



Thursday, August 25, 2011

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

RE: Reno Creek Project
Orde

r No.: S1107454

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples UM7-001-110727 on July 27, 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: 8/25/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1107454

CASE NARRATIVE
Report ID: S1107454001

Sample UM7-001-110727 was received on July 27, 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

- S1107454-001 - Radiochemistry/Lead 210 (Dissolved) - RPD outside accepted recovery limits
- S1107454-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- LCS-R73365 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- MB-R73365 - 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

Date Reported 8/25/2011
Report ID S1107454001

ProjectName: Reno Creek Project
Lab ID: S1107454-001
ClientSample ID: UM7-001-110727
COC: RC 08326

WorkOrder: S1107454
CollectionDate: 7/27/2011 10:29:00 AM
DateReceived: 7/27/2011 4:45:00 PM
FieldSampler: TN
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
Field						
pH Reading 1	11.00	s.u.			Field	7/27/2011 10:29:00 AM
pH Reading 2	10.86	s.u.			Field	7/27/2011 10:29:00 AM
pH Reading 3	10.72	s.u.			Field	7/27/2011 10:29:00 AM
Conductivity Reading 1	733	µmhos/cm			Field	7/27/2011 10:29:00 AM
Conductivity Reading 2	727	µmhos/cm			Field	7/27/2011 10:29:00 AM
Conductivity Reading 3	728	µmhos/cm			Field	7/27/2011 10:29:00 AM
Turbidity Reading 1	1.8	NTU			Field	7/27/2011 10:29:00 AM
Turbidity Reading 2	2.6	NTU			Field	7/27/2011 10:29:00 AM
Turbidity Reading 3	3.1	NTU			Field	7/27/2011 10:29:00 AM
Dissolved Oxygen Reading 1	1.2	mg/L			Field	7/27/2011 10:29:00 AM
Dissolved Oxygen Reading 2	1.33	mg/L			Field	7/27/2011 10:29:00 AM
Dissolved Oxygen Reading 3	1.31	mg/L			Field	7/27/2011 10:29:00 AM
Temperature Reading 1	16.71	°C			Field	7/27/2011 10:29:00 AM
Temperature Reading 2	16.72	°C			Field	7/27/2011 10:29:00 AM
Temperature Reading 3	16.73	°C			Field	7/27/2011 10:29:00 AM
Oxygen Reduction Potential Reading	68.3	mV			Field	7/27/2011 10:29:00 AM
Oxygen Reduction Potential Reading	73.0	mV			Field	7/27/2011 10:29:00 AM
Oxygen Reduction Potential Reading	76.6	mV			Field	7/27/2011 10:29:00 AM
Purge Rate Reading 1	400	ml/min			Field	7/27/2011 10:29:00 AM
Purge Rate Reading 2	400	ml/min			Field	7/27/2011 10:29:00 AM
Purge Rate Reading 3	400	ml/min			Field	7/27/2011 10:29:00 AM
Water Level Reading 1	191.14	Ft			Field	7/27/2011 10:29:00 AM
Water Level Reading 2	191.54	Ft			Field	7/27/2011 10:29:00 AM
Water Level Reading 3	192.00	Ft			Field	7/27/2011 10:29:00 AM

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 8/25/2011
Report ID S1107454001

ProjectName: Reno Creek Project
Lab ID: S1107454-001
ClientSample ID: UM7-001-110727
COC: RC 08326

WorkOrder: S1107454
CollectionDate: 7/27/2011 10:29:00 AM
DateReceived: 7/27/2011 4:45:00 PM
FieldSampler: TN
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	64	mg/L		5	SM 2320B	7/28/2011 5:55:11 PM	AMB
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	7/28/2011 5:55:11 PM	AMB
Alkalinity, Carbonate as CO3	37	mg/L		5	SM 2320B	7/28/2011 5:55:11 PM	AMB
Chloride	15	mg/L		1	EPA 300.0	8/10/2011 8:11:00 AM	ARF
Fluoride	0.4	mg/L		0.1	SM 4500FC	7/28/2011 5:55:11 PM	AMB
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	7/31/2011 12:41:00 PM	MEL
Sulfate	187	mg/L		1	EPA 300.0	8/10/2011 8:11:00 AM	ARF
Calcium	8	mg/L		1	EPA 200.7	8/8/2011 9:49:37 AM	DG
Magnesium	2	mg/L		1	EPA 200.7	8/8/2011 9:49:37 AM	DG
Potassium	25	mg/L		1	EPA 200.7	8/8/2011 9:49:37 AM	DG
Sodium	103	mg/L		1	EPA 200.7	7/28/2011 3:25:12 PM	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	8/3/2011 12:19:00 PM	LJK
Silica as SiO2	5	mg/L		1	EPA 200.7	7/28/2011 3:25:12 PM	DG
General Parameters							
pH	10.5	s.u.		0.1	SM 4500 H B	7/28/2011 5:55:11 PM	AMB
Electrical Conductivity	737	µmhos/cm		5	SM 2510B	7/28/2011 5:55:11 PM	AMB
Total Dissolved Solids (180)	400	mg/L		10	SM 2540	7/29/2011 2:35:00 PM	JF
Data Quality							
Cation Sum	5.62	meq/L		0.01	SM 1030E	8/11/2011 4:00:06 PM	LJK
Anion Sum	5.60	meq/L		0.01	SM 1030E	8/11/2011 4:00:06 PM	LJK
Cation-Anion Balance (± 5%)	0.20	%		0.01	SM 1030E	8/11/2011 4:00:06 PM	LJK
Solids, Total Dissolved (Calc)	380	mg/L		10	SM 1030E	8/11/2011 4:00:06 PM	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.05	dec. %		0.01	Calculation	8/11/2011 4:18:47 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

Date Reported 8/25/2011
Report ID S1107454001

ProjectName: Reno Creek Project
Lab ID: S1107454-001
ClientSample ID: UM7-001-110727
COC: RC 08326

WorkOrder: S1107454
CollectionDate: 7/27/2011 10:29:00 AM
DateReceived: 7/27/2011 4:45:00 PM
FieldSampler: TN
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	7/28/2011 3:25:12 PM	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	7/28/2011 2:52:03 PM	MS
Barium	ND	mg/L		0.1	EPA 200.8	7/28/2011 2:52:03 PM	MS
Boron	ND	mg/L		0.1	EPA 200.7	7/28/2011 3:25:12 PM	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	7/28/2011 2:52:03 PM	MS
Chromium	ND	mg/L		0.01	EPA 200.7	7/28/2011 3:25:12 PM	DG
Copper	ND	mg/L		0.01	EPA 200.8	7/28/2011 2:52:03 PM	MS
Iron	ND	mg/L		0.05	EPA 200.7	7/28/2011 3:25:12 PM	DG
Lead	ND	mg/L		0.01	EPA 200.8	7/28/2011 2:52:03 PM	MS
Manganese	ND	mg/L		0.01	EPA 200.7	7/28/2011 3:25:12 PM	DG
Mercury	ND	mg/L		0.001	EPA 245.1	8/5/2011 9:49:17 AM	VR
Molybdenum	ND	mg/L		0.01	EPA 200.8	7/28/2011 2:52:03 PM	MS
Nickel	ND	mg/L		0.05	EPA 200.7	7/28/2011 3:25:12 PM	DG
Selenium	ND	mg/L		0.005	EPA 200.8	7/28/2011 2:52:03 PM	MS
Uranium	0.0008	mg/L		0.0003	EPA 200.8	7/28/2011 2:52:03 PM	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	7/28/2011 2:52:03 PM	MS
Zinc	ND	mg/L		0.01	EPA 200.7	7/28/2011 3:25:12 PM	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	8/9/2011 2:42:02 PM	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	8/1/2011 6:13:57 PM	DG
Manganese	ND	mg/L		0.01	EPA 200.7	8/1/2011 6:13:57 PM	DG

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 - S Spike Recovery outside accepted recovery limits

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- 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: S1107454-001
ClientSample ID: UM7-001-110727
COC: RC 08326

Date Reported 8/25/2011
Report ID S1107454001
WorkOrder: S1107454
CollectionDate: 7/27/2011 10:29:00 AM
DateReceived: 7/27/2011 4:45:00 PM
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 Radionuclides section includes Radon 222.

These results apply only to the samples tested.

RL - Reporting Limit

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1107454
Project: Reno Creek Project

Date: 8/25/2011
Report ID: S1107454001

Alkalinity

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

Sample ID	RunNo: 72760	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	07/28/11 15:14	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 72760	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	07/28/11 15:04	Alkalinity, Total (As CaCO3)	589	5	601		98.0	90 - 110	

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

Sample ID	RunNo: 72760	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107339-008AD	07/28/11 17:05	Alkalinity, Bicarbonate as HCO3	351	5	350	0.252		20	
		Alkalinity, Total (As CaCO3)	287	5	287	0.252		20	

Conductivity

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 72760	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	07/28/11 15:14	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 72760	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	07/28/11 15:04	Electrical Conductivity	1110	5	1120		98.7	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 72760	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107473-002AD	07/28/11 20:06	Electrical Conductivity	83800	5	83800	0		20	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
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 - 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: S1107454
Project: Reno Creek Project

Date: 8/25/2011
Report ID: S1107454001

Dissolved Mercury by EPA 245.1 - Water

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

Sample ID	RunNo: 73108	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	08/05/11 9:44	Mercury	ND	0.001					

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

Sample ID	RunNo: 73108	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	08/05/11 9:42	Mercury	0.002	0.001	0.002		107	85 - 115	

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

Sample ID	RunNo: 73108	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107454-001D	08/05/11 9:52	Mercury	0.002	0.001	0.00244	ND	97.3	70 - 130	

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

Sample ID	RunNo: 73108	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1107454-001D	08/05/11 9:54	Mercury	0.002	0.001	0.002	0.847	96.5	20	

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

Sample ID	RunNo: 73108	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107454-001D	08/05/11 9:51	Mercury	ND	0.001	ND			20	

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1107454
Project: Reno Creek Project

Date: 8/25/2011
Report ID: S1107454001

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

Sample ID	RunNo: 72761	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	07/28/11 14:35	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: 72761	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	07/28/11 14:37	Aluminum	1.0	0.1	1		101	85 - 115	
		Boron	1.0	0.1	1		100	85 - 115	
		Chromium	1.05	0.01	1		105	85 - 115	
		Iron	1.01	0.05	1		101	85 - 115	
		Manganese	1.03	0.02	1		103	85 - 115	
		Nickel	1.05	0.01	1		105	85 - 115	
		Zinc	1.05	0.01	1		105	85 - 115	

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

Sample ID	RunNo: 72761	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107464-001CS	07/28/11 15:43	Aluminum	0.6	0.1	0.5	ND	104	70 - 130	
		Boron	0.6	0.1	0.5	ND	110	70 - 130	
		Chromium	0.52	0.01	0.5	ND	105	70 - 130	
		Iron	0.52	0.05	0.5	ND	101	70 - 130	
		Manganese	0.53	0.02	0.5	ND	103	70 - 130	
		Nickel	0.53	0.01	0.5	ND	106	70 - 130	
		Zinc	0.53	0.01	0.5	ND	106	70 - 130	

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

Sample ID	RunNo: 72761	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1107464-001CSD	07/28/11 15:45	Aluminum	0.6	0.1	0.6	3.54	108	20	
		Boron	0.6	0.1	0.6	4.34	115	20	
		Chromium	0.54	0.01	0.52	3.41	108	20	
		Iron	0.54	0.05	0.52	3.96	105	20	
		Manganese	0.54	0.02	0.53	3.17	107	20	
		Nickel	0.55	0.01	0.53	3.73	110	20	
		Zinc	0.55	0.01	0.53	2.73	109	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: S1107454
Project: Reno Creek Project

Date: 8/25/2011
Report ID: S1107454001

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 72761	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107463-002BD	07/28/11 15:38	Aluminum	ND	0.1	ND			20	
		Boron	0.1	0.1	0.1	4.09		20	
		Chromium	ND	0.01	ND			20	
		Iron	0.68	0.05	0.66	4.07		20	
		Manganese	ND	0.02	ND			20	
		Nickel	ND	0.01	ND			20	
		Zinc	ND	0.01	ND			20	

Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 72754	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	07/28/11 13:07	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: 72754	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	07/28/11 13:03	Arsenic	0.103	0.005	0.1		103	85 - 115	
		Barium	ND	0.5	0.1		99.4	85 - 115	
		Cadmium	0.107	0.002	0.1		107	85 - 115	
		Copper	0.10	0.01	0.1		96.3	85 - 115	
		Lead	0.10	0.02	0.1		98.4	85 - 115	
		Molybdenum	0.10	0.02	0.1		98.6	85 - 115	
		Selenium	0.101	0.005	0.1		101	85 - 115	
		Uranium	0.091	0.001	0.1		90.9	85 - 115	
		Vanadium	0.10	0.02	0.1		100	85 - 115	

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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: S1107454
Project: Reno Creek Project

Date: 8/25/2011
Report ID: S1107454001

Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 72754	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107436-001BS	07/28/11 13:31	Arsenic	1.15	0.005	1.1	ND	105	70 - 130	
		Barium	2.8	0.5	1.1	1.8	91.5	70 - 130	
		Cadmium	1.20	0.002	1.1	ND	109	70 - 130	
		Copper	1.08	0.01	1.1	ND	98.2	70 - 130	
		Lead	1.07	0.02	1.1	ND	97.1	70 - 130	
		Molybdenum	1.14	0.02	1.1	ND	103	70 - 130	
		Selenium	1.13	0.005	1.1	ND	103	70 - 130	
		Uranium	1.04	0.001	1.1	ND	94.1	70 - 130	
		Vanadium	1.09	0.02	1.1	ND	98.6	70 - 130	

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

Sample ID	RunNo: 72754	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1107436-001BMSD	07/28/11 13:35	Arsenic	1.13	0.005	1.15	1.94	103	20	
		Barium	2.8	0.5	2.8	1.46	95.2	20	
		Cadmium	1.17	0.002	1.20	3.10	106	20	
		Copper	1.07	0.01	1.08	1.39	96.8	20	
		Lead	1.04	0.02	1.07	2.78	94.4	20	
		Molybdenum	1.15	0.02	1.14	1.53	105	20	
		Selenium	1.13	0.005	1.13	0.140	103	20	
		Uranium	1.02	0.001	1.04	1.31	92.9	20	
		Vanadium	1.06	0.02	1.09	2.91	95.7	20	

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

Sample ID	RunNo: 72754	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107436-001BD	07/28/11 13:27	Arsenic	ND	0.005	ND			20	
		Barium	1.8	0.5	1.8	0.271		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	ND	0.001	ND			20	
		Vanadium	ND	0.02	ND			20	

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1107454
Project: Reno Creek Project

Date: 8/25/2011
Report ID: S1107454001

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

Sample ID	RunNo: 72760	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	07/28/11 15:14	Fluoride	ND	0.1					

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

Sample ID	RunNo: 72760	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	07/28/11 15:04	Fluoride	3.1	0.1	2.96		103	90 - 110	

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

Sample ID	RunNo: 72760	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107474-002ASPK	07/28/11 20:59	Fluoride	2.8	0.1	2.5	0.2	104	80 - 120	

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

Sample ID	RunNo: 72760	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107464-001AD	07/28/11 18:42	Fluoride	1.9	0.1	1.9	0.507		20	

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

Sample ID	RunNo: 73052	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-214	08/04/11 9:33	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 73052	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-214	08/04/11 9:33	Gross Alpha (Dissolved)	84	2	73.6		115	83 - 133	
		Gross Beta (Dissolved)	135	3	126		107	88 - 115	

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

Sample ID	RunNo: 73052	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107418-001FMS	08/04/11 9:33	Gross Alpha (Dissolved)	51	2	73.6	4	64.8	48 - 153	
		Gross Beta (Dissolved)	153	3	126	11	113	60 - 140	

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

Sample ID	RunNo: 73052	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107419-001FDUP	08/04/11 9:33	Gross Alpha (Dissolved)	9	2	10	6.07		20	

Sample ID	RunNo: 73052	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107455-001FDUP	08/04/11 9:33	Gross Beta (Dissolved)	37	4	39	6.78		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: S1107454
Project: Reno Creek Project

Date: 8/25/2011
Report ID: S1107454001

Anions by ION Chromatography

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

Sample ID	RunNo: 73212	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/08/11 8:00	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 73212	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	08/08/11 8:14	Chloride	32	1	30		106	90 - 110	
		Sulfate	147	1	150		98.1	90 - 110	

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

Sample ID	RunNo: 73212	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108146-002ASPK	08/10/11 9:18	Chloride	100	1	80	23	95.5	80 - 120	
		Sulfate	1060	1	640	417	101	80 - 120	

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

Sample ID	RunNo: 73212	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108146-002AD	08/10/11 9:05	Chloride	24	1	23	1.01		20	
		Sulfate	418	1	417	0.213		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: S1107454
Project: Reno Creek Project

Date: 8/25/2011
Report ID: S1107454001

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

Sample ID	RunNo: 72759	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	07/28/11 14:35	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

Sample ID	RunNo: 73167	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	08/08/11 9:22	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 72759	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	07/28/11 14:40	Calcium	39	1	40		97.8	85 - 115	
		Magnesium	40	1	40		99.4	85 - 115	
		Potassium	40	1	40		99.1	85 - 115	
		Sodium	38	1	40		95.4	85 - 115	

Sample ID	RunNo: 73167	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	08/08/11 9:26	Calcium	39	1	40		98.5	85 - 115	
		Magnesium	39	1	40		98.2	85 - 115	
		Potassium	40	1	40		99.7	85 - 115	
		Sodium	39	1	40		97.4	85 - 115	

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

Sample ID	RunNo: 72759	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107464-001AS	07/28/11 15:43	Calcium	36	1	25	11	100	70 - 130	
		Magnesium	36	1	25	9	106	70 - 130	
		Potassium	39	1	25	14	98.4	70 - 130	
		Sodium	28	1	25	3	99.6	70 - 130	

Sample ID	RunNo: 73167	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108110-001AS	08/08/11 11:26	Calcium	221	1	25	201	78.7	70 - 130	
		Magnesium	74	1	25	49	102	70 - 130	
		Potassium	39	1	25	7	127	70 - 130	
		Sodium	33	1	25	3	118	70 - 130	

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: S1107454
Project: Reno Creek Project

Date: 8/25/2011
Report ID: S1107454001

Cations by ICP (Method 200.7)

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

Sample ID	RunNo: 72759	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1107464-001ASD	07/28/11 15:45	Calcium	37	1	36	2.79	104	20	
		Magnesium	36	1	36	2.10	109	20	
		Potassium	40	1	39	2.77	103	20	
		Sodium	29	1	28	3.92	104	20	

Sample ID	RunNo: 73167	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108110-001ASD	08/08/11 11:28	Calcium	219	1	221	1.05	69.4	20	
		Magnesium	73	1	74	1.21	98.0	20	
		Potassium	38	1	39	2.79	123	20	
		Sodium	32	1	33	3.56	113	20	

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

Sample ID	RunNo: 72759	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107463-002AD	07/28/11 15:38	Calcium	10	1	9	2.63		20	
		Magnesium	5	1	5	3.31		20	
		Potassium	7	1	7	1.37		20	
		Sodium	526	1	512	2.87		20	

Sample ID	RunNo: 73167	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108108-001AD	08/08/11 11:21	Calcium	10	1	9	2.47		20	
		Magnesium	5	1	5	3.16		20	
		Sodium	820	1	790	3.89		20	

Nitrogen, Ammonia (as N)

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

Sample ID	RunNo: 72992	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/03/11 11:53	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 72992	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	08/03/11 11:55	Nitrogen, Ammonia (As N)	8.2	0.1	8.93		91.3	90 - 110	

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

Sample ID	RunNo: 72992	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107455-001C	08/03/11 12:22	Nitrogen, Ammonia (As N)	12.7	0.1	10	2.1	105	80 - 120	

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

Sample ID	RunNo: 72992	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107455-001C	08/03/11 12:21	Nitrogen, Ammonia (As N)	2.1	0.1	2.1	0.0567		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: S1107454
Project: Reno Creek Project

Date: 8/25/2011
Report ID: S1107454001

Nitrogen, Nitrate-Nitrite (as N)

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

Sample ID	RunNo: 72840	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	07/31/11 11:42	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 72840	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	07/31/11 11:44	Nitrogen, Nitrate-Nitrite (as N)	10.1	0.1	10		101	90 - 110	

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

Sample ID	RunNo: 72840	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107455-001C	07/31/11 12:45	Nitrogen, Nitrate-Nitrite (as N)	9.6	0.1	10	0.3	93.4	80 - 120	

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

Sample ID	RunNo: 72840	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107455-001C	07/31/11 12:44	Nitrogen, Nitrate-Nitrite (as N)	0.3	0.1	0.3	0.999		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: S1107454
Project: Reno Creek Project

Date: 8/25/2011
Report ID: S1107454001

Lead 210 and Polonium 210

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

Sample ID	RunNo: 73546	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-217 08/16/11 11:09 Lead 210 (Dissolved) ND 1

Sample ID	RunNo: 73549	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-217 08/15/11 17:07 Polonium 210 (Dissolved) ND 1

Sample ID	RunNo: 73556	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-221 08/18/11 9:45 Lead 210 (Suspended) ND 1

Sample ID	RunNo: 73557	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-221 08/16/11 16:44 Polonium 210 (Suspended) ND 1

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

Sample ID	RunNo: 73546	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-217 08/16/11 11:09 Lead 210 (Dissolved) 16 1 13 126 67.6 - 131

Sample ID	RunNo: 73549	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-217 PO 08/15/11 17:07 Polonium 210 (Dissolved) 4 1 3.21 130 35.1 - 175

Sample ID	RunNo: 73556	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-221 08/18/11 9:45 Lead 210 (Suspended) 13 1 13 96.9 60.3 - 141

Sample ID	RunNo: 73557	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-221 08/16/11 16:44 Polonium 210 (Suspended) 3 1 3.15 100 48.6 - 156

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

Sample ID	RunNo: 73546	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1107427-001FMS 08/16/11 11:09 Lead 210 (Dissolved) 110 1 13 101 70.1 66 - 133

Sample ID	RunNo: 73549	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1107427-001FMS 08/15/11 17:07 Polonium 210 (Dissolved) 16 1 13 10 43.0 20.9 - 160

Sample ID	RunNo: 73556	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1107418-001FMS 08/18/11 9:45 Lead 210 (Suspended) 13 1 13 ND 97.6 62.4 - 132

Sample ID	RunNo: 73557	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1107418-001FMS 08/16/11 16:44 Polonium 210 (Suspended) 13 1 13 ND 102 28 - 173

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1107454
Project: Reno Creek Project

Date: 8/25/2011
Report ID: S1107454001

Lead 210 and Polonium 210

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

Sample ID	RunNo: 73546	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1107454-001FDUP	08/16/11 11:09	Lead 210 (Dissolved)	1	1	3	59.9		20	R
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Sample ID	RunNo: 73549	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1107454-001FDUP	08/15/11 17:07	Polonium 210 (Dissolved)	ND	1	ND			20	
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Sample ID	RunNo: 73556	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1107425-001FDUP	08/18/11 9:45	Lead 210 (Suspended)	ND	1	ND			20	
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Sample ID	RunNo: 73557	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1107425-001FDUP	08/16/11 16:44	Polonium 210 (Suspended)	ND	1	ND			20	
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Radium 228

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

Sample ID	RunNo: 73374	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-220B	08/12/11 16:13	Radium 228 (Dissolved)	ND	1					
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Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 73374	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-220B	08/12/11 16:13	Radium 228 (Dissolved)	10	1	9.3		109	74.9 - 122	
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Sample Type **MS** Units: pCi/L

Sample ID	RunNo: 73374	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108010-001CMS	08/12/11 16:13	Radium 228 (Dissolved)	9	1	9.3	ND	94.5	48.4 - 167	
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Sample Type **DUP** Units: pCi/L

Sample ID	RunNo: 73374	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108020-002ADUP	08/12/11 16:13	Radium 228 (Dissolved)	ND	1	ND			20	
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- 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: S1107454
Project: Reno Creek Project

Date: 8/25/2011
Report ID: S1107454001

Radium 226 by SM 7500

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

Sample ID	RunNo: 73377	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-213B	08/09/11 8:57	Radium 226 (Dissolved)	ND	0.2					

Sample ID	RunNo: 73444	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-220	08/15/11 15:02	Radium 226 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 73377	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-213B	08/09/11 8:57	Radium 226 (Dissolved)	5.4	0.2	5		109	62.5 - 125	

Sample ID	RunNo: 73444	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-220	08/15/11 15:02	Radium 226 (Suspended)	4.8	0.2	5		96.3	56.4 - 132	

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

Sample ID	RunNo: 73377	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107426-001FMS	08/09/11 8:57	Radium 226 (Dissolved)	5.2	0.2	5	0.3	98.3	41.6 - 146	

Sample ID	RunNo: 73444	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107455-001FMS	08/15/11 17:13	Radium 226 (Suspended)	4.7	0.2	5	ND	92.9	51.4 - 135	

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

Sample ID	RunNo: 73377	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107425-001FDUP	08/09/11 8:57	Radium 226 (Dissolved)	0.4	0.2	0.5	8.36		20	

Sample ID	RunNo: 73444	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107454-001FDUP	08/15/11 17:13	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: S1107454
Project: Reno Creek Project

Date: 8/25/2011
Report ID: S1107454001

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

Sample ID	RunNo: 73376	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-213	08/10/11 8:38	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 73466	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-221	08/15/11 8:38	Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 73376	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-213	08/10/11 8:38	Thorium 230 (Dissolved)	12	0.2	12		99.8	67.1 - 134	

Sample ID	RunNo: 73466	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-221	08/15/11 8:38	Thorium 230 (Suspended)	13	0.2	12		102	69.2 - 127	

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

Sample ID	RunNo: 73376	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107418-001FDUP	08/10/11 8:38	Thorium 230 (Dissolved)	ND	0.2	ND			20	

Sample ID	RunNo: 73466	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108111-003EDUP	08/15/11 8:38	Thorium 230 (Dissolved)	ND	0.2	ND			20	

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

Sample ID	RunNo: 73365	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R73365	07/28/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 73365	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R73365	07/28/11 0:00	Radon-222	21900	100	22500		97.3	75 - 125	L

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

Sample ID	RunNo: 73365	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107454-001A	07/28/11 0:00	Radon-222	3410	50	3610	5.54		20	L

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

Sample ID	RunNo: 72762	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	07/28/11 14:35	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 72762	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	07/28/11 14:37	Silica as SiO2	2.0	0.1	2.14		95.4	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: S1107454
Project: Reno Creek Project

Date: 8/25/2011
Report ID: S1107454001

Solids By SM 2540

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

Sample ID	RunNo: 73063	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	07/29/11 14:10	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 73063	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	07/29/11 14:15	Total Dissolved Solids (180)	220	10	226		96.5	90 - 110	

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

Sample ID	RunNo: 73063	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107456-001A	07/29/11 14:50	Total Dissolved Solids (180)	1740	10	1760	0.683		20	

Total (200.2) Metals by EPA 200.7 ICP - Water

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

Sample ID	RunNo: 72901	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-5341	08/01/11 17:48	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 72901	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-5341	08/01/11 17:50	Iron	0.48	0.05	0.5		96.3	85 - 115	
		Manganese	0.20	0.02	0.2		98.2	85 - 115	

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

Sample ID	RunNo: 72901	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107425-001ES	08/01/11 17:55	Iron	0.59	0.05	0.5	0.10	96.9	70 - 130	
		Manganese	0.21	0.02	0.2	ND	101	70 - 130	

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

Sample ID	RunNo: 72901	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107426-001ED	08/01/11 18:09	Iron	0.22	0.05	0.22	1.08		20	
		Manganese	ND	0.02	ND			20	

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1107454
Project: Reno Creek Project

Date: 8/25/2011
Report ID: S1107454001

Suspended Natural Uranium

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

Sample ID	RunNo: 73195	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	08/09/11 12:49	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 73195	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	08/09/11 12:45	Uranium Suspended	0.105	0.0003	0.1		105	85 - 115	

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

Sample ID	RunNo: 73195	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107418-001FS	08/09/11 14:18	Uranium Suspended	1.14	0.0003	1.1	ND	103	70 - 130	

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

Sample ID	RunNo: 73195	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107418-001FD	08/09/11 14:14	Uranium Suspended	ND	0.0003	ND			20	

pH Water

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

Sample ID	RunNo: 72760	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	07/28/11 15:04	pH	8.5	0.1	8.48		99.8	90 - 110	

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

Sample ID	RunNo: 72760	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107464-001AD	07/28/11 18:42	pH	8.1	0.1	7.8	4.84		20	

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



Inter-Mountain Labs
 Sheridan, WY and Gillette, WY
 1673 Terra Ave.
 Sheridan, WY 82801
 (307) 692-8845

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- CHAIN OF CUSTODY RECORD -

Client Name AUC LLC		Report Address peavendor@auc-llc.com; thickerson@treccorp.com; jshriver@treccorp.com		Project Identification Reno Creek Project		Sampler (Signature/Printed)		Telephone #							
Invoice Address AUC LLC		Contact Name Traci Nickerson		Email		Purchase Order #		Quote #							
900 Winder Ct. #150 Casper WY 82401		307.265.0696													
ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	ANALYSES / PARAMETERS			REMARKS					
1	5110454-001	7/27/11	10:29	UM7-001-110727	WT13	X	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)	Ground water	
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
LAB COMMENTS				Relinquished By (Signature/Printed)				DATE				TIME			
Co. V				Wagner & Co.				7/27/11 4:00p				7/27/11 1645			
				Traci Nickerson				7/28/11 9:54							
SHIPPING INFO		MATRIX CODES		TURNAROUND TIMES		COMPLIANCE INFORMATION		ADDITIONAL REMARKS							
<input type="checkbox"/> UPS <input type="checkbox"/> Fed Express <input type="checkbox"/> US Mail <input type="checkbox"/> Hand Carried <input checked="" type="checkbox"/> Other _____		Water <input type="checkbox"/> WT <input checked="" type="checkbox"/> SL Soil <input type="checkbox"/> SD Solid <input type="checkbox"/> TB Trip Blank <input type="checkbox"/> OT Other _____		<input type="checkbox"/> Check desired service <input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH - 5 Working Days <input type="checkbox"/> URGENT - < 2 Working Days Rush & Urgent Surcharges will be applied		<input type="checkbox"/> Compliance Monitoring? Program (SDWA, NPDES,...) PWSID / Permit # _____ <input type="checkbox"/> Chlorinated? Sample Disposal: Lab _____ Client _____		<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N <input type="checkbox"/> Y / <input checked="" type="checkbox"/> N							