



Friday, May 20, 2011

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

RE: Reno Creek Project
Order

r No.: S1103030

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples PZM10-002-110301 on March 2, 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: 5/20/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1103030

CASE NARRATIVE
Report ID: S1103030002
(Replaces S1103030001)

Sample PZM10-002-110301 was received on March 2, 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

S1103030-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory

Qualifiers by sample

LCS-R68250 - General Parameters/Radon-222 - Analyzed by a contract laboratory
MB-R68250 - 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: S1103030-001
ClientSample ID: PZM10-002-110301
COC: RC 08255

Date Reported 5/20/2011
Report ID S1103030002
 (Replaces S1103030001)

WorkOrder: S1103030
CollectionDate: 3/1/2011 12:45:00 PM
DateReceived: 3/2/2011 7:53:00 AM
FieldSampler: TN
Matrix: Water

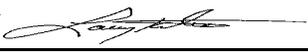
Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
Field						
pH Reading 1	8.80	s.u.			Field	3/1/2011 12:45:00 PM
pH Reading 2	8.80	s.u.			Field	3/1/2011 12:45:00 PM
pH Reading 3	8.80	s.u.			Field	3/1/2011 12:45:00 PM
Conductivity Reading 1	1316	µmhos/cm			Field	3/1/2011 12:45:00 PM
Conductivity Reading 2	1317	µmhos/cm			Field	3/1/2011 12:45:00 PM
Conductivity Reading 3	1318	µmhos/cm			Field	3/1/2011 12:45:00 PM
Turbidity Reading 1	0.32	NTU			Field	3/1/2011 12:45:00 PM
Turbidity Reading 2	0.38	NTU			Field	3/1/2011 12:45:00 PM
Turbidity Reading 3	0.31	NTU			Field	3/1/2011 12:45:00 PM
Dissolved Oxygen Reading 1	6.34	mg/L			Field	3/1/2011 12:45:00 PM
Dissolved Oxygen Reading 2	6.38	mg/L			Field	3/1/2011 12:45:00 PM
Dissolved Oxygen Reading 3	6.45	mg/L			Field	3/1/2011 12:45:00 PM
Temperature Reading 1	9.95	°C			Field	3/1/2011 12:45:00 PM
Temperature Reading 2	9.93	°C			Field	3/1/2011 12:45:00 PM
Temperature Reading 3	9.93	°C			Field	3/1/2011 12:45:00 PM
Oxygen Reduction Potential Reading	-123.5	mV			Field	3/1/2011 12:45:00 PM
Oxygen Reduction Potential Reading	-123.6	mV			Field	3/1/2011 12:45:00 PM
Oxygen Reduction Potential Reading	-123.4	mV			Field	3/1/2011 12:45:00 PM
Purge Rate Reading 1	300	ml/min			Field	3/1/2011 12:45:00 PM
Purge Rate Reading 2	300	ml/min			Field	3/1/2011 12:45:00 PM
Purge Rate Reading 3	200	ml/min			Field	3/1/2011 12:45:00 PM
Water Level Reading 1	289.16	Ft			Field	3/1/2011 12:45:00 PM
Water Level Reading 2	289.15	Ft			Field	3/1/2011 12:45:00 PM
Water Level Reading 3	289.16	Ft			Field	3/1/2011 12:45:00 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

ProjectName: Reno Creek Project
Lab ID: S1103030-001
ClientSample ID: PZM10-002-110301
COC: RC 08255

Date Reported: 5/20/2011
Report ID: S1103030002
(Replaces S1103030001)

WorkOrder: S1103030
CollectionDate: 3/1/2011 12:45:00 PM
DateReceived: 3/2/2011 7:53:00 AM
FieldSampler: TN
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	57	mg/L		5	SM 2320B	3/3/2011 12:46:32 PM	AMB
Alkalinity, Bicarbonate as HCO3	69	mg/L		5	SM 2320B	3/3/2011 12:46:32 PM	AMB
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	3/3/2011 12:46:32 PM	AMB
Chloride	8	mg/L		1	EPA 300.0	3/3/2011 1:31:00 AM	KO
Fluoride	0.1	mg/L		0.1	SM 4500FC	3/3/2011 12:46:32 PM	AMB
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	3/9/2011 12:30:00 PM	AS
Sulfate	862	mg/L		1	EPA 300.0	3/3/2011 1:31:00 AM	KO
Calcium	112	mg/L		1	EPA 200.7	3/3/2011 10:55:35 AM	DG
Magnesium	21	mg/L		1	EPA 200.7	3/3/2011 10:55:35 AM	DG
Potassium	9	mg/L		1	EPA 200.7	3/3/2011 10:55:35 AM	DG
Sodium	313	mg/L		1	EPA 200.7	3/3/2011 10:55:35 AM	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	3/3/2011 11:05:00 AM	AS
Silica as SiO2	8	mg/L		1	EPA 200.7	3/3/2011 10:55:35 AM	DG
General Parameters							
pH	8.0	s.u.		0.1	SM 4500 H B	3/3/2011 12:46:32 PM	AMB
Electrical Conductivity	1640	µmhos/cm		5	SM 2510B	3/3/2011 12:46:32 PM	AMB
Total Dissolved Solids (180)	1430	mg/L		10	SM 2540	3/3/2011 9:20:00 AM	JF
Data Quality							
Cation Sum	21.15	meq/L		0.01	SM 1030E	3/15/2011 2:02:09 PM	LJK
Anion Sum	19.31	meq/L		0.01	SM 1030E	3/15/2011 2:02:09 PM	LJK
Cation-Anion Balance (± 5%)	4.54	%		0.01	SM 1030E	3/15/2011 2:02:09 PM	LJK
Solids, Total Dissolved (Calc)	1360	mg/L		10	SM 1030E	3/15/2011 2:02:09 PM	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.05	dec. %		0.01	Calculation	3/15/2011 2:07:35 PM	LJK

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Reviewed by:


Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
 1536 Cole Blvd
 Lakewood, CO 80401

ProjectName: Reno Creek Project
Lab ID: S1103030-001
ClientSample ID: PZM10-002-110301
COC: RC 08255

Date Reported: 5/20/2011
Report ID: S1103030002
 (Replaces S1103030001)

WorkOrder: S1103030
CollectionDate: 3/1/2011 12:45:00 PM
DateReceived: 3/2/2011 7:53:00 AM
FieldSampler: TN
Matrix: Water

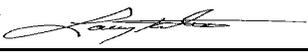
Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	3/3/2011 10:55:35 AM	DG
Arsenic	0.031	mg/L		0.001	EPA 200.8	3/2/2011 4:59:22 PM	MS
Barium	ND	mg/L		0.1	EPA 200.8	3/2/2011 4:59:22 PM	MS
Boron	ND	mg/L		0.1	EPA 200.7	3/3/2011 10:55:35 AM	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	3/2/2011 4:59:22 PM	MS
Chromium	ND	mg/L		0.01	EPA 200.7	3/3/2011 10:55:35 AM	DG
Copper	ND	mg/L		0.01	EPA 200.8	3/2/2011 4:59:22 PM	MS
Iron	ND	mg/L		0.05	EPA 200.7	3/3/2011 10:55:35 AM	DG
Lead	ND	mg/L		0.01	EPA 200.8	3/2/2011 4:59:22 PM	MS
Manganese	0.04	mg/L		0.01	EPA 200.7	3/3/2011 10:55:35 AM	DG
Mercury	ND	mg/L		0.001	EPA 245.1	3/4/2011 8:33:19 AM	BK
Molybdenum	0.32	mg/L		0.01	EPA 200.8	3/2/2011 4:59:22 PM	MS
Nickel	ND	mg/L		0.05	EPA 200.7	3/3/2011 10:55:35 AM	DG
Selenium	ND	mg/L		0.005	EPA 200.8	3/2/2011 4:59:22 PM	MS
Uranium	0.607	mg/L		0.0003	EPA 200.8	3/2/2011 4:59:22 PM	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	3/2/2011 4:59:22 PM	MS
Zinc	ND	mg/L		0.01	EPA 200.7	3/3/2011 10:55:35 AM	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	3/7/2011 5:35:52 PM	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	3/4/2011 3:11:45 PM	DG
Manganese	0.05	mg/L		0.01	EPA 200.7	3/4/2011 3:11:45 PM	DG

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- E Value above quantitation range
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Reviewed by: 
 Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401
ProjectName: Reno Creek Project
Lab ID: S1103030-001
ClientSample ID: PZM10-002-110301
COC: RC 08255

Date Reported 5/20/2011
Report ID S1103030002
(Replaces S1103030001)
WorkOrder: S1103030
CollectionDate: 3/1/2011 12:45:00 PM
DateReceived: 3/2/2011 7:53:00 AM
FieldSampler: TN
Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Dissolved (Gross Alpha, Gross Beta, Lead 210, Polonium 210, Radium 226, Radium 228, Thorium 230) and Radionuclides - Suspended (Lead 210, Polonium 210, Radium 226, Thorium 230). Total Radon 222 is also listed.

These results apply only to the samples tested.

RL - Reporting Limit

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O Outside the Range of Dilutions

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1103030
Project: Reno Creek Project

Date: 5/20/2011
Report ID: S1103030002
 (Replaces S1103030001)

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

Sample ID	RunNo: 67897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK	03/03/11 11:48	Alkalinity, Total (As CaCO3)	ND	5					
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Sample ID	RunNo: 67897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK	03/03/11 18:38	Alkalinity, Total (As CaCO3)	ND	5					
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Sample ID	RunNo: 67897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK	03/04/11 2:13	Alkalinity, Total (As CaCO3)	ND	5					
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Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 67897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC	03/03/11 11:39	Alkalinity, Total (As CaCO3)	474	5	473		100	96.6 - 103	
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Sample ID	RunNo: 67897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC	03/03/11 18:28	Alkalinity, Total (As CaCO3)	482	5	473		102	96.6 - 103	
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Sample ID	RunNo: 67897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC	03/04/11 2:05	Alkalinity, Total (As CaCO3)	484	5	473		102	96.6 - 103	
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ConductivitySample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 67897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK	03/03/11 11:48	Electrical Conductivity	ND	5					
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Sample ID	RunNo: 67897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK	03/03/11 18:38	Electrical Conductivity	ND	5					
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Sample ID	RunNo: 67897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK	03/04/11 2:13	Electrical Conductivity	ND	5					
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Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 67897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC	03/03/11 11:39	Electrical Conductivity	913	5	1000		91.3	90 - 110	
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Sample ID	RunNo: 67897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC	03/03/11 18:28	Electrical Conductivity	932	5	1000		93.2	90 - 110	
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Sample ID	RunNo: 67897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC	03/04/11 2:05	Electrical Conductivity	939	5	1000		93.9	90 - 110	
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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: S1103030
Project: Reno Creek Project

Date: 5/20/2011
Report ID: S1103030002
 (Replaces S1103030001)

Dissolved Mercury by EPA 245.1 - WaterSample Type **MBLK** Units: mg/L

Sample ID	RunNo: 67923	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	03/04/11 8:18	Mercury	ND	0.001					

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

Sample ID	RunNo: 67923	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	03/04/11 8:16	Mercury	0.002	0.001	0.002		102	85 - 115	

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

Sample ID	RunNo: 67908	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICB	03/03/11 8:56	Aluminum	ND	0.1					
		Boron	ND	0.1					
		Chromium	ND	0.01					
		Gold	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: 67908	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICV Q	03/03/11 8:58	Aluminum	1.0	0.1	1		103	85 - 115	
		Boron	1.0	0.1	1		104	85 - 115	
		Chromium	1.05	0.01	1		105	85 - 115	
		Iron	1.02	0.05	1		102	85 - 115	
		Manganese	1.03	0.02	1		103	85 - 115	
		Nickel	1.03	0.01	1		103	85 - 115	
		Zinc	1.04	0.01	1		104	85 - 115	

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

Sample ID	RunNo: 67908	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103030-001D	03/03/11 10:57	Aluminum	ND	0.1	ND	0		20	
		Boron	ND	0.1	ND	0		20	
		Chromium	ND	0.01	ND	0		20	
		Iron	ND	0.05	ND	0		20	
		Manganese	0.04	0.01	0.04	0.484		20	
		Nickel	ND	0.05	ND	0		20	
		Zinc	ND	0.01	ND	0		20	

Qualifiers:

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1103030
Project: Reno Creek Project

Date: 5/20/2011
Report ID: S1103030002
(Replaces S1103030001)

Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 67855	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Init Cal Blank	03/02/11 15:36	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: 67855	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	03/02/11 15:43	Arsenic	0.100	0.005	0.1		100	85 - 115	
		Barium	ND	0.5	0.1		102	85 - 115	
		Cadmium	0.101	0.002	0.1		101	85 - 115	
		Copper	0.10	0.01	0.1		100	85 - 115	
		Lead	0.10	0.02	0.1		96.2	85 - 115	
		Molybdenum	0.11	0.02	0.1		107	85 - 115	
		Selenium	0.103	0.005	0.1		103	85 - 115	
		Uranium	0.102	0.001	0.1		102	85 - 115	
		Vanadium	0.10	0.02	0.1		102	85 - 115	

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

Sample ID	RunNo: 67855	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103030-001Ds	03/02/11 17:13	Arsenic	1.19	0.005	1.1	0.031	105	70 - 130	
		Barium	1.3	0.5	1.1	ND	113	70 - 130	
		Cadmium	1.19	0.002	1.1	ND	108	70 - 130	
		Copper	1.16	0.01	1.1	ND	106	70 - 130	
		Lead	0.94	0.02	1.1	ND	85.3	70 - 130	
		Molybdenum	1.55	0.02	1.1	0.32	112	70 - 130	
		Selenium	1.18	0.005	1.1	ND	107	70 - 130	
		Uranium	1.82	0.001	1.1	0.607	110	70 - 130	
		Vanadium	1.17	0.02	1.1	ND	106	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: S1103030
Project: Reno Creek Project

Date: 5/20/2011
Report ID: S1103030002
(Replaces S1103030001)

Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 67855	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103030-001D	03/02/11 17:10	Arsenic	0.031	0.001	0.031	0.0180		20	
		Barium	ND	0.1	ND	0		20	
		Cadmium	ND	0.001	ND	0		20	
		Copper	ND	0.01	ND	0		20	
		Lead	ND	0.01	ND	0		20	
		Molybdenum	0.33	0.01	0.32	0.984		20	
		Selenium	ND	0.005	ND	0		20	
		Uranium	0.600	0.0003	0.607	1.14		20	
		Vanadium	ND	0.1	ND	0		20	

Fluoride by SM 4500

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

Sample ID	RunNo: 67897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	03/03/11 11:48	Fluoride	ND	0.1					

Sample ID	RunNo: 67897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	03/03/11 18:38	Fluoride	ND	0.1					

Sample ID	RunNo: 67897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	03/04/11 2:13	Fluoride	ND	0.1					

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

Sample ID	RunNo: 67897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	03/03/11 11:39	Fluoride	2.9	0.1	2.82		104	86.1 - 114	

Sample ID	RunNo: 67897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	03/03/11 18:28	Fluoride	2.7	0.1	2.82		95.6	86.1 - 114	

Sample ID	RunNo: 67897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	03/04/11 2:05	Fluoride	2.8	0.1	2.82		97.5	86.1 - 114	

- 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: S1103030
Project: Reno Creek Project

Date: 5/20/2011
Report ID: S1103030002
 (Replaces S1103030001)

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

Sample ID	RunNo: 68249	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-067B	03/15/11 9:24	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

Sample ID	RunNo: 70052	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-129	05/10/11 20:22	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 68249	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-067B	03/15/11 9:24	Gross Alpha (Dissolved)	75	2	69		109	72.6 - 137	
		Gross Beta (Dissolved)	129	3	130		99.8	72.6 - 137	

Sample ID	RunNo: 70052	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-129	05/10/11 20:22	Gross Alpha (Dissolved)	79	2	69		114	72.6 - 137	
		Gross Beta (Dissolved)	135	3	130		104	72.6 - 137	

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

Sample ID	RunNo: 70052	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103030-001FMS	05/12/11 21:56	Gross Alpha (Dissolved)	727	2	138	594	96.6	47.8 - 153	
		Gross Beta (Dissolved)	569	4	259	350	84.7	47.8 - 153	

Anions by ION ChromatographySample Type **MBLK** Units: mg/L

Sample ID	RunNo: 67858	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	03/02/11 0:00	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 67858	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	03/02/11 15:10	Chloride	32	1	30		105	90 - 110	
		Sulfate	152	1	150		101	90 - 110	

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: S1103030
Project: Reno Creek Project

Date: 5/20/2011
Report ID: S1103030002
 (Replaces S1103030001)

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

Sample ID	RunNo: 67896	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICB	03/03/11 8:56	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 67896	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICV 3	03/03/11 9:00	Calcium	42	1	40		104	85 - 115	
		Magnesium	38	1	40		96.0	85 - 115	
		Potassium	40	1	40		101	85 - 115	
		Sodium	40	1	40		99.4	85 - 115	

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

Sample ID	RunNo: 67896	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103030-001B	03/03/11 10:57	Calcium	112	1	112	0.387		20	
		Magnesium	21	1	21	0.204		20	
		Potassium	9	1	9	0.952		20	
		Sodium	329	1	313	4.91		20	

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

Sample ID	RunNo: 67876	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Blank	03/03/11 10:11	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 67876	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	03/03/11 10:13	Nitrogen, Ammonia (As N)	15.5	0.1	16		96.7	90 - 110	

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

Sample ID	RunNo: 67876	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103030-001C	03/03/11 11:07	Nitrogen, Ammonia (As N)	11.4	0.1	10	0.2	112	80 - 120	

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

Sample ID	RunNo: 67876	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103030-001C	03/03/11 11:06	Nitrogen, Ammonia (As N)	0.2	0.1	0.2	5.41		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: S1103030
Project: Reno Creek Project

Date: 5/20/2011
Report ID: S1103030002
(Replaces S1103030001)

Nitrogen, Nitrate-Nitrite (as N)

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

Sample ID	RunNo: 68091	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	03/09/11 10:26	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 68091	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	03/09/11 10:28	Nitrogen, Nitrate-Nitrite (as N)	7.7	0.1	7.69		101	90 - 110	

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

Sample ID	RunNo: 68091	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103030-001C	03/09/11 12:32	Nitrogen, Nitrate-Nitrite (as N)	11.1	0.1	10	ND	111	80 - 120	

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

Sample ID	RunNo: 68091	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103030-001C	03/09/11 12:31	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1	ND	0		20	

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1103030
Project: Reno Creek Project

Date: 5/20/2011
Report ID: S1103030002
 (Replaces S1103030001)

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

Sample ID	RunNo: 68581	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB-R68581	03/24/11 15:00	Lead 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 68581	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB-R68581	03/24/11 15:00	Lead 210 (Suspended)	ND	1					
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Sample ID	RunNo: 68582	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB-R68582	03/24/11 12:43	Polonium 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 68582	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB-R68582	03/24/11 12:43	Polonium 210 (Suspended)	ND	1					
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Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 68581	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS-R68581	03/24/11 15:00	Lead 210 (Dissolved)	11	1	13.1		84.3	50 - 150	
		Lead 210 (Suspended)	11	1	13.1		84.3	50 - 150	

Sample ID	RunNo: 68582	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS-R68582	03/24/11 12:43	Polonium 210 (Dissolved)	6	1	6.6		88.6	50 - 150	
		Polonium 210 (Suspended)	6	1	6.6		88.6	50 - 150	

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

Sample ID	RunNo: 68581	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1103030-001FMS	03/24/11 15:00	Lead 210 (Dissolved)	27	1	13.1	11	123	50 - 150	
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Sample ID	RunNo: 68582	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1103030-001FMS	03/24/11 12:43	Polonium 210 (Dissolved)	9	1	13.1	ND	70.6	50 - 150	
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Radium 228Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 68410	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-074	03/18/11 15:24	Radium 228 (Dissolved)	ND	1					
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Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 68410	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-074	03/18/11 15:24	Radium 228 (Dissolved)	9	1	9.76		96.9	63.8 - 119	
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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: S1103030
Project: Reno Creek Project

Date: 5/20/2011
Report ID: S1103030002
 (Replaces S1103030001)

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

Sample ID	RunNo: 68263	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-067	03/11/11 11:03	Radium 226 (Dissolved)	ND	0.2					

Sample ID	RunNo: 68337	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-073	03/17/11 9:05	Radium 226 (Dissolved)	ND	0.2					

Sample ID	RunNo: 68337	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DMB11-073B	03/17/11 9:05	Radium 226 (Suspended)	ND	0.2					

Sample ID	RunNo: 68337	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DMB11-073A	03/17/11 9:05	Radium 226 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 68263	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-067	03/11/11 11:03	Radium 226 (Dissolved)	5.0	0.2	5		101	69.3 - 130	

Sample ID	RunNo: 68337	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-073	03/17/11 9:05	Radium 226 (Dissolved)	5.0	0.2	5		99.5	69.3 - 130	
		Radium 226 (Suspended)	5.0	0.2	5		99.5	69.3 - 130	

Thorium 230 in WaterSample 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	

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

Sample ID	RunNo: 68250	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R68250	03/02/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 68250	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R68250	03/02/11 0:00	Radon-222	22900	100	22500		102	75 - 125	L

Qualifiers:

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1103030
Project: Reno Creek Project

Date: 5/20/2011
Report ID: S1103030002
 (Replaces S1103030001)

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

Sample ID	RunNo: 67912	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICB	03/03/11 8:56	Silica as SiO ₂	ND	0.1					

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

Sample ID	RunNo: 67912	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICV Q	03/03/11 8:58	Silica as SiO ₂	2.2	0.1	2.14		101	85 - 115	

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

Sample ID	RunNo: 67912	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103030-001D	03/03/11 10:57	Silica as SiO ₂	8	1	8	0.353		20	

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

Sample ID	RunNo: 67932	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Air	03/03/11 9:00	Total Dissolved Solids (180)	ND	10					

Sample ID	RunNo: 67932	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Air	03/03/11 9:05	Total Dissolved Solids (180)	ND	10					

Sample ID	RunNo: 67932	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	03/03/11 9:10	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 67932	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Control	03/03/11 9:15	Total Dissolved Solids (180)	220	10	226		95.6	90 - 110	

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

Sample ID	RunNo: 67950	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK 3/4 TOT -4934	03/04/11 15:00	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 67950	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS 3/4 TOT -4934	03/04/11 15:09	Iron	0.50	0.05	0.5		99.6	85 - 115	
		Manganese	0.20	0.02	0.2		99.5	85 - 115	

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

Sample ID	RunNo: 67950	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103030-001E	03/04/11 15:14	Iron	ND	0.05	ND	0		20	
		Manganese	0.04	0.01	0.05	2.18		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: S1103030
Project: Reno Creek Project

Date: 5/20/2011
Report ID: S1103030002
(Replaces S1103030001)

Suspended Natural Uranium

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

Sample ID	RunNo: 67978	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Init Cal Blank	03/07/11 17:24	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 67978	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	03/07/11 17:28	Uranium Suspended	0.110	0.0003	0.1		110	90 - 110	

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

Sample ID	RunNo: 67978	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103030-001Gs	03/07/11 17:40	Uranium Suspended	1.25	0.0003	1.1	ND	114	70 - 130	

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

Sample ID	RunNo: 67978	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103030-001G	03/07/11 17:38	Uranium Suspended	ND	0.0003	ND	0		20	

pH Water

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

Sample ID	RunNo: 67897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	03/03/11 11:39	pH	10.6	0.1	10.7		98.8	94.8 - 105	

Sample ID	RunNo: 67897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	03/03/11 18:28	pH	10.8	0.1	10.7		101	94.8 - 105	

Sample ID	RunNo: 67897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	03/04/11 2:05	pH	10.5	0.1	10.7		97.9	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) 672-8945

- CHAIN OF CUSTODY RECORD -
 This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08255

Client Name: **AUC LLC** Project Identification: **Reno Creek Project** Sampler (Signature/Printed): *Traci Nickerson* Telephone #:
 Report Address: **peavendor@auc-llc.com; trnickerson@neccorp.com; jshiver@neccorp.com** Contact Name: **Traci Nickerson**
 Invoice Address: **AUC LLC** Email: **trnickerson@neccorp.com** Phone: **307-265-0696** Quote #:
9510 Corralle St Ste 395 Purchase Order #: **P2MD-002-110301**

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	811 03030-001	3/1/11	12:45	P2MD-002-110301	W	13	X							Groundwater
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														

LAB COMMENTS: Relinquished By (Signature/Printed): *Traci Nickerson* DATE: 3/1/11 TIME: 2:30
 Received By (Signature/Printed): *Kathy Boyd* DATE: 3/2/11 TIME: 7:53

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? Program (SDWA, NPDES,...) PWSID / Permit # _____ Chlorinated? Sample Disposal: Lab Client

ADDITIONAL REMARKS: