



Tuesday, September 27, 2011

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

RE: Reno Creek Project
Orde

r No.: S1108298

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples UM1-004-110816 on August 16, 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: S1108298

CASE NARRATIVE
Report ID: S1108298001

Sample UM1-004-110816 was received on August 16, 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-R73902 - General Parameters/Radon-222 - Analyzed by a contract laboratory
LCS-R73902 - General Parameters/Radon-222 - Analyzed by a contract laboratory
S1108298-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory

Reviewed by:

Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401
ProjectName: Reno Creek Project
Lab ID: S1108298-001
ClientSample ID: UM1-004-110816
COC: RC 08354

Date Reported 9/27/2011
Report ID S1108298001
WorkOrder: S1108298
CollectionDate: 8/16/2011 2:08:00 PM
DateReceived: 8/16/2011 4:40:00 PM
FieldSampler: RM
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

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Lakewood, CO 80401

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WorkOrder: S1108298
CollectionDate: 8/16/2011 2:08:00 PM
DateReceived: 8/16/2011 4:40:00 PM
FieldSampler: RM
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	202	mg/L		5	SM 2320B	8/19/2011 4:12:44 PM	AMB
Alkalinity, Bicarbonate as HCO3	246	mg/L		5	SM 2320B	8/19/2011 4:12:44 PM	AMB
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	8/19/2011 4:12:44 PM	AMB
Chloride	30	mg/L		1	EPA 300.0	8/18/2011 1:12:00 PM	ARF
Fluoride	0.6	mg/L		0.1	SM 4500FC	8/19/2011 4:12:44 PM	AMB
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	8/25/2011 3:47:00 PM	MEL
Sulfate	61	mg/L		1	EPA 300.0	8/18/2011 1:12:00 PM	ARF
Calcium	16	mg/L		1	EPA 200.7	8/18/2011 4:14:30 PM	DG
Magnesium	3	mg/L		1	EPA 200.7	8/18/2011 4:14:30 PM	DG
Potassium	4	mg/L		1	EPA 200.7	8/18/2011 4:14:30 PM	DG
Sodium	121	mg/L		1	EPA 200.7	8/18/2011 4:14:30 PM	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	9/1/2011 6:37:00 PM	MEL
Silica as SiO2	9	mg/L		1	EPA 200.7	8/18/2011 4:14:30 PM	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	8/19/2011 4:12:44 PM	AMB
Electrical Conductivity	638	µmhos/cm		5	SM 2510B	8/19/2011 4:12:44 PM	AMB
Total Dissolved Solids (180)	400	mg/L		10	SM 2540	8/19/2011 8:35:00 AM	JF
Data Quality							
Cation Sum	6.38	meq/L		0.01	SM 1030E	8/29/2011 4:40:22 PM	LJK
Anion Sum	6.19	meq/L		0.01	SM 1030E	8/29/2011 4:40:22 PM	LJK
Cation-Anion Balance (± 5%)	1.50	%		0.01	SM 1030E	8/29/2011 4:40:22 PM	LJK
Solids, Total Dissolved (Calc)	370	mg/L		10	SM 1030E	8/29/2011 4:40:22 PM	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.08	dec. %		0.01	Calculation	8/29/2011 4:54:16 PM	LJK

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Lacey Ketron, Water Lab Supervisor



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Matrix: Water

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

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Lacey Ketron, Water Lab Supervisor



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Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Dissolved (Gross Alpha, Lead 210, etc.), Radionuclides - Suspended (Lead 210, Polonium 210, etc.), and Radionuclides - Total (Radon 222).

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: S1108298
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108298001

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	

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ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108298
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108298001

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:**
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 - 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: S1108298
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108298001

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 73541	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	08/18/11 13:56	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: 73541	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	08/18/11 13:59	Aluminum	1.0	0.1	1		101	85 - 115	
		Boron	1.0	0.1	1		102	85 - 115	
		Chromium	1.04	0.01	1		104	85 - 115	
		Iron	1.03	0.05	1		103	85 - 115	
		Manganese	1.03	0.02	1		103	85 - 115	
		Nickel	1.04	0.01	1		104	85 - 115	
		Zinc	1.01	0.01	1		101	85 - 115	

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

Sample ID	RunNo: 73541	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108332-001CS	08/18/11 16:33	Aluminum	0.6	0.1	0.5	ND	109	70 - 130	
		Boron	0.6	0.1	0.5	ND	106	70 - 130	
		Chromium	0.56	0.01	0.5	ND	112	70 - 130	
		Iron	0.76	0.05	0.5	0.25	101	70 - 130	
		Manganese	0.58	0.02	0.5	0.06	105	70 - 130	
		Nickel	0.54	0.01	0.5	ND	108	70 - 130	
		Zinc	0.53	0.01	0.5	ND	106	70 - 130	

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

Sample ID	RunNo: 73541	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108332-001CSD	08/18/11 16:35	Aluminum	0.5	0.1	0.6	1.49	107	20	
		Boron	0.6	0.1	0.6	1.16	108	20	
		Chromium	0.55	0.01	0.56	1.67	110	20	
		Iron	0.76	0.05	0.76	0.225	101	20	
		Manganese	0.57	0.02	0.58	1.19	103	20	
		Nickel	0.53	0.01	0.54	1.45	106	20	
		Zinc	0.53	0.01	0.53	0.752	106	20	

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 - L Analyzed by a contract laboratory
 - O Outside the Range of Dilutions
 - S Spike Recovery outside accepted recovery limits
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1108298
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108298001

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

Sample ID	RunNo: 73541	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108313-005CD	08/18/11 16:28	Aluminum	ND	0.1	ND			20	
		Boron	ND	0.1	ND			20	
		Chromium	ND	0.01	ND			20	
		Iron	0.23	0.05	0.23	2.78		20	
		Manganese	0.31	0.02	0.32	2.66		20	
		Nickel	ND	0.01	ND			20	
		Zinc	ND	0.01	ND			20	

Dissolved Metals by ICPMS EPA 200.8 - WaterSample 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	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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Date: 9/27/2011
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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
S1108419-011CS	08/23/11 15:05	Arsenic	1.18	0.005	1.1	0.048	102	70 - 130	
		Barium	1.1	0.5	1.1	ND	95.4	70 - 130	
		Cadmium	1.13	0.002	1.1	ND	103	70 - 130	
		Copper	1.05	0.01	1.1	ND	95.3	70 - 130	
		Lead	1.06	0.02	1.1	ND	96.4	70 - 130	
		Molybdenum	1.15	0.02	1.1	ND	104	70 - 130	
		Selenium	1.11	0.005	1.1	ND	101	70 - 130	
		Uranium	1.07	0.001	1.1	0.003	96.9	70 - 130	
		Vanadium	1.29	0.02	1.1	0.25	94.9	70 - 130	

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

Sample ID	RunNo: 73678	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108419-011CMSD	08/23/11 15:09	Arsenic	1.17	0.005	1.18	0.359	102	20	
		Barium	1.1	0.5	1.1	1.11	96.5	20	
		Cadmium	1.13	0.002	1.13	0.173	103	20	
		Copper	1.06	0.01	1.05	0.415	95.7	20	
		Lead	1.06	0.02	1.06	0.0396	96.4	20	
		Molybdenum	1.16	0.02	1.15	0.738	105	20	
		Selenium	1.11	0.005	1.11	0.345	101	20	
		Uranium	1.06	0.001	1.07	0.345	96.5	20	
		Vanadium	1.28	0.02	1.29	0.721	94.1	20	

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

Sample ID	RunNo: 73678	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108419-011CD	08/23/11 15:01	Arsenic	0.048	0.005	0.048	0.116		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	0.003	0.001	0.003	0.741		20	
		Vanadium	0.25	0.02	0.25	0.115		20	

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Fluoride by SM 4500

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	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
S1108359-001AD	08/19/11 20:12	Fluoride	0.5	0.1	0.5	9.56		20	

Gross Alpha, Beta by SM 7110B

Sample 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
S1108281-001FMS	09/13/11 7:11	Gross Alpha (Dissolved)	168	2	147	7	109	48 - 153	
		Gross Beta (Dissolved)	271	3	252	3	106	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	

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Anions by ION Chromatography

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

Sample ID	RunNo: 73547	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/18/11 10:54	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 73547	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	08/18/11 11:05	Chloride	30	1	30		101	90 - 110	
		Sulfate	141	1	150		93.9	90 - 110	

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

Sample ID	RunNo: 73547	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108334-002ASPK	08/18/11 13:58	Chloride	14	1	10	4	91.0	80 - 120	
		Sulfate	515	1	80	437	97.8	80 - 120	

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

Sample ID	RunNo: 73547	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108334-002AD	08/18/11 13:46	Chloride	4	1	4	7.41		20	
		Sulfate	433	1	437	0.899		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: S1108298
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108298001

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

Sample ID	RunNo: 73540	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	08/18/11 13:56	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 73540	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	08/18/11 14:01	Calcium	40	1	40		99.0	85 - 115	
		Magnesium	39	1	40		96.3	85 - 115	
		Potassium	40	1	40		98.7	85 - 115	
		Sodium	40	1	40		99.6	85 - 115	

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

Sample ID	RunNo: 73540	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108341-003AS	08/18/11 17:33	Calcium	94	1	50	45	97.6	70 - 130	
		Magnesium	75	1	50	23	104	70 - 130	
		Potassium	72	1	50	16	111	70 - 130	
		Sodium	173	1	50	121	104	70 - 130	

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

Sample ID	RunNo: 73540	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108341-003ASD	08/18/11 17:35	Calcium	92	1	94	2.60	92.7	20	
		Magnesium	73	1	75	3.00	99.6	20	
		Potassium	68	1	72	4.68	104	20	
		Sodium	169	1	173	2.18	96.1	20	

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

Sample ID	RunNo: 73540	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108341-002AD	08/18/11 17:28	Calcium	2	1	2	0.326		20	
		Magnesium	1	1	1	1.16		20	
		Potassium	4	1	4	0.641		20	
		Sodium	326	1	329	0.893		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: S1108298
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108298001

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

Sample ID	RunNo: 74215	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/01/11 18:08	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 74215	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	09/01/11 18:10	Nitrogen, Ammonia (As N)	10.2	0.1	10		102	90 - 110	

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

Sample ID	RunNo: 74215	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108563-001C	09/01/11 18:40	Nitrogen, Ammonia (As N)	10.4	0.1	10	0.4	99.9	80 - 120	

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

Sample ID	RunNo: 74215	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108563-001C	09/01/11 18:39	Nitrogen, Ammonia (As N)	0.4	0.1	0.4	3.07		20	

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: S1108298
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108298001

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

Sample ID	RunNo: 74499	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-235	09/13/11 16:17	Lead 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 74500	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-235	09/02/11 11:54	Polonium 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 74966	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-257	09/23/11 13:27	Lead 210 (Suspended)	ND	1					
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Sample ID	RunNo: 74967	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-257	09/23/11 11:30	Polonium 210 (Suspended)	ND	1					
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Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 74499	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-235	09/02/11 16:26	Lead 210 (Dissolved)	14	1	13		106	67.6 - 131	
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Sample ID	RunNo: 74500	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-235	09/02/11 11:54	Polonium 210 (Dissolved)	8	1	13		59.5	35.1 - 175	
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Sample ID	RunNo: 74966	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-257	09/22/11 23:02	Lead 210 (Suspended)	15	1	12.9		114	60.3 - 141	
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Sample ID	RunNo: 74967	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-257 PO	09/23/11 11:30	Polonium 210 (Suspended)	4	1	2.64		144	48.6 - 156	
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Sample Type **MS** Units: pCi/L

Sample ID	RunNo: 74499	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108250-004EMS	09/02/11 16:26	Lead 210 (Dissolved)	15	1	13	2	102	66 - 133	
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Sample ID	RunNo: 74500	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108250-004EMS	09/02/11 11:54	Polonium 210 (Dissolved)	4	1	13	ND	29.3	20.9 - 160	
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Sample ID	RunNo: 74966	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108326-001FMS	09/22/11 23:02	Lead 210 (Suspended)	14	1	12.9	1	101	62.4 - 132	
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Sample ID	RunNo: 74967	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108326-001FMS	09/23/11 11:30	Polonium 210 (Suspended)	15	1	12.9	ND	115	28 - 173	
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Qualifiers:

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108298
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108298001

Lead 210 and Polonium 210

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

Sample ID	RunNo: 74499	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108252-004EDUP 09/02/11 16:26 Lead 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo: 74500	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108252-004EDUP 09/02/11 11:54 Polonium 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo: 74966	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108328-001FDUP 09/22/11 23:02 Lead 210 (Suspended) 1 1 1 7.23 20

Sample ID	RunNo: 74967	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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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: 74665	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-255 09/15/11 16:49 Radium 228 (Dissolved) ND 1

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

Sample ID	RunNo: 74665	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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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: 74665	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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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: 74665	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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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: S1108298
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108298001

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: S1108298
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108298001

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: 73902	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R73902	08/17/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 73902	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R73902	08/17/11 0:00	Radon-222	23400	100	22500		104	75 - 125	L

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

Sample ID	RunNo: 73902	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108298-001A	08/17/11 0:00	Radon-222	260	50	270	2.25		20	L

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

Sample ID	RunNo: 73543	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	08/18/11 13:56	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 73543	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	08/18/11 13:59	Silica as SiO2	2.2	0.1	2.14		100	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: S1108298
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108298001

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-5393	08/23/11 13:43	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 73643	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-5393	08/22/11 23:19	Iron	0.46	0.05	0.5		92.4	85 - 115	
		Manganese	0.18	0.02	0.2		91.9	85 - 115	

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

Sample ID	RunNo: 73643	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108297-001ES	08/22/11 21:48	Iron	0.49	0.05	0.5	ND	88.7	70 - 130	
		Manganese	0.27	0.02	0.2	0.09	89.1	70 - 130	

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

Sample ID	RunNo: 73643	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108296-001ED	08/22/11 21:43	Iron	ND	0.05	ND			20	
		Manganese	0.05	0.02	0.05	1.56		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: S1108298
Project: Reno Creek Project

Date: 9/27/2011
Report ID: S1108298001

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 82901 (307) 682-6945
 (307) 672-6945

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08354

- CHAIN OF CUSTODY RECORD -

Client Name: AUC LLC
 Report Address: peavendor@auc-llc.com; trickerson@treccorp.com; jsticker@treccorp.com
 Invoice Address: AUC LLC
 900 Weber Ct Suite 150
 Casper WY 82401

Project Identification: Reno Creek Project
 Contact Name: Tracy Nickerson
 Email: trickerson@treccorp.com
 Phone: 307 265 0196
 Purchase Order #: [blank]
 Quote #: [blank]

Sample (Signature/Printed): [Signature]
 ANALYSES / PARAMETERS: [blank]

Telephone #: [blank]

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	51108198-001	8-16-11	2:08 PM	UM1-004-110816	WT	13	X							GROUNDWATER
2	8298													
3	1-SK 4-19-11													
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														

LAB COMMENTS: Relinquished By (Signature/Printed): [Signature]

DATE: 8-16-11 TIME: 3:55
 Received By (Signature/Printed): [Signature]
 DATE: 8/16/11 TIME: 10:40

SHIPPING INFO: UPS Fed Express US Mail Hand Carried Other

MATRIX CODES: Water Soil Solid Trip Blank Other

TURNAROUND TIMES: 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? Sample Disposal: Lab Client

ADDITIONAL REMARKS: 4.1