			Field	8/17/2011 10:11:00 AM
Anions/Cations						
Alkalinity, Total (As CaCO3)	95	mg/L		5	SM 2320B	8/19/2011 4:23:10 PM AMB
Alkalinity, Bicarbonate as HCO3	116	mg/L		5	SM 2320B	8/19/2011 4:23:10 PM AMB
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	8/19/2011 4:23:10 PM AMB
Chloride	4	mg/L		1	EPA 300.0	8/22/2011 5:01:00 PM ARF
Fluoride	0.3	mg/L		0.1	SM 4500FC	8/19/2011 4:23:10 PM AMB
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	8/25/2011 3:48:00 PM MEL
Sulfate	900	mg/L		1	EPA 300.0	8/22/2011 5:01:00 PM ARF
Calcium	146	mg/L		1	EPA 200.7	8/19/2011 1:34:31 PM DG
Magnesium	24	mg/L		1	EPA 200.7	8/19/2011 1:34:31 PM DG
Potassium	9	mg/L		1	EPA 200.7	8/19/2011 1:34:31 PM DG
Sodium	308	mg/L		1	EPA 200.7	8/19/2011 1:34:31 PM DG
Nitrogen, Ammonia (As N)	0.1	mg/L		0.1	EPA 350.1	8/29/2011 4:27:00 PM MEL
Silica as SiO2	6	mg/L		1	EPA 200.7	8/19/2011 1:34:31 PM DG
General Parameters						
pH	8.1	s.u.		0.1	SM 4500 H B	8/19/2011 4:23:10 PM AMB
Electrical Conductivity	2080	µmhos/cm		5	SM 2510B	8/19/2011 4:23:10 PM AMB
Total Dissolved Solids (180)	1590	mg/L		10	SM 2540	8/19/2011 8:40:00 AM JF

These results apply only to the samples tested.

RL - Reporting Limit

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

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

Reviewed by: 
Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported 9/27/2011
Report ID S1108326001

ProjectName: Reno Creek Project
Lab ID: S1108326-001
ClientSample ID: SM6-003-110817
COC: RC 08356

WorkOrder: S1108326
CollectionDate: 8/17/2011 10:11:00 AM
DateReceived: 8/17/2011 4:44:00 PM
FieldSampler: RM
Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Data Quality (Cation Sum, Anion Sum, etc.), Metals - Dissolved (Aluminum, Arsenic, etc.), Metals - Suspended (Uranium), and Metals - Total (Iron, Manganese).

These results apply only to the samples tested.

RL - Reporting Limit

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

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

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



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported 9/27/2011
Report ID S1108326001

ProjectName: Reno Creek Project
Lab ID: S1108326-001
ClientSample ID: SM6-003-110817
COC: RC 08356

WorkOrder: S1108326
CollectionDate: 8/17/2011 10:11:00 AM
DateReceived: 8/17/2011 4:44:00 PM
FieldSampler: RM
Matrix: Water

Table with columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Dissolved (Gross Alpha, Gross Beta, Lead 210, etc.) and Radionuclides - Suspended (Lead 210, Polonium 210, Radium 226, 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: S1108326
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108326001

Alkalinity

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

Sample ID	RunNo: 73591	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/19/11 16:02	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 73591	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	08/19/11 15:54	Alkalinity, Total (As CaCO3)	585	5	601		97.3	90 - 110	

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

Sample ID	RunNo: 73591	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108359-001AD	08/19/11 20:12	Alkalinity, Bicarbonate as HCO3	253	5	254	0.458		20	
		Alkalinity, Carbonate as CO3	ND	5	ND			20	
		Alkalinity, Total (As CaCO3)	207	5	208	0.458		20	

Conductivity

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 73591	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/19/11 16:02	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 73591	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	08/19/11 15:54	Electrical Conductivity	1090	5	1120		97.3	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 73591	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108359-001AD	08/19/11 20:12	Electrical Conductivity	1680	5	1680	0.0594		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: S1108326
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108326001

Dissolved Mercury by EPA 245.1 - Water

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

Sample ID	RunNo: 74003	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	08/31/11 12:06	Mercury	ND	0.001					

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

Sample ID	RunNo: 74003	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	08/31/11 12:04	Mercury	0.002	0.001	0.002		95.9	85 - 115	

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

Sample ID	RunNo: 74003	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108296-001D	08/31/11 12:59	Mercury	0.002	0.001	0.00244	ND	81.6	70 - 130	

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

Sample ID	RunNo: 74003	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108296-001D	08/31/11 13:01	Mercury	0.002	0.001	0.002	2.08	79.9	20	

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

Sample ID	RunNo: 74003	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108296-001D	08/31/11 12:57	Mercury	ND	0.001	ND			20	

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1108326
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108326001

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

Sample ID	RunNo: 73590	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	08/19/11 12:58	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: 73590	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	08/19/11 13:00	Aluminum	1.0	0.1	1		102	85 - 115	
		Boron	1.0	0.1	1		99.0	85 - 115	
		Chromium	1.04	0.01	1		104	85 - 115	
		Iron	1.00	0.05	1		100	85 - 115	
		Manganese	1.04	0.02	1		104	85 - 115	
		Nickel	1.03	0.01	1		103	85 - 115	
		Zinc	1.03	0.01	1		103	85 - 115	

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

Sample ID	RunNo: 73590	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108354-003CS	08/19/11 14:04	Aluminum	0.6	0.1	0.5	ND	114	70 - 130	
		Boron	0.6	0.1	0.5	ND	107	70 - 130	
		Chromium	0.55	0.01	0.5	ND	109	70 - 130	
		Iron	1.59	0.05	0.5	1.13	93.2	70 - 130	
		Manganese	0.91	0.02	0.5	0.39	105	70 - 130	
		Nickel	0.51	0.01	0.5	ND	102	70 - 130	
		Zinc	0.53	0.01	0.5	ND	105	70 - 130	

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

Sample ID	RunNo: 73590	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108354-003CSD	08/19/11 14:06	Aluminum	0.6	0.1	0.6	3.71	110	20	
		Boron	0.6	0.1	0.6	1.23	105	20	
		Chromium	0.53	0.01	0.55	3.48	105	20	
		Iron	1.60	0.05	1.59	0.207	93.9	20	
		Manganese	0.90	0.02	0.91	0.736	103	20	
		Nickel	0.49	0.01	0.51	3.41	98.0	20	
		Zinc	0.50	0.01	0.53	4.68	99.7	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: S1108326
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108326001

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 73590	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108354-002CD	08/19/11 13:59	Aluminum	ND	0.1	ND			20	
		Boron	ND	0.1	ND			20	
		Chromium	ND	0.01	ND			20	
		Iron	1.19	0.05	1.01	18.2		20	
		Manganese	0.21	0.02	0.17	18.2		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: 73678	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
INIT CAL BLANK	08/23/11 12:37	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: 73678	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	08/23/11 12:45	Arsenic	0.102	0.005	0.1		102	85 - 115	
		Barium	ND	0.5	0.1		94.9	85 - 115	
		Cadmium	0.102	0.002	0.1		102	85 - 115	
		Copper	0.10	0.01	0.1		95.8	85 - 115	
		Lead	0.10	0.02	0.1		96.9	85 - 115	
		Molybdenum	0.10	0.02	0.1		102	85 - 115	
		Selenium	0.101	0.005	0.1		101	85 - 115	
		Uranium	0.095	0.001	0.1		95.2	85 - 115	
		Vanadium	0.10	0.02	0.1		95.1	85 - 115	

- 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: S1108326
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108326001

Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 73678	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108330-001DS	08/23/11 16:09	Arsenic	1.14	0.005	1.1	ND	104	70 - 130	
		Barium	1.1	0.5	1.1	ND	98.2	70 - 130	
		Cadmium	1.14	0.002	1.1	ND	104	70 - 130	
		Copper	1.04	0.01	1.1	ND	94.5	70 - 130	
		Lead	1.06	0.02	1.1	ND	96.0	70 - 130	
		Molybdenum	1.20	0.02	1.1	ND	109	70 - 130	
		Selenium	1.12	0.005	1.1	ND	102	70 - 130	
		Uranium	1.08	0.001	1.1	0.004	97.8	70 - 130	
		Vanadium	1.06	0.02	1.1	ND	96.8	70 - 130	

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

Sample ID	RunNo: 73678	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108330-001DMSD	08/23/11 16:13	Arsenic	1.14	0.005	1.14	0.303	104	20	
		Barium	1.1	0.5	1.1	1.73	96.5	20	
		Cadmium	1.15	0.002	1.14	0.235	104	20	
		Copper	1.04	0.01	1.04	0.0676	94.4	20	
		Lead	1.05	0.02	1.06	0.546	95.4	20	
		Molybdenum	1.20	0.02	1.20	0.161	109	20	
		Selenium	1.12	0.005	1.12	0.331	102	20	
		Uranium	1.09	0.001	1.08	0.515	98.3	20	
		Vanadium	1.08	0.02	1.06	1.19	97.9	20	

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

Sample ID	RunNo: 73678	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108330-001DD	08/23/11 16:05	Arsenic	ND	0.005	ND			20	
		Barium	ND	0.5	ND			20	
		Cadmium	ND	0.002	ND			20	
		Copper	ND	0.01	ND			20	
		Lead	ND	0.02	ND			20	
		Molybdenum	ND	0.02	ND			20	
		Selenium	ND	0.005	ND			20	
		Uranium	0.004	0.001	0.004	0.630		20	
		Vanadium	ND	0.02	ND			20	

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1108326
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108326001

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

Sample ID	RunNo: 73591	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/19/11 16:02	Fluoride	ND	0.1					

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

Sample ID	RunNo: 73591	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	08/19/11 15:54	Fluoride	2.9	0.1	2.96		97.2	90 - 110	

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

Sample ID	RunNo: 73591	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108362-004ASPK	08/19/11 22:26	Fluoride	3.9	0.1	2.5	1.3	106	80 - 120	

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

Sample ID	RunNo: 73591	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108342-001AD	08/19/11 17:28	Fluoride	0.2	0.1	0.2	1.06		20	

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

Sample ID	RunNo: 74609	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-249	09/13/11 7:11	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 74609	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-249	09/13/11 7:11	Gross Alpha (Dissolved)	82	2	73.6		112	83 - 133	
		Gross Beta (Dissolved)	130	3	126		103	88 - 115	

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

Sample ID	RunNo: 74609	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108331-001FMS	09/18/11 22:31	Gross Alpha (Dissolved)	112	2	147	3	74.5	48 - 153	
		Gross Beta (Dissolved)	276	4	252	7	107	60 - 140	

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

Sample ID	RunNo: 74609	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108356-001FDUP	09/18/11 22:31	Gross Alpha (Dissolved)	40	2	40	1.27		20	
		Gross Beta (Dissolved)	19	4	18	3.75		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: S1108326
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108326001

Anions by ION Chromatography

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

Sample ID	RunNo: 73646	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/22/11 9:09	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 73646	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	08/22/11 9:21	Chloride	30	1	30		101	90 - 110	
		Sulfate	142	1	150		94.6	90 - 110	

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

Sample ID	RunNo: 73646	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108328-001ASPK	08/22/11 17:46	Chloride	49	1	55	4	81.9	80 - 120	
		Sulfate	1060	1	440	637	95.8	80 - 120	

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

Sample ID	RunNo: 73646	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108328-001AD	08/22/11 17:35	Chloride	4	1	4	0.0515		20	
		Sulfate	633	1	637	0.579		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: S1108326
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108326001

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

Sample ID	RunNo: 73589	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	08/19/11 12:58	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 73589	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	08/19/11 13:02	Calcium	41	1	40		103	85 - 115	
		Magnesium	40	1	40		100	85 - 115	
		Potassium	39	1	40		97.6	85 - 115	
		Sodium	38	1	40		95.7	85 - 115	

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

Sample ID	RunNo: 73589	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108354-003AS	08/19/11 14:04	Calcium	437	1	50	401	70.8	70 - 130	
		Magnesium	208	1	50	151	113	70 - 130	
		Potassium	89	1	50	35	108	70 - 130	
		Sodium	207	1	50	154	106	70 - 130	

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

Sample ID	RunNo: 73589	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108354-003ASD	08/19/11 14:06	Calcium	443	1	437	1.38	82.9	20	
		Magnesium	207	1	208	0.326	112	20	
		Potassium	88	1	89	0.215	108	20	
		Sodium	210	1	207	1.37	112	20	

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

Sample ID	RunNo: 73589	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108354-002AD	08/19/11 13:59	Calcium	599	1	505	18.6		20	
		Magnesium	272	1	224	21.7		20	R
		Potassium	50	1	43	15.7		20	
		Sodium	263	1	225	17.1		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: S1108326
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108326001

Nitrogen, Ammonia (as N)

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

Sample ID	RunNo: 73895	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/29/11 12:18	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 73895	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	08/29/11 12:20	Nitrogen, Ammonia (As N)	8.8	0.1	8.93		98.9	90 - 110	

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

Sample ID	RunNo: 73895	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108431-001B	08/29/11 14:06	Nitrogen, Ammonia (As N)	10.4	0.05	10	0.27	102	80 - 120	

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

Sample ID	RunNo: 73895	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108431-001B	08/29/11 14:05	Nitrogen, Ammonia (As N)	0.21	0.05	0.27	20.6		20	R

Nitrogen, Nitrate-Nitrite (as N)

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

Sample ID	RunNo: 73796	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	08/25/11 12:36	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 73796	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	08/25/11 12:38	Nitrogen, Nitrate-Nitrite (as N)	10.1	0.1	10		101	90 - 110	

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

Sample ID	RunNo: 73796	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108330-001C	08/25/11 15:54	Nitrogen, Nitrate-Nitrite (as N)	8.9	0.1	10	ND	88.6	80 - 120	

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

Sample ID	RunNo: 73796	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108330-001C	08/25/11 15:53	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1	ND			20	

Qualifiers:

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108326
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108326001

Lead 210 and Polonium 210

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

Sample ID	RunNo: 74959	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

MB11-257 09/22/11 18:49 Lead 210 (Dissolved) ND 1

Sample ID	RunNo: 74960	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

MB11-257 09/23/11 8:54 Polonium 210 (Dissolved) ND 1

Sample ID	RunNo: 74966	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

MB11-257 09/23/11 13:27 Lead 210 (Suspended) ND 1

Sample ID	RunNo: 74967	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

MB11-257 09/23/11 11:30 Polonium 210 (Suspended) ND 1

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

Sample ID	RunNo: 74959	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

LCS11-257 09/22/11 18:49 Lead 210 (Dissolved) 13 1 12.9 103 67.6 - 131

Sample ID	RunNo: 74960	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

LCS11-257 PO 09/23/11 8:54 Polonium 210 (Dissolved) 3 1 2.64 132 35.1 - 175

Sample ID	RunNo: 74966	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

LCS11-257 09/22/11 23:02 Lead 210 (Suspended) 15 1 12.9 114 60.3 - 141

Sample ID	RunNo: 74967	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

LCS11-257 PO 09/23/11 11:30 Polonium 210 (Suspended) 4 1 2.64 144 48.6 - 156

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

Sample ID	RunNo: 74959	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

S1108357-001FMS 09/22/11 18:49 Lead 210 (Dissolved) 14 1 12.9 1 102 66 - 133

Sample ID	RunNo: 74960	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

S1108356-001FMS 09/23/11 8:54 Polonium 210 (Dissolved) 11 1 12.9 ND 83.6 20.9 - 160

Sample ID	RunNo: 74966	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

S1108327-001FMS 09/22/11 23:02 Lead 210 (Suspended) 15 1 12.9 ND 114 62.4 - 132

Sample ID	RunNo: 74967	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

S1108327-001FMS 09/23/11 11:30 Polonium 210 (Suspended) 10 1 12.9 ND 79.0 28 - 173

- 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: S1108326
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108326001

Lead 210 and Polonium 210

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

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
-----------	--------	---------	--------	----	----------	------	------	--------------	------

S1108358-001FDUP 09/22/11 18:49 Lead 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
-----------	--------	---------	--------	----	----------	------	------	--------------	------

S1108358-001FDUP 09/23/11 8:54 Polonium 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
-----------	--------	---------	--------	----	----------	------	------	--------------	------

S1108328-001FDUP 09/22/11 23:02 Lead 210 (Suspended) 1 1 1 7.23 20

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
-----------	--------	---------	--------	----	----------	------	------	--------------	------

S1108328-001FDUP 09/23/11 11:30 Polonium 210 (Suspended) 0.4 ± 0.4 1 ND 20

Radium 228

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------	---------	--------	----	-------	----------	------	--------------	------

MB11-255 09/15/11 16:49 Radium 228 (Dissolved) ND 1

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------	---------	--------	----	-------	----------	------	--------------	------

LCS11-255 09/15/11 16:49 Radium 228 (Dissolved) 11 1 10 105 74.9 - 122

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------	---------	--------	----	-------	----------	------	--------------	------

S1108329-001FMS 09/15/11 16:49 Radium 228 (Dissolved) 13 1 10 3 101 48.4 - 167

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

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
-----------	--------	---------	--------	----	----------	------	------	--------------	------

S1108330-001FDUP 09/15/11 16:49 Radium 228 (Dissolved) ND 1 ND 20

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108326
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108326001

Radium 226 by SM 7500

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

Sample ID	RunNo: 73818	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-234	08/25/11 11:54	Radium 226 (Dissolved)	ND	0.2					

Sample ID	RunNo: 74256	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-243	09/06/11 16:29	Radium 226 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 73818	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-234	08/25/11 11:54	Radium 226 (Dissolved)	4.4	0.2	5		87.9	62.5 - 125	

Sample ID	RunNo: 74256	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-243	09/06/11 16:29	Radium 226 (Suspended)	5.0	0.2	5.06		98.1	56.4 - 132	

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

Sample ID	RunNo: 73818	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108250-002EMS	08/25/11 17:40	Radium 226 (Dissolved)	5.0	0.2	5	ND	101	41.6 - 146	

Sample ID	RunNo: 74256	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108250-002EMS	09/06/11 16:29	Radium 226 (Suspended)	5.1	0.2	5.06	ND	100	51.4 - 135	

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

Sample ID	RunNo: 73818	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108327-001FDUP	08/25/11 11:54	Radium 226 (Dissolved)	0.8	0.2	0.7	8.22		20	

Sample ID	RunNo: 74256	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108250-001FDUP	09/06/11 16:29	Radium 226 (Suspended)	ND	0.2	ND			20	

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1108326
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108326001

Thorium 230 in WaterSample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 74929	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-255	09/18/11 15:03	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 74995	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-258	09/21/11 15:26	Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 74929	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-255	09/18/11 15:04	Thorium 230 (Dissolved)	11	0.2	12		88.5	67.1 - 134	

Sample ID	RunNo: 74995	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-258	09/21/11 15:26	Thorium 230 (Suspended)	13	0.2	12		102	69.2 - 127	

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

Sample ID	RunNo: 74929	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108297-001FDUP	09/20/11 9:40	Thorium 230 (Dissolved)	ND	0.2	ND			20	

Sample ID	RunNo: 74995	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108298-001FDUP	09/21/11 15:26	Thorium 230 (Suspended)	ND	0.2	ND			20	

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

Sample ID	RunNo: 73897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R73897	08/18/11 0:00	Radon-222	ND	40					L

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

Sample ID	RunNo: 73897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R73897	08/18/11 0:00	Radon-222	23600	100	22500		105	75 - 125	L

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

Sample ID	RunNo: 73897	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108326-001A	08/18/11 0:00	Radon-222	100	50	120	16.0		20	L

Silica as SiO2Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 73594	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	08/19/11 12:58	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 73594	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	08/19/11 13:00	Silica as SiO2	2.1	0.1	2.14		97.2	85 - 115	

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: S1108326
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108326001

Solids By SM 2540

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

Sample ID	RunNo: 73720	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	08/19/11 8:10	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 73720	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	08/19/11 8:15	Total Dissolved Solids (180)	220	10	226		99.1	90 - 110	

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

Sample ID	RunNo: 73720	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108297-001A	08/19/11 8:30	Total Dissolved Solids (180)	1490	10	1460	1.92		20	

Total (200.2) Metals by EPA 200.7 ICP - Water

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

Sample ID	RunNo: 73674	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-5395	08/23/11 15:58	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 73674	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-5395	08/23/11 16:00	Iron	0.48	0.05	0.5		95.5	85 - 115	
		Manganese	0.19	0.02	0.2		96.5	85 - 115	

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

Sample ID	RunNo: 73674	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108410-003ES	08/23/11 17:58	Iron	0.54	0.05	0.5	0.08	92.1	70 - 130	
		Manganese	0.28	0.02	0.2	0.09	93.4	70 - 130	

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

Sample ID	RunNo: 73674	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108365-001DD	08/23/11 15:25	Iron	ND	0.05	ND			20	
		Manganese	ND	0.02	ND			20	

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108326
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108326001

Suspended Natural Uranium

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

Sample ID	RunNo: 73822	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
INIT CAL BLANK	08/28/11 9:48	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 73822	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	08/28/11 9:53	Uranium Suspended	0.106	0.0003	0.1		106	85 - 115	

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

Sample ID	RunNo: 73822	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108296-001FS	08/28/11 10:44	Uranium Suspended	1.16	0.0003	1.1	ND	106	70 - 130	

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

Sample ID	RunNo: 73822	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108296-001FD	08/28/11 10:41	Uranium Suspended	ND	0.0003	ND			20	

pH Water

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

Sample ID	RunNo: 73591	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	08/19/11 15:54	pH	8.6	0.1	8.48		101	90 - 110	

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

Sample ID	RunNo: 73591	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108359-001AD	08/19/11 20:12	pH	7.8	0.1	7.8	0.328		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) 672-9945

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08356

- CHAIN OF CUSTODY RECORD -

Telephone #

Client Name: **AUC LLC**
 Report Address: **peavendor@auc-llc.com; mickerson@trccorp.com; jshriver@trccorp.com**
 Invoice Address: **AUC LLC**
 900 WENNER CT SUITE 150
 CASPER WY 82401

Project Identification: **Reno Creek Project**
 Contact Name: **TRAC Mickerson**
 Email: **mickerson@trccorp.com**
 Phone: **307 205 0696**
 Purchase Order #: **307 205 0696**

Sampler (Signature/Printed): *[Signature]*
 ANALYSES / PARAMETERS: **307 205 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	S1108326-001	8-17-11	10:11 AM	SM6-003-110817	WT	13	X							GROUNDDWATER
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														

LAB COMMENTS: Relinquished By (Signature/Printed) *[Signature]* DATE: 8-17-11 TIME: 3:54
 Received By (Signature/Printed) *[Signature]* DATE: 8/17/11 TIME: 10:44
[Signature] DATE: 8/18/11 TIME: 13:21

SHIPPING INFO: UPS Fed Express US Mail Hand Carried Other _____

MATRIX CODES: Water Soil Solid Trip Blank Other _____

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

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

ADDITIONAL REMARKS: