



Thursday, October 13, 2011

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

RE: Reno Creek Project
Orde

r No.: S1108583

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples PZM15-003-110830 on August 30, 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: 10/13/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1108583

CASE NARRATIVE
Report ID: S1108583001

Sample PZM15-003-110830 was received on August 30, 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

- S1109009-002 - Anions/Fluoride - Spike Recovery outside accepted recovery limits (2)
- MB-R74724 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- LCS-R74724 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- S1108583-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- S1108583-001 - General Parameters/Total Dissolved Solids (180) - Holding times for preparation or analysis exceeded (1)

(1) The sample were received and initially analyzed for Total Dissolved Solids within holding. The QC associated with the initial batch failed. Samples were re-analyzed out of holding.

(2) Spike failed due to possible matrix interference from the sample.

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: S1108583-001
ClientSample ID: PZM15-003-110830
COC: RC 08367

Date Reported: 10/13/2011
Report ID: S1108583001
WorkOrder: S1108583
CollectionDate: 8/30/2011 1:15:00 PM
DateReceived: 8/30/2011 4:30:00 PM
FieldSampler: TN
Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include pH Reading, Conductivity Reading, Turbidity Reading, Dissolved Oxygen Reading, Temperature Reading, Oxygen Reduction Potential Reading, Purge Rate Reading, and Water Level Reading.

These results apply only to the samples tested.

RL - Reporting Limit

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

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

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



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
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DateReceived: 8/30/2011 4:30:00 PM
FieldSampler: TN
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, etc.).

These results apply only to the samples tested.

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



Sample Analysis Report

Company: AUC LLC
 1536 Cole Blvd
 Lakewood, CO 80401

ProjectName: Reno Creek Project
Lab ID: S1108583-001
ClientSample ID: PZM15-003-110830
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Date Reported: 10/13/2011
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CollectionDate: 8/30/2011 1:15:00 PM
DateReceived: 8/30/2011 4:30:00 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	9/1/2011 4:06:23 PM	DG
Arsenic	ND	mg/L		0.001	EPA 200.8	8/31/2011 5:03:21 PM	MS
Barium	ND	mg/L		0.1	EPA 200.8	8/31/2011 5:03:21 PM	MS
Boron	ND	mg/L		0.1	EPA 200.7	9/1/2011 4:06:23 PM	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	8/31/2011 5:03:21 PM	MS
Chromium	ND	mg/L		0.01	EPA 200.7	9/1/2011 4:06:23 PM	DG
Copper	ND	mg/L		0.01	EPA 200.8	8/31/2011 5:03:21 PM	MS
Iron	ND	mg/L		0.05	EPA 200.7	9/1/2011 4:06:23 PM	DG
Lead	ND	mg/L		0.01	EPA 200.8	8/31/2011 5:03:21 PM	MS
Manganese	0.05	mg/L		0.01	EPA 200.7	9/1/2011 4:06:23 PM	DG
Mercury	ND	mg/L		0.001	EPA 245.1	9/7/2011 8:49:09 AM	BK
Molybdenum	ND	mg/L		0.01	EPA 200.8	8/31/2011 5:03:21 PM	MS
Nickel	ND	mg/L		0.05	EPA 200.7	9/1/2011 4:06:23 PM	DG
Selenium	ND	mg/L		0.005	EPA 200.8	8/31/2011 5:03:21 PM	MS
Uranium	0.0517	mg/L		0.0003	EPA 200.8	8/31/2011 5:03:21 PM	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	8/31/2011 5:03:21 PM	MS
Zinc	ND	mg/L		0.01	EPA 200.7	9/1/2011 4:06:23 PM	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	9/9/2011 1:32:27 PM	MS
Metals - Total							
Iron	0.23	mg/L		0.05	EPA 200.7	9/6/2011 7:16:01 PM	DG
Manganese	0.05	mg/L		0.01	EPA 200.7	9/6/2011 7:16:01 PM	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

- * Value exceeds Maximum Contaminant Level
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- 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: S1108583-001
ClientSample ID: PZM15-003-110830
COC: RC 08367

Date Reported: 10/13/2011
Report ID: S1108583001

WorkOrder: S1108583
CollectionDate: 8/30/2011 1:15:00 PM
DateReceived: 8/30/2011 4:30:00 PM
FieldSampler: TN
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	68.4	pCi/L		2	SM 7110B	10/3/2011 3:14:00 PM	SH
Gross Alpha Precision (±)	6.1	pCi/L			SM 7110B	10/3/2011 3:14:00 PM	SH
Gross Beta	22.5	pCi/L		4	SM 7110B	10/3/2011 3:14:00 PM	SH
Gross Beta Precision (±)	3.2	pCi/L			SM 7110B	10/3/2011 3:14:00 PM	SH
Lead 210	4.1	pCi/L		1	OTW01	10/10/2011 3:29:00 PM	SH
Lead 210 Precision (±)	0.8	pCi/L			OTW01	10/10/2011 3:29:00 PM	SH
Polonium 210	ND	pCi/L		1	OTW01	10/10/2011 12:50:00 PM	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/10/2011 12:50:00 PM	SH
Radium 226	6.4	pCi/L		0.2	SM 7500-Ra B	9/15/2011 12:04:00 PM	SH
Radium 226 Precision (±)	0.4	pCi/L			SM 7500-Ra B	9/15/2011 12:04:00 PM	SH
Radium 228	ND	pCi/L		1	Ra-05	10/5/2011 4:46:00 PM	SH
Radium 228 Precision (±)	NA	pCi/L			Ra-05	10/5/2011 4:46:00 PM	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/4/2011 2:04:00 PM	SH
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/4/2011 2:04:00 PM	SH
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/4/2011 5:55:00 PM	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/4/2011 5:55:00 PM	SH
Polonium 210	ND	pCi/L		1	OTW01	10/4/2011 1:24:00 PM	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/4/2011 1:24:00 PM	SH
Radium 226	ND	pCi/L		0.2	SM 7500-Ra B	9/27/2011 5:12:00 PM	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500-Ra B	9/27/2011 5:12:00 PM	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/6/2011 2:02:00 PM	SH
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/6/2011 2:02:00 PM	SH
Radionuclides - Total							
Radon 222	2700	pCi/L	L	50	SM7500-RN	8/31/2011	LJK
Radon 222 Precision (±)	310	pCi/L	L		SM7500-RN	8/31/2011	LJK

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- O Outside the Range of Dilutions

Reviewed by: 
Lacey Ketron, Water Lab Supervisor



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108583
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108583001

Alkalinity

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

Sample ID	RunNo: 74055	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/01/11 16:25	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 74055	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/01/11 16:16	Alkalinity, Total (As CaCO3)	593	5	601		98.7	90 - 110	

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

Sample ID	RunNo: 74055	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108582-001AD	09/01/11 17:59	Alkalinity, Bicarbonate as HCO3	295	5	299	1.16		20	
		Alkalinity, Carbonate as CO3	ND	5	ND			20	
		Alkalinity, Total (As CaCO3)	248	5	248	0.0408		20	

Conductivity

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 74055	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/01/11 16:25	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 74055	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/01/11 16:16	Electrical Conductivity	1130	5	1120		100	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 74055	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108582-001AD	09/01/11 17:59	Electrical Conductivity	2010	5	2010	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: S1108583
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108583001

Dissolved Mercury by EPA 245.1 - Water

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

Sample ID	RunNo: 74230	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	09/07/11 8:09	Mercury	ND	0.001					

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

Sample ID	RunNo: 74230	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	09/07/11 8:07	Mercury	0.002	0.001	0.002		99.9	85 - 115	

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

Sample ID	RunNo: 74230	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108566-001C	09/07/11 8:36	Mercury	0.002	0.001	0.00244	ND	87.2	70 - 130	

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

Sample ID	RunNo: 74230	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108566-001C	09/07/11 8:38	Mercury	0.002	0.001	0.002	2.86	89.7	20	

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

Sample ID	RunNo: 74230	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108566-001C	09/07/11 8:35	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: S1108583
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108583001

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

Sample ID	RunNo: 74056	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	09/01/11 13:01	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: 74056	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	09/01/11 13:04	Aluminum	1.0	0.1	1		104	85 - 115	
		Boron	1.0	0.1	1		98.2	85 - 115	
		Chromium	1.02	0.01	1		102	85 - 115	
		Iron	1.03	0.05	1		103	85 - 115	
		Manganese	1.03	0.02	1		103	85 - 115	
		Nickel	1.05	0.01	1		105	85 - 115	
		Zinc	1.03	0.01	1		103	85 - 115	

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

Sample ID	RunNo: 74056	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108583-001DS	09/01/11 16:08	Aluminum	0.6	0.1	0.5	ND	127	70 - 130	
		Boron	0.6	0.1	0.5	ND	118	70 - 130	
		Chromium	0.61	0.01	0.5	ND	121	70 - 130	
		Iron	0.59	0.05	0.5	ND	118	70 - 130	
		Manganese	0.64	0.02	0.5	0.05	118	70 - 130	
		Nickel	0.60	0.01	0.5	ND	120	70 - 130	
		Zinc	0.61	0.01	0.5	ND	121	70 - 130	

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

Sample ID	RunNo: 74056	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108583-001DSD	09/01/11 16:11	Aluminum	0.6	0.1	0.6	9.83	115	20	
		Boron	0.6	0.1	0.6	8.97	107	20	
		Chromium	0.54	0.01	0.61	10.9	108	20	
		Iron	0.54	0.05	0.59	9.33	107	20	
		Manganese	0.58	0.02	0.64	8.97	106	20	
		Nickel	0.54	0.01	0.60	9.64	108	20	
		Zinc	0.54	0.01	0.61	10.9	108	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: S1108583
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108583001

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 74056	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108582-001DD	09/01/11 16:04	Aluminum	ND	0.1	ND			20	
		Boron	ND	0.1	ND			20	
		Chromium	ND	0.01	ND			20	
		Iron	0.27	0.05	0.27	0.256		20	
		Manganese	0.59	0.02	0.59	0.948		20	
		Nickel	0.02	0.01	0.03	3.13		20	
		Zinc	0.04	0.01	0.04	1.06		20	

Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 74002	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	08/31/11 13:21	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: 74002	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	08/31/11 13:17	Arsenic	0.102	0.005	0.1		102	85 - 115	
		Barium	ND	0.5	0.1		96.7	85 - 115	
		Cadmium	0.099	0.002	0.1		99.2	85 - 115	
		Copper	0.09	0.01	0.1		94.6	85 - 115	
		Lead	0.10	0.02	0.1		102	85 - 115	
		Molybdenum	0.10	0.02	0.1		100	85 - 115	
		Selenium	0.099	0.005	0.1		98.6	85 - 115	
		Uranium	0.095	0.001	0.1		95.4	85 - 115	
		Vanadium	0.09	0.02	0.1		90.7	85 - 115	

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**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1108583
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108583001

Dissolved Metals by ICPMS EPA 200.8 - WaterSample Type **MS** Units: mg/L

Sample ID	RunNo: 74002	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108581-001DS	08/31/11 16:51	Arsenic	1.15	0.005	1.1	ND	104	70 - 130	
		Barium	1.1	0.5	1.1	ND	95.8	70 - 130	
		Cadmium	1.08	0.002	1.1	ND	98.5	70 - 130	
		Copper	1.06	0.01	1.1	ND	96.0	70 - 130	
		Lead	1.08	0.02	1.1	ND	98.2	70 - 130	
		Molybdenum	1.13	0.02	1.1	ND	102	70 - 130	
		Selenium	1.12	0.005	1.1	ND	102	70 - 130	
		Uranium	1.07	0.001	1.1	0.001	96.9	70 - 130	
		Vanadium	1.00	0.02	1.1	ND	90.8	70 - 130	

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

Sample ID	RunNo: 74002	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108581-001DMSD	08/31/11 16:55	Arsenic	1.14	0.005	1.15	0.443	104	20	
		Barium	1.1	0.5	1.1	0.569	95.2	20	
		Cadmium	1.07	0.002	1.08	0.882	97.6	20	
		Copper	1.06	0.01	1.06	0.150	96.1	20	
		Lead	1.09	0.02	1.08	0.771	99.0	20	
		Molybdenum	1.13	0.02	1.13	0.514	103	20	
		Selenium	1.11	0.005	1.12	0.850	101	20	
		Uranium	1.06	0.001	1.07	0.249	96.7	20	
		Vanadium	1.00	0.02	1.00	0.0130	90.8	20	

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

Sample ID	RunNo: 74002	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108581-001DD	08/31/11 16:47	Arsenic	ND	0.005	ND			20	
		Barium	ND	0.5	ND			20	
		Cadmium	ND	0.002	ND			20	
		Copper	ND	0.01	ND			20	
		Lead	ND	0.02	ND			20	
		Molybdenum	ND	0.02	ND			20	
		Selenium	ND	0.005	ND			20	
		Uranium	0.001	0.001	0.001	8.32		20	
		Vanadium	ND	0.02	ND			20	

Qualifiers:

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

CLIENT: AUC LLC
Work Order: S1108583
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108583001

Fluoride by SM 4500

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

Sample ID	RunNo: 74055	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/01/11 16:25	Fluoride	ND	0.1					

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

Sample ID	RunNo: 74055	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/01/11 16:16	Fluoride	3.0	0.1	2.96		103	90 - 110	

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

Sample ID	RunNo: 74055	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109009-002ASPK	09/01/11 21:37	Fluoride	2.1	0.1	2.5	0.9	44.6	80 - 120	S

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

Sample ID	RunNo: 74055	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108582-001AD	09/01/11 17:59	Fluoride	0.3	0.1	0.3	0.559		20	

Gross Alpha, Beta by SM 7110B

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

Sample ID	RunNo: 75326	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-273	10/03/11 15:14	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 75326	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-273	10/03/11 15:14	Gross Alpha (Dissolved)	83	2	73.6		112	83 - 133	
		Gross Beta (Dissolved)	135	3	126		107	88 - 115	

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

Sample ID	RunNo: 75326	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108612-001FMS	10/03/11 15:14	Gross Alpha (Dissolved)	210	2	147	83	86.6	48 - 153	
		Gross Beta (Dissolved)	302	4	252	38	105	60 - 140	

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

Sample ID	RunNo: 75326	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109004-002GDUP	10/03/11 15:14	Gross Alpha (Dissolved)	9	2	10	14.4		20	
		Gross Beta (Dissolved)	11	3	9	19.5		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: S1108583
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108583001

Anions by ION Chromatography

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

Sample ID	RunNo: 74469	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/12/11 10:36	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 74469	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	09/12/11 10:49	Chloride	31	1	30		102	90 - 110	
		Sulfate	146	1	150		97.7	90 - 110	

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

Sample ID	RunNo: 74469	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108615-001ASPK	09/13/11 2:51	Chloride	6	1	5	ND	118	80 - 120	
		Sulfate	61	1	40	24	92.6	80 - 120	

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

Sample ID	RunNo: 74469	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108615-001AD	09/13/11 2:38	Chloride	ND	1	ND			20	
		Sulfate	24	1	24	0.381		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: S1108583
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108583001

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

Sample ID	RunNo: 74567	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	09/14/11 10:10	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 74567	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	09/14/11 10:15	Calcium	39	1	40		97.0	85 - 115	
		Magnesium	41	1	40		102	85 - 115	
		Potassium	39	1	40		96.5	85 - 115	
		Sodium	37	1	40		93.4	85 - 115	

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

Sample ID	RunNo: 74567	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109229-006AS	09/14/11 14:14	Calcium	55	1	50	3	104	70 - 130	
		Magnesium	57	1	50	ND	112	70 - 130	
		Potassium	53	1	50	2	102	70 - 130	
		Sodium	53	1	50	1	103	70 - 130	

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

Sample ID	RunNo: 74567	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109229-006ASD	09/14/11 14:16	Calcium	55	1	55	1.42	105	20	
		Magnesium	57	1	57	1.23	113	20	
		Potassium	53	1	53	1.16	103	20	
		Sodium	53	1	53	1.22	104	20	

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

Sample ID	RunNo: 74567	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109229-005AD	09/14/11 14:09	Calcium	1	1	1	0.520		20	
		Magnesium	ND	1	ND			20	
		Potassium	1	1	1	0.650		20	
		Sodium	ND	1	ND			20	

Qualifiers:

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108583
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108583001

Nitrogen, Ammonia (as N)

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

Sample ID	RunNo: 74708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/16/11 13:41	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 74708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	09/16/11 13:43	Nitrogen, Ammonia (As N)	10.1	0.1	10		101	90 - 110	

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

Sample ID	RunNo: 74708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109241-001B	09/16/11 15:13	Nitrogen, Ammonia (As N)	12.4	0.1	10	1.9	106	80 - 120	

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

Sample ID	RunNo: 74708	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109241-001B	09/16/11 15:12	Nitrogen, Ammonia (As N)	1.9	0.1	1.9	0.938		20	

Nitrogen, Nitrate-Nitrite (as N)

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

Sample ID	RunNo: 74698	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	09/16/11 10:16	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 74698	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	09/16/11 10:18	Nitrogen, Nitrate-Nitrite (as N)	2.4	0.1	2.31		105	90 - 110	

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

Sample ID	RunNo: 74698	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109229-004B	09/16/11 12:39	Nitrogen, Nitrate-Nitrite (as N)	9.9	0.1	10	ND	98.9	80 - 120	

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

Sample ID	RunNo: 74698	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109229-004B	09/16/11 12:38	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1	ND			20	

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1108583
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108583001

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

Sample ID	RunNo: 75405	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-269	10/04/11 15:52	Lead 210 (Suspended)	ND	1					

Sample ID	RunNo: 75406	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-269	10/04/11 12:15	Polonium 210 (Suspended)	ND	1					

Sample ID	RunNo: 75583	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-272	10/10/11 15:29	Lead 210 (Dissolved)	ND	1					

Sample ID	RunNo: 75584	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-272	10/10/11 12:50	Polonium 210 (Dissolved)	ND	1					

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

Sample ID	RunNo: 75405	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-269	10/04/11 15:52	Lead 210 (Suspended)	14	1	12.9		108	60.3 - 141	

Sample ID	RunNo: 75406	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-269 PO	10/04/11 12:15	Polonium 210 (Suspended)	3	1	2.49		138	48.6 - 156	

Sample ID	RunNo: 75583	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-272	10/10/11 15:29	Lead 210 (Dissolved)	15	1	12.9		113	67.6 - 131	

Sample ID	RunNo: 75584	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-272 PO	10/10/11 12:50	Polonium 210 (Dissolved)	3	1	2.42		119	35.1 - 175	

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

Sample ID	RunNo: 75405	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108364-004EMS	10/04/11 15:52	Lead 210 (Suspended)	14	1	12.9	1	94.0	62.4 - 132	

Sample ID	RunNo: 75406	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108364-004EMS	10/04/11 12:15	Polonium 210 (Suspended)	11	1	12.9	ND	81.3	28 - 173	

Sample ID	RunNo: 75583	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108611-001FMS	10/10/11 15:29	Lead 210 (Dissolved)	20	1	12.9	6	103	66 - 133	

Sample ID	RunNo: 75584	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108611-001FMS	10/10/11 12:50	Polonium 210 (Dissolved)	9	1	12.9	ND	71.4	20.9 - 160	

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: S1108583
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108583001

Lead 210 and Polonium 210

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

Sample ID	RunNo: 75405	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108581-001FDUP 10/04/11 17:55 Lead 210 (Suspended) 1 1 1 20.5 20

Sample ID	RunNo: 75406	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108581-001FDUP 10/04/11 13:24 Polonium 210 (Suspended) ND 1 ND 20

Sample ID	RunNo: 75583	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108582-001FDUP 10/10/11 15:29 Lead 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo: 75584	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108582-001FDUP 10/10/11 12:50 Polonium 210 (Dissolved) ND 1 ND 20

Radium 228

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

Sample ID	RunNo: 75417	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-272 10/05/11 16:46 Radium 228 (Dissolved) ND 1

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

Sample ID	RunNo: 75417	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-272 10/05/11 16:46 Radium 228 (Dissolved) 10 1 9.94 104 74.9 - 122

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

Sample ID	RunNo: 75417	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108581-001FMS 10/05/11 16:46 Radium 228 (Dissolved) 10 1 9.94 ND 103 48.4 - 167

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

Sample ID	RunNo: 75417	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108583-001FDUP 10/05/11 16:46 Radium 228 (Dissolved) ND 1 ND 20

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1108583
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108583001

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

Sample ID	RunNo: 74900	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-255	09/15/11 9:32	Radium 226 (Dissolved)	ND	0.2					

Sample ID	RunNo: 75190	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-262	09/27/11 17:12	Radium 226 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 74900	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-255	09/15/11 9:32	Radium 226 (Dissolved)	4.9	0.2	5.06		96.7	62.5 - 125	

Sample ID	RunNo: 75190	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-262	09/27/11 17:12	Radium 226 (Suspended)	4.8	0.2	5.06		94.5	56.4 - 132	

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

Sample ID	RunNo: 74900	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108554-001FMS	09/15/11 9:32	Radium 226 (Dissolved)	4.7	0.2	5.06	ND	93.1	41.6 - 146	

Sample ID	RunNo: 75190	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108612-001FMS	09/27/11 17:12	Radium 226 (Suspended)	5.1	0.2	5.06	0.2	95.8	51.4 - 135	

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

Sample ID	RunNo: 74900	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108554-002FDUP	09/15/11 9:32	Radium 226 (Dissolved)	ND	0.2	ND			20	

Sample ID	RunNo: 75190	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109004-004GDUP	09/27/11 17:12	Radium 226 (Suspended)	ND	0.2	ND			20	

Qualifiers:

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1108583
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108583001

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

Sample ID	RunNo: 75556	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-263	10/03/11 9:12	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 75561	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-270	10/06/11 9:05	Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 75556	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-263	10/03/11 9:12	Thorium 230 (Dissolved)	12	0.2	12		95.6	67.1 - 134	

Sample ID	RunNo: 75561	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-270	10/06/11 9:05	Thorium 230 (Suspended)	14	0.2	12		111	69.2 - 127	

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

Sample ID	RunNo: 75556	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109004-001GDUP	10/03/11 9:12	Thorium 230 (Dissolved)	0.2	0.2	0.2	9.87		20	

Sample ID	RunNo: 75561	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109172-001EDUP	10/07/11 8:37	Thorium 230 (Suspended)	ND	0.2	ND			20	

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

Sample ID	RunNo: 74724	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R74724	08/31/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 74724	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R74724	08/31/11 0:00	Radon-222	22900	100	22500		102	75 - 125	L

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

Sample ID	RunNo: 74724	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108583-001A	08/31/11 0:00	Radon-222	2670	50	2700	1.11		20	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: S1108583
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108583001

Silica as SiO2

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

Sample ID	RunNo: 74058	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	09/01/11 13:01	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 74058	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	09/01/11 13:04	Silica as SiO2	2.1	0.1	2.14		97.9	85 - 115	

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

Sample ID	RunNo: 74058	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108582-001DD	09/01/11 16:04	Silica as SiO2	17.6	0.1	17.6	0.168		20	

Solids By SM 2540

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

Sample ID	RunNo: 74368	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	09/08/11 10:10	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 74368	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	09/08/11 10:15	Total Dissolved Solids (180)	220	10	226		99.1	90 - 110	

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

Sample ID	RunNo: 74368	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108582-001A	09/08/11 10:25	Total Dissolved Solids (180)	1640	10	1620	0.985		20	H

- 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: S1108583
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108583001

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

Sample ID	RunNo: 74174	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-5428	09/06/11 18:52	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 74174	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-5428	09/06/11 20:27	Iron	0.51	0.05	0.5		102	85 - 115	
		Manganese	0.20	0.02	0.2		101	85 - 115	

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

Sample ID	RunNo: 74174	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108582-001ES	09/06/11 19:11	Iron	0.56	0.05	0.5	0.09	94.7	70 - 130	
		Manganese	0.84	0.02	0.2	0.66	92.7	70 - 130	

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

Sample ID	RunNo: 74174	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109020-001ED	09/06/11 21:17	Iron	1.37	0.05	1.39	2.01		20	
		Manganese	ND	0.02	ND			20	

Suspended Natural UraniumSample Type **MBLK** Units: mg/L

Sample ID	RunNo: 74361	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	09/09/11 12:24	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 74361	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	09/09/11 12:20	Uranium Suspended	0.103	0.0003	0.1		103	85 - 115	

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

Sample ID	RunNo: 74361	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108581-001FS	09/09/11 13:20	Uranium Suspended	1.15	0.0003	1.1	0.0003	105	70 - 130	

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

Sample ID	RunNo: 74361	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108581-001FMSD	09/09/11 13:24	Uranium Suspended	1.17	0.0003	1.15	1.33	106	20	

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

Sample ID	RunNo: 74361	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108581-001FD	09/09/11 13:08	Uranium Suspended	0.0003	0.0003	0.0003	5.08		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: S1108583
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108583001

pH Water

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

Sample ID	RunNo: 74055	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/01/11 16:16	pH	8.6	0.1	8.48		102	90 - 110	

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

Sample ID	RunNo: 74055	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108582-001AD	09/01/11 17:59	pH	8.4	0.1	8.4	0.424		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) 682-6945

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08367

- CHAIN OF CUSTODY RECORD -

Client Name AUC LLC		Report Address pcavendor@auc-llc.com; mickerson@treccorp.com; jshriver@treccorp.com		Project Identification Reno Creek Project		Sampler (Signature/Printed) <i>Yvonne Mickerson</i>		Telephone #			
Invoice Address AUC LLC 900 W. W. W. St. 54150 Casper WY 82604		Contact Name <i>Yvonne Mickerson</i>		Email mickerson@treccorp.com		Phone 307-265-0696		Purchase Order #			
ITEM		LAB ID		DATE SAMPLED		TIME		SAMPLE IDENTIFICATION			
1		51105833		8/30/11		1315		P2M15-003-110830 WJ 13 X			
2											
3											
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14											
LAB COMMENTS		Relinquished By (Signature/Printed)		DATE		TIME		Received By (Signature/Printed)			
11.7		<i>Yvonne Mickerson</i>		8/30/11		16:30		<i>Yvonne Davis</i>			
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 WT Soil SL Solid SD Trip Blank TB Other OT		<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 _____					