



Friday, April 08, 2011

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

RE: Reno Creek Project

Order No.: S1102275

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples UM1-002-110222 on February 24, 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: 4/8/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1102275

CASE NARRATIVE
Report ID: S1102275002
(Replaces S1102275001)

Sample UMI-002-110222 was received on February 24, 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

S1102275-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory

Qualifiers by sample

S1102275-001 - Radiochemistry/Thorium 230 (Dissolved) - RPD outside accepted recovery limits
LCS-R67920 - General Parameters/Radon-222 - Analyzed by a contract laboratory
MB-R67920 - General Parameters/Radon-222 - Analyzed by a contract laboratory
S1102275-001 - Radiochemistry/Polonium 210 (Dissolved) - Spike Recovery 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 4/8/2011
Report ID S1102275002
(Replaces S1102275001)

ProjectName: Reno Creek Project
Lab ID: S1102275-001
ClientSample ID: UM1-002-110222
COC: RC 08006

WorkOrder: S1102275
CollectionDate: 2/22/2011 1:50:00 PM
DateReceived: 2/24/2011 10:03:00 AM
FieldSampler: JS
Matrix: Water

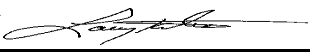
Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
Field						
pH Reading 1	8.35	s.u.			Field	2/22/2011 1:50:00 PM
pH Reading 2	8.35	s.u.			Field	2/22/2011 1:50:00 PM
pH Reading 3	8.36	s.u.			Field	2/22/2011 1:50:00 PM
Conductivity Reading 1	362	µmhos/cm			Field	2/22/2011 1:50:00 PM
Conductivity Reading 2	363	µmhos/cm			Field	2/22/2011 1:50:00 PM
Conductivity Reading 3	363	µmhos/cm			Field	2/22/2011 1:50:00 PM
Turbidity Reading 1	4.77	NTU			Field	2/22/2011 1:50:00 PM
Turbidity Reading 2	4.33	NTU			Field	2/22/2011 1:50:00 PM
Turbidity Reading 3	4.60	NTU			Field	2/22/2011 1:50:00 PM
Dissolved Oxygen Reading 1	0.75	mg/L			Field	2/22/2011 1:50:00 PM
Dissolved Oxygen Reading 2	0.71	mg/L			Field	2/22/2011 1:50:00 PM
Dissolved Oxygen Reading 3	0.69	mg/L			Field	2/22/2011 1:50:00 PM
Temperature Reading 1	6.94	°C			Field	2/22/2011 1:50:00 PM
Temperature Reading 2	7.00	°C			Field	2/22/2011 1:50:00 PM
Temperature Reading 3	6.97	°C			Field	2/22/2011 1:50:00 PM
Oxygen Reduction Potential Reading	-87.9	mV			Field	2/22/2011 1:50:00 PM
Oxygen Reduction Potential Reading	-93.1	mV			Field	2/22/2011 1:50:00 PM
Oxygen Reduction Potential Reading	-96.7	mV			Field	2/22/2011 1:50:00 PM
Purge Rate Reading 1	150	ml/min			Field	2/22/2011 1:50:00 PM
Purge Rate Reading 2	100	ml/min			Field	2/22/2011 1:50:00 PM
Purge Rate Reading 3	100	ml/min			Field	2/22/2011 1:50:00 PM
Water Level Reading 1	299.00	Ft			Field	2/22/2011 1:50:00 PM
Water Level Reading 2	299.04	Ft			Field	2/22/2011 1:50:00 PM
Water Level Reading 3	299.15	Ft			Field	2/22/2011 1:50:00 PM

These results apply only to the samples tested.

RL - Reporting Limit

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

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

Reviewed by: 
Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported 4/8/2011
Report ID S1102275002
(Replaces S1102275001)

ProjectName: Reno Creek Project
Lab ID: S1102275-001
ClientSample ID: UM1-002-110222
COC: RC 08006

WorkOrder: S1102275
CollectionDate: 2/22/2011 1:50:00 PM
DateReceived: 2/24/2011 10:03:00 AM
FieldSampler: JS
Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Chloride, etc.), General Parameters (pH, Conductivity), and Data Quality (Cation Sum, Anion Sum).

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: 4/8/2011
Report ID: S1102275002
(Replaces S1102275001)

ProjectName: Reno Creek Project
Lab ID: S1102275-001
ClientSample ID: UM1-002-110222
COC: RC 08006

WorkOrder: S1102275
CollectionDate: 2/22/2011 1:50:00 PM
DateReceived: 2/24/2011 10:03:00 AM
FieldSampler: JS
Matrix: Water

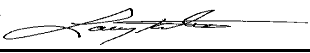
Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	2/24/2011 3:34:10 PM	DG
Arsenic	ND	mg/L		0.001	EPA 200.8	2/24/2011 3:40:02 PM	MS
Barium	ND	mg/L		0.1	EPA 200.8	2/24/2011 3:40:02 PM	MS
Boron	ND	mg/L		0.1	EPA 200.7	2/24/2011 3:34:10 PM	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	2/24/2011 3:40:02 PM	MS
Chromium	ND	mg/L		0.01	EPA 200.7	2/24/2011 3:34:10 PM	DG
Copper	ND	mg/L		0.01	EPA 200.8	2/24/2011 3:40:02 PM	MS
Iron	0.06	mg/L		0.05	EPA 200.7	2/24/2011 3:34:10 PM	DG
Lead	ND	mg/L		0.01	EPA 200.8	2/24/2011 3:40:02 PM	MS
Manganese	0.02	mg/L		0.01	EPA 200.7	2/24/2011 3:34:10 PM	DG
Mercury	ND	mg/L		0.001	EPA 245.1	3/1/2011 8:51:16 AM	BK
Molybdenum	0.01	mg/L		0.01	EPA 200.8	2/24/2011 3:40:02 PM	MS
Nickel	ND	mg/L		0.05	EPA 200.7	2/24/2011 3:34:10 PM	DG
Selenium	ND	mg/L		0.005	EPA 200.8	2/24/2011 3:40:02 PM	MS
Uranium	0.0068	mg/L		0.0003	EPA 200.8	2/24/2011 3:40:02 PM	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	2/24/2011 3:40:02 PM	MS
Zinc	ND	mg/L		0.01	EPA 200.7	2/24/2011 3:34:10 PM	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	3/2/2011 3:54:44 PM	MS
Metals - Total							
Iron	0.16	mg/L		0.05	EPA 200.7	2/28/2011 4:04:00 PM	DG
Manganese	0.02	mg/L		0.01	EPA 200.7	2/28/2011 4:04:00 PM	DG

These results apply only to the samples tested.

RL - Reporting Limit

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- 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 4/8/2011
Report ID S1102275002
(Replaces S1102275001)

ProjectName: Reno Creek Project
Lab ID: S1102275-001
ClientSample ID: UM1-002-110222
COC: RC 08006

WorkOrder: S1102275
CollectionDate: 2/22/2011 1:50:00 PM
DateReceived: 2/24/2011 10:03:00 AM
FieldSampler: JS
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.

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: S1102275
Project: Reno Creek Project

Date: 4/8/2011
Report ID: S1102275002

Test: **Alkalinity**

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

Sample ID	RunNo: 67708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	02/24/11 13:57	Alkalinity, Total (As CaCO3)	ND	5					
Sample ID	RunNo: 67708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	02/24/11 19:51	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 67708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	02/24/11 13:47	Alkalinity, Total (As CaCO3)	473	5	473		100	96.6 - 103	
Sample ID	RunNo: 67708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	02/24/11 19:42	Alkalinity, Total (As CaCO3)	478	5	473		101	96.6 - 103	

Test: **Conductivity**

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 67708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	02/24/11 13:57	Electrical Conductivity	ND	5					
Sample ID	RunNo: 67708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	02/24/11 19:51	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 67708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	02/24/11 13:47	Electrical Conductivity	981	5	1000		98.1	90 - 110	
Sample ID	RunNo: 67708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	02/24/11 19:42	Electrical Conductivity	969	5	1000		96.9	90 - 110	

Test: **Dissolved Mercury by EPA 245.1 - Water**

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

Sample ID	RunNo: 67820	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	03/01/11 8:49	Mercury	ND	0.001					

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

Sample ID	RunNo: 67820	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	03/01/11 8:47	Mercury	0.002	0.001	0.002		101	85 - 115	

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

Sample ID	RunNo: 67820	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1102275-001D	03/01/11 8:54	Mercury	0.002	0.001	0.002	ND	118	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: S1102275
Project: Reno Creek Project

Date: 4/8/2011

Report ID: S1102275002

Test: **Dissolved Mercury by EPA 245.1 - Water**

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

Sample ID	RunNo: 67820	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1102275-001D	03/01/11 8:52	Mercury	ND	0.001	ND	0		20	

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

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

Sample ID	RunNo: 67709	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICB	02/24/11 13:56	Aluminum	ND	0.1					
		Boron	ND	0.03					
		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: 67709	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICV Q	02/24/11 13:58	Aluminum	1.0	0.1	1		103	85 - 115	
		Boron	1.03	0.03	1		103	85 - 115	
		Chromium	1.04	0.01	1		104	85 - 115	
		Iron	1.04	0.05	1		104	85 - 115	
		Manganese	1.04	0.02	1		104	85 - 115	
		Nickel	1.04	0.01	1		104	85 - 115	
		Zinc	1.03	0.01	1		103	85 - 115	

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

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

Sample ID	RunNo: 67704	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Init Cal Blank	02/24/11 13:33	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					

- 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: S1102275
Project: Reno Creek Project

Date: 4/8/2011**Report ID:** S1102275002Test: **Dissolved Metals by ICPMS EPA 200.8 - Water**Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 67704	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	02/24/11 13:40	Arsenic	0.091	0.005	0.1		90.7	85 - 115	
		Barium	ND	0.5	0.1		85.5	85 - 115	
		Cadmium	0.088	0.002	0.1		87.5	85 - 115	
		Copper	0.09	0.01	0.1		89.8	85 - 115	
		Lead	0.09	0.02	0.1		93.6	85 - 115	
		Molybdenum	0.09	0.02	0.1		86.9	85 - 115	
		Selenium	0.092	0.005	0.1		91.8	85 - 115	
		Uranium	0.089	0.001	0.1		88.5	85 - 115	
		Vanadium	0.09	0.02	0.1		88.2	85 - 115	

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

Sample ID	RunNo: 67708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	02/24/11 13:57	Fluoride	ND	0.1					

Sample ID	RunNo: 67708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	02/24/11 19:51	Fluoride	ND	0.1					

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

Sample ID	RunNo: 67708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	02/24/11 13:47	Fluoride	3.0	0.1	2.82		106	86.1 - 114	

Sample ID	RunNo: 67708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	02/24/11 19:42	Fluoride	2.9	0.1	2.82		104	86.1 - 114	

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

Sample ID	RunNo: 68260	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-067	03/10/11 9:30	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 68260	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-067	03/10/11 9:30	Gross Alpha (Dissolved)	75	2	69		108	72.6 - 137	
		Gross Beta (Dissolved)	130	3	130		100	72.6 - 137	

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

Sample ID	RunNo: 68260	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1102275-001FMS	03/10/11 9:30	Gross Alpha (Dissolved)	106	2	69	22	122	44.4 - 137	
		Gross Beta (Dissolved)	137	3	130	9	98.9	44.4 - 137	

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: S1102275
Project: Reno Creek Project

Date: 4/8/2011

Report ID: S1102275002

Test: **Anions by ION Chromatography**

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

Sample ID	RunNo: 67710	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK	02/24/11 0:00	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 67710	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	02/24/11 13:38	Chloride	30	1	30		99.6	90 - 110	
		Sulfate	146	1	150		97.4	90 - 110	

Test: **Cations by ICP (Method 200.7)**

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

Sample ID	RunNo: 67707	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICB	02/24/11 13:56	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 67707	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICV 3	02/24/11 14:00	Calcium	39	1	40		97.4	85 - 115	
		Magnesium	39	1	40		97.2	85 - 115	
		Potassium	42	1	40		104	85 - 115	
		Sodium	39	1	40		98.3	85 - 115	

Test: **Nitrogen, Ammonia (as N)**

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

Sample ID	RunNo: 67725	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Blank	02/24/11 14:49	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 67725	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	02/24/11 14:51	Nitrogen, Ammonia (As N)	16.1	0.1	16		101	90 - 110	

- 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: S1102275
Project: Reno Creek Project

Date: 4/8/2011**Report ID:** S1102275002Test: **Nitrogen, Nitrate-Nitrite (as N)**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 67889	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	03/03/11 15:23	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 67889	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	03/03/11 15:25	Nitrogen, Nitrate-Nitrite (as N)	29.9	0.1	28.7		104	90 - 110	

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

Sample ID	RunNo: 68289	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R68289	03/14/11 16:36	Lead 210 (Suspended)	ND	1					

Sample ID	RunNo: 68289	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R68289	03/14/11 16:36	Lead 210 (Dissolved)	ND	1					

Sample ID	RunNo: 68303	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R68303	03/14/11 14:32	Polonium 210 (Suspended)	ND	1					

Sample ID	RunNo: 68303	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R68303	03/14/11 14:32	Polonium 210 (Dissolved)	ND	1					

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

Sample ID	RunNo: 68289	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R68289	03/14/11 16:36	Lead 210 (Dissolved)	15	1	13.2		113	50 - 150	
		Lead 210 (Suspended)	15	1	13.2		113	50 - 150	

Sample ID	RunNo: 68303	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R68303	03/14/11 14:32	Polonium 210 (Dissolved)	8	1	7.05		114	50 - 150	
		Polonium 210 (Suspended)	8	1	7.05		114	50 - 150	

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

Sample ID	RunNo: 68289	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1102275-001FMS	03/14/11 16:36	Lead 210 (Dissolved)	16	1	13.2	3	99.3	50 - 150	

Sample ID	RunNo: 68303	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1102275-001FMS	03/14/11 14:32	Polonium 210 (Dissolved)	2	1	13.2	ND	16.5	50 - 150	S

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: S1102275
Project: Reno Creek Project

Date: 4/8/2011

Report ID: S1102275002

Test: **Lead 210 and Polonium 210**

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

Sample ID	RunNo: 68289	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1102275-001FDUP	03/14/11 16:36	Lead 210 (Suspended)	2	1	2	14.5		20	
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Sample ID	RunNo: 68303	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1102275-001FDUP	03/14/11 14:32	Polonium 210 (Suspended)	ND	1	ND	0		20	
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Test: **Radium 228**

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

Sample ID	RunNo: 68060	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-060B	03/08/11 16:16	Radium 228 (Dissolved)	ND	1					
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Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 68060	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-060B	03/08/11 16:16	Radium 228 (Dissolved)	11	1					
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Test: **Radium 226 by SM 7500**

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

Sample ID	RunNo: 68106	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-060	03/09/11 15:54	Radium 226 (Dissolved)	ND	0.2					
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Sample ID	RunNo: 68215	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB-R68215	03/10/11 15:58	Radium 226 (Dissolved)	ND	0.2					
		Radium 226 (Suspended)	ND	0.2					

Sample ID	RunNo: 68215	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB-R68215	03/10/11 15:58	Radium 226 (Dissolved)	ND	0.2					
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Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 68106	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-060	03/09/11 15:54	Radium 226 (Dissolved)	4.8	0.2	5		96.4	69.3 - 130	
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Sample ID	RunNo: 68215	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS-R68215	03/10/11 15:58	Radium 226 (Dissolved)	5.0	0.2	5		99.0	69.3 - 130	
		Radium 226 (Suspended)	5.0	0.2	5		99.0	69.3 - 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: S1102275
Project: Reno Creek Project

Date: 4/8/2011

Report ID: S1102275002

Test: **Thorium 230 in Water**

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

Sample ID	RunNo: 68304	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R68304	03/14/11 9:12	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 68304	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R68304	03/14/11 9:12	Thorium 230 (Suspended)	ND	0.3					

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

Sample ID	RunNo: 68304	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R68304	03/14/11 9:12	Thorium 230 (Dissolved)	12	0.2	12		94.2	50 - 150	
		Thorium 230 (Suspended)	12	0.3	12		94.2	50 - 150	

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

Sample ID	RunNo: 68304	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1102275-001FDUP	03/14/11 9:12	Thorium 230 (Dissolved)	0.3	0.2	ND	0		20	R

Test: **Radon 222 by SM7500-RN**

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

Sample ID	RunNo: 67920	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R67920	02/23/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 67920	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R67920	02/23/11 0:00	Radon-222	23600	100	22500		105	75 - 125	L

Test: **Silica as SiO2**

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

Sample ID	RunNo: 67711	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICB	02/24/11 13:56	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 67711	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICV Q	02/24/11 13:58	Silica as SiO2	2.1	0.1	2.14		98.7	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: S1102275
Project: Reno Creek Project

Date: 4/8/2011

Report ID: S1102275002

Test: **Solids By SM 2540**

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

Sample ID	RunNo: 67760	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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Air 02/24/11 11:00 Total Dissolved Solids (180) ND 10

Sample ID	RunNo: 67760	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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Air 02/24/11 11:05 Total Dissolved Solids (180) ND 10

Sample ID	RunNo: 67760	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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DI 02/24/11 11:10 Total Dissolved Solids (180) ND 10

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

Sample ID	RunNo: 67760	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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Control 02/24/11 11:15 Total Dissolved Solids (180) 220 10 226 97.3 90 - 110

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

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

Sample ID	RunNo: 67802	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLK 2/25 TOT -4920 02/28/11 15:17 Iron ND 0.05
Manganese ND 0.02

Sample ID	RunNo: 67802	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLK 2/28 TOT -4922 02/28/11 15:59 Iron ND 0.05
Manganese ND 0.02

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

Sample ID	RunNo: 67802	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS 2/25 TOT -4920 02/28/11 15:20 Iron 0.50 0.05 0.5 99.7 85 - 115
Manganese 0.19 0.02 0.2 95.8 85 - 115

Sample ID	RunNo: 67802	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS 2/28 TOT -4922 02/28/11 16:01 Iron 0.50 0.05 0.5 100 85 - 115
Manganese 0.19 0.02 0.2 95.8 85 - 115

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

Sample ID	RunNo: 67802	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1102275-001E 02/28/11 16:06 Iron 0.16 0.05 0.16 1.46 20
Manganese 0.02 0.01 0.02 0.826 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: S1102275
Project: Reno Creek Project

Date: 4/8/2011
Report ID: S1102275002

Test: **Suspended Natural Uranium**

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

Sample ID	RunNo: 67857	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Init Cal Blank	03/02/11 15:36	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 67857	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
lcs	03/02/11 15:43	Uranium Suspended	0.102	0.0003	0.1		102	90 - 110	

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

Sample ID	RunNo: 67857	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1102275-001Gs	03/02/11 16:01	Uranium Suspended	1.21	0.0003	1.1	ND	110	70 - 130	

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

Sample ID	RunNo: 67857	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1102275-001G	03/02/11 15:58	Uranium Suspended	ND	0.0003	ND	0		20	

Test: **pH Water**

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

Sample ID	RunNo: 67708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	02/24/11 13:47	pH	10.8	0.1	10.7		101	94.8 - 105	

Sample ID	RunNo: 67708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	02/24/11 19:42	pH	10.9	0.1	10.7		102	94.8 - 105	

- 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) 672-8645

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08006

- CHAIN OF CUSTODY RECORD -

Client Name: AUCLLC
 Report Address: pcavendor@auc-llc.com; tnickerson@treccorp.com; jshriver@treccorp.com
 Invoice Address: AUCLLC

Project Identification: Reno Creek Project
 Contact Name: Tracy Nickerson
 Email: T.NICKERSON@TRECCORP.COM
 Phone: (607) 265-0696
 Purchase Order #: [blank]
 Quote #: [blank]

Sampler (Signature/Printed): Justin Scott
 Telephone #: (307) 265-0696

ANALYSES / PARAMETERS

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	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	511 022275-08	2/24/11	13:50	UMI-002-110222	W	13	X							Ground H ₂ O
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														

LAB COMMENTS: Relinquished By (Signature/Printed): Justin Scott / Justin Scott

DATE: 2/24/11 9:00
 TIME: 1658

Received By (Signature/Printed): Justin Scott / Justin Scott
 DATE: 2/24/11 10:03

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

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

ADDITIONAL REMARKS: 1.5