



Tuesday, November 22, 2011

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

RE: Reno Creek Project
Orde

r No.: S1109409

Dear Phil Cavendor:

Inter-Mountain Laboratories received sample PZM2-002-110919 on September 21, 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: 11/22/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1109409

CASE NARRATIVE
Report ID: S1109409001

Sample PZM2-002-110919 was received on September 21, 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 Energy Laboratories, Inc (ELI) NEHA Certification #: 101188 AL

Qualifiers by sample

MB-R75588 - General Parameters/Radon-222 - Analyzed by a contract laboratory
LCS-R75588 - General Parameters/Radon-222 - Analyzed by a contract laboratory
S1109409-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
TAP WATER MS - Radiochemistry/Polonium 210 (Dissolved) - Spike Recovery outside accepted recovery limits

Reviewed by:

Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401
ProjectName: Reno Creek Project
Lab ID: S1109409-001
ClientSample ID: PZM2-002-110919
COC: RC 08337

Date Reported 11/22/2011
Report ID S1109409001
WorkOrder: S1109409
CollectionDate: 9/19/2011 11:00:00 AM
DateReceived: 9/21/2011 11:42:00 AM
FieldSampler: TN
Matrix: Water

Comments

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

These results apply only to the samples tested.

RL - Reporting Limit

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

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

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



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

ProjectName: Reno Creek Project
Lab ID: S1109409-001
ClientSample ID: PZM2-002-110919
COC: RC 08337

Date Reported: 11/22/2011
Report ID: S1109409001

WorkOrder: S1109409
CollectionDate: 9/19/2011 11:00:00 AM
DateReceived: 9/21/2011 11:42:00 AM
FieldSampler: TN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	90	mg/L		5	SM 2320B	9/23/2011 8:12:13 PM	AMB
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	9/23/2011 8:12:13 PM	AMB
Alkalinity, Carbonate as CO3	25	mg/L		5	SM 2320B	9/23/2011 8:12:13 PM	AMB
Chloride	7	mg/L		1	EPA 300.0	9/28/2011 9:14:00 PM	ARF
Fluoride	ND	mg/L		0.1	SM 4500FC	9/23/2011 8:12:13 PM	AMB
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	10/2/2011 4:55:00 PM	MEL
Sulfate	726	mg/L		1	EPA 300.0	10/1/2011 6:54:00 PM	KO
Calcium	84	mg/L		1	EPA 200.7	11/21/2011 8:08:07 PM	DG
Magnesium	ND	mg/L		1	EPA 200.7	11/21/2011 8:08:07 PM	DG
Potassium	48	mg/L		1	EPA 200.7	11/21/2011 8:05:42 PM	DG
Sodium	268	mg/L		1	EPA 200.7	11/21/2011 8:05:42 PM	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	9/30/2011 4:45:00 PM	MEL
Silica as SiO2	4	mg/L		1	EPA 200.7	9/22/2011 12:50:24 PM	AB
General Parameters							
pH	11.0	s.u.		0.1	SM 4500 H B	9/23/2011 8:12:13 PM	AMB
Electrical Conductivity	2000	µmhos/cm		5	SM 2510B	9/23/2011 8:12:13 PM	AMB
Total Dissolved Solids (180)	1200	mg/L		10	SM 2540	9/21/2011 2:20:00 PM	TH
Data Quality							
Cation Sum	17.09	meq/L		0.01	SM 1030E	11/22/2011 9:12:10 AM	LJK
Anion Sum	17.12	meq/L		0.01	SM 1030E	11/22/2011 9:12:10 AM	LJK
Cation-Anion Balance (± 5%)	0.07	%		0.01	SM 1030E	11/22/2011 9:12:10 AM	LJK
Solids, Total Dissolved (Calc)	1190	mg/L		10	SM 1030E	11/22/2011 9:12:10 AM	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.01	dec. %		0.01	Calculation	11/22/2011 9:13:54 AM	LJK

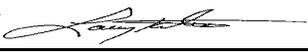
These results apply only to the samples tested.

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: S1109409-001
ClientSample ID: PZM2-002-110919
COC: RC 08337

Date Reported: 11/22/2011
Report ID: S1109409001

WorkOrder: S1109409
CollectionDate: 9/19/2011 11:00:00 AM
DateReceived: 9/21/2011 11:42:00 AM
FieldSampler: TN
Matrix: Water

Comments

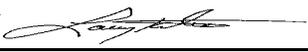
Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
Metals - Dissolved						
Aluminum	ND	mg/L		0.1	EPA 200.7	9/22/2011 12:50:24 PM AB
Arsenic	0.004	mg/L		0.001	EPA 200.8	9/21/2011 2:35:22 PM MS
Barium	ND	mg/L		0.1	EPA 200.8	9/21/2011 2:35:22 PM MS
Boron	ND	mg/L		0.1	EPA 200.7	9/22/2011 12:50:24 PM AB
Cadmium	ND	mg/L		0.001	EPA 200.8	9/21/2011 2:35:22 PM MS
Chromium	ND	mg/L		0.01	EPA 200.7	9/22/2011 12:50:24 PM AB
Copper	ND	mg/L		0.01	EPA 200.8	9/21/2011 2:35:22 PM MS
Iron	ND	mg/L		0.05	EPA 200.7	9/22/2011 12:50:24 PM AB
Lead	ND	mg/L		0.01	EPA 200.8	9/21/2011 2:35:22 PM MS
Manganese	ND	mg/L		0.01	EPA 200.7	9/22/2011 12:50:24 PM AB
Mercury	ND	mg/L		0.001	EPA 245.1	9/23/2011 9:50:50 AM BK
Molybdenum	ND	mg/L		0.01	EPA 200.8	9/21/2011 2:35:22 PM MS
Nickel	ND	mg/L		0.05	EPA 200.7	9/22/2011 12:50:24 PM AB
Selenium	0.009	mg/L		0.005	EPA 200.8	9/21/2011 2:35:22 PM MS
Uranium	0.0293	mg/L		0.0003	EPA 200.8	9/21/2011 2:35:22 PM MS
Vanadium	0.2	mg/L		0.1	EPA 200.8	9/21/2011 2:35:22 PM MS
Zinc	ND	mg/L		0.01	EPA 200.7	9/22/2011 12:50:24 PM AB
Metals - Suspended						
Uranium	0.0219	mg/L		0.0003	EPA 200.8	10/4/2011 1:22:01 PM MS
Metals - Total						
Iron	0.07	mg/L		0.05	EPA 200.7	9/26/2011 3:08:59 PM DG
Manganese	ND	mg/L		0.01	EPA 200.7	9/26/2011 3:08:59 PM DG

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: S1109409-001
ClientSample ID: PZM2-002-110919
COC: RC 08337

Date Reported 11/22/2011
Report ID S1109409001
WorkOrder: S1109409
CollectionDate: 9/19/2011 11:00:00 AM
DateReceived: 9/21/2011 11:42:00 AM
FieldSampler: TN
Matrix: Water

Comments

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

These results apply only to the samples tested.

RL - Reporting Limit

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

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

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1109409
Project: Reno Creek Project

Date: 11/22/2011
Report ID: S1109409001

Alkalinity

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

Sample ID	RunNo: 75008	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/23/11 12:43	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 75008	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/23/11 12:35	Alkalinity, Total (As CaCO3)	604	5	601		100	90 - 110	

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

Sample ID	RunNo: 75008	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109382-001AD	09/23/11 17:26	Alkalinity, Bicarbonate as HCO3	238	5	238	0.0517		20	
		Alkalinity, Carbonate as CO3	ND	5	ND			20	
		Alkalinity, Total (As CaCO3)	195	5	195	0.0517		20	

Conductivity

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 75008	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/23/11 12:43	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 75008	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/23/11 12:35	Electrical Conductivity	1090	5	1120		97.5	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 75008	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109382-001AD	09/23/11 17:26	Electrical Conductivity	2750	5	2760	0.362		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: S1109409
Project: Reno Creek Project

Date: 11/22/2011
Report ID: S1109409001

Dissolved Mercury by EPA 245.1 - Water

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

Sample ID	RunNo: 74958	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	09/23/11 8:18	Mercury	ND	0.001					

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

Sample ID	RunNo: 74958	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	09/23/11 8:16	Mercury	0.002	0.001	0.002		99.9	85 - 115	

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

Sample ID	RunNo: 74958	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109374-010D	09/23/11 9:33	Mercury	0.002	0.001	0.00244	ND	96.9	70 - 130	

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

Sample ID	RunNo: 74958	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109374-010D	09/23/11 9:35	Mercury	0.002	0.001	0.002	4.62	92.4	20	

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

Sample ID	RunNo: 74958	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109374-010D	09/23/11 9:31	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: S1109409
Project: Reno Creek Project

Date: 11/22/2011
Report ID: S1109409001

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

Sample ID	RunNo: 74947	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	09/22/11 11:55	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: 74947	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	09/22/11 11:58	Aluminum	1.0	0.1	1		99.2	85 - 115	
		Boron	0.9	0.1	1		92.3	85 - 115	
		Chromium	0.97	0.01	1		97.3	85 - 115	
		Iron	1.00	0.05	1		100	85 - 115	
		Manganese	1.01	0.02	1		101	85 - 115	
		Nickel	1.02	0.01	1		102	85 - 115	
		Zinc	1.02	0.01	1		102	85 - 115	

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

Sample ID	RunNo: 74947	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109419-003DS	09/22/11 13:34	Aluminum	0.7	0.1	0.5	0.3	89.1	70 - 130	
		Boron	0.4	0.1	0.5	ND	86.1	70 - 130	
		Chromium	0.46	0.01	0.5	ND	92.3	70 - 130	
		Iron	0.52	0.05	0.5	0.08	87.8	70 - 130	
		Manganese	0.48	0.02	0.5	ND	94.6	70 - 130	
		Nickel	0.45	0.01	0.5	ND	90.3	70 - 130	
		Zinc	0.47	0.01	0.5	ND	93.6	70 - 130	

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

Sample ID	RunNo: 74947	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109419-003DSD	09/22/11 13:37	Aluminum	0.7	0.1	0.7	0.112	89.3	20	
		Boron	0.5	0.1	0.4	7.11	92.2	20	
		Chromium	0.46	0.01	0.46	0.650	91.7	20	
		Iron	0.51	0.05	0.52	1.83	85.9	20	
		Manganese	0.48	0.02	0.48	0.230	94.4	20	
		Nickel	0.44	0.01	0.45	3.50	87.1	20	
		Zinc	0.46	0.01	0.47	1.05	92.6	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: S1109409
Project: Reno Creek Project

Date: 11/22/2011
Report ID: S1109409001

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 74947	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109419-002DD	09/22/11 13:30	Aluminum	0.5	0.1	0.5	0.371		20	
		Boron	ND	0.1	ND			20	
		Chromium	ND	0.01	ND			20	
		Iron	0.14	0.05	0.14	0		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: 74864	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	09/21/11 12:06	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: 74864	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	09/21/11 12:02	Arsenic	0.101	0.005	0.1		101	85 - 115	
		Barium	ND	0.5	0.1		99.1	85 - 115	
		Cadmium	0.101	0.002	0.1		101	85 - 115	
		Copper	0.10	0.01	0.1		98.5	85 - 115	
		Lead	0.10	0.02	0.1		99.4	85 - 115	
		Molybdenum	0.10	0.02	0.1		99.9	85 - 115	
		Selenium	0.101	0.005	0.1		101	85 - 115	
		Uranium	0.097	0.001	0.1		97.0	85 - 115	
		Vanadium	0.10	0.02	0.1		96.8	85 - 115	

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1109409
Project: Reno Creek Project

Date: 11/22/2011
Report ID: S1109409001

Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 74864	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109403-001DS	09/21/11 14:15	Arsenic	1.13	0.005	1.1	ND	103	70 - 130	
		Barium	1.1	0.5	1.1	ND	100	70 - 130	
		Cadmium	1.11	0.002	1.1	ND	101	70 - 130	
		Copper	1.08	0.01	1.1	ND	98.4	70 - 130	
		Lead	1.11	0.02	1.1	ND	101	70 - 130	
		Molybdenum	1.09	0.02	1.1	ND	98.9	70 - 130	
		Selenium	1.14	0.005	1.1	ND	104	70 - 130	
		Uranium	1.06	0.001	1.1	ND	96.1	70 - 130	
		Vanadium	1.08	0.02	1.1	ND	97.9	70 - 130	

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

Sample ID	RunNo: 74864	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109403-001DMSD	09/21/11 14:19	Arsenic	1.13	0.005	1.13	0.219	103	20	
		Barium	1.1	0.5	1.1	0.761	101	20	
		Cadmium	1.11	0.002	1.11	0.0503	101	20	
		Copper	1.08	0.01	1.08	0.490	97.9	20	
		Lead	1.12	0.02	1.11	0.252	101	20	
		Molybdenum	1.09	0.02	1.09	0.179	98.7	20	
		Selenium	1.14	0.005	1.14	0.122	104	20	
		Uranium	1.06	0.001	1.06	0.0517	96.2	20	
		Vanadium	1.08	0.02	1.08	0.168	97.8	20	

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

Sample ID	RunNo: 74864	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109403-001DD	09/21/11 14:11	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	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: S1109409
Project: Reno Creek Project

Date: 11/22/2011
Report ID: S1109409001

Fluoride by SM 4500

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

Sample ID	RunNo: 75008	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/23/11 12:43	Fluoride	ND	0.1					

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

Sample ID	RunNo: 75008	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/23/11 12:35	Fluoride	3.0	0.1	2.96		100	90 - 110	

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

Sample ID	RunNo: 75008	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109403-003ASPK	09/23/11 18:51	Fluoride	2.2	0.1	2.5	ND	86.4	80 - 120	

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

Sample ID	RunNo: 75008	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109382-001AD	09/23/11 17:26	Fluoride	0.2	0.1	0.2	1.56		20	

Gross Alpha, Beta by SM 7110B

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

Sample ID	RunNo: 76152	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-285	10/18/11 21:56	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 76152	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-285	10/18/11 21:56	Gross Alpha (Dissolved)	88	2	73.6		119	83 - 133	
		Gross Beta (Dissolved)	139	3	126		110	88 - 115	

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

Sample ID	RunNo: 76152	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108538-001FMS	10/18/11 21:56	Gross Alpha (Dissolved)	121	2	73.6	23	132	48 - 153	
		Gross Beta (Dissolved)	143	3	126	4	110	60 - 140	

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

Sample ID	RunNo: 76152	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108538-004FDUP	10/18/11 21:56	Gross Alpha (Dissolved)	502	2	471	6.73		20	
		Gross Beta (Dissolved)	114	3	109	3.98		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: S1109409
Project: Reno Creek Project

Date: 11/22/2011
Report ID: S1109409001

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

Sample ID	RunNo: 75148	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/28/11 9:19	Chloride	ND	1					
		Sulfate	ND	1					

Sample ID	RunNo: 75271	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	10/01/11 9:13	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 75148	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	09/28/11 9:31	Chloride	30	1	30		101	90 - 110	
		Sulfate	141	1	150		93.9	90 - 110	

Sample ID	RunNo: 75271	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	10/01/11 9:25	Chloride	32	1	30		105	90 - 110	
		Sulfate	146	1	150		97.3	90 - 110	

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

Sample ID	RunNo: 75148	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109416-002ASPK	09/28/11 22:05	Chloride	91	1	80	23	85.7	80 - 120	
		Sulfate	1020	1	640	444	90.5	80 - 120	

Sample ID	RunNo: 75271	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109503-026ASPK	10/01/11 21:07	Sulfate	62	1	40	21	104	80 - 120	

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

Sample ID	RunNo: 75148	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109416-002A	09/28/11 21:52	Chloride	22	5	23	0.899		20	
		Sulfate	450	10	440	0.210		20	

Sample ID	RunNo: 75271	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109503-026A	10/01/11 20:55	Sulfate	21	1	21	0.927		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: S1109409
Project: Reno Creek Project

Date: 11/22/2011
Report ID: S1109409001

Cations by ICP (Method 200.7)

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

Sample ID	RunNo: 77165	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	11/21/11 11:20	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 77165	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	11/21/11 11:25	Calcium	41	1	40		103	85 - 115	
		Magnesium	41	1	40		101	85 - 115	
		Potassium	41	1	40		101	85 - 115	
		Sodium	38	1	40		95.1	85 - 115	

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

Sample ID	RunNo: 77165	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1111336-007AS	11/21/11 19:46	Calcium	113	1	50	71	84.7	70 - 130	
		Magnesium	83	1	50	37	93.0	70 - 130	
		Sodium	61	1	50	11	101	70 - 130	

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

Sample ID	RunNo: 77165	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1111336-007ASD	11/21/11 19:48	Calcium	113	1	113	0.166	84.3	20	
		Magnesium	82	1	83	0.787	91.6	20	
		Sodium	62	1	61	0.856	102	20	

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

Sample ID	RunNo: 77165	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111336-006AD	11/21/11 19:41	Calcium	97	1	98	1.14		20	
		Magnesium	56	1	57	1.56		20	
		Sodium	157	1	159	1.17		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: S1109409
Project: Reno Creek Project

Date: 11/22/2011
Report ID: S1109409001

Nitrogen, Ammonia (as N)

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

Sample ID	RunNo: 75310	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/30/11 16:36	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 75310	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	09/30/11 16:38	Nitrogen, Ammonia (As N)	10.4	0.1	10		104	90 - 110	

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

Sample ID	RunNo: 75310	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109426-003B	09/30/11 16:54	Nitrogen, Ammonia (As N)	17.5	0.1	10	7.2	103	80 - 120	

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

Sample ID	RunNo: 75310	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109426-003B	09/30/11 16:53	Nitrogen, Ammonia (As N)	6.8	0.1	7.2	5.40		20	

Nitrogen, Nitrate-Nitrite (as N)

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

Sample ID	RunNo: 75307	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	10/02/11 15:44	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 75307	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	10/02/11 15:46	Nitrogen, Nitrate-Nitrite (as N)	2.4	0.1	2.31		103	90 - 110	

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

Sample ID	RunNo: 75307	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109457-002B	10/02/11 17:02	Nitrogen, Nitrate-Nitrite (as N)	10.2	0.1	10	ND	102	80 - 120	

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

Sample ID	RunNo: 75307	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109457-002B	10/02/11 17:01	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: S1109409
Project: Reno Creek Project

Date: 11/22/2011
Report ID: S1109409001

Lead 210 and Polonium 210

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

Sample ID	RunNo: 76288	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

MB11-283 10/26/11 9:59 Lead 210 (Dissolved) ND 1

Sample ID	RunNo: 76290	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

MB11-283 10/26/11 17:48 Polonium 210 (Suspended) ND 1

Sample ID	RunNo: 76291	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

MB11-283 10/27/11 9:06 Lead 210 (Suspended) ND 1

Sample ID	RunNo: 77065	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

MB11-304 11/18/11 9:22 Polonium 210 (Dissolved) ND 1

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

Sample ID	RunNo: 76288	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

LCS11-283 10/26/11 9:59 Lead 210 (Dissolved) 14 1 12.9 109 67.6 - 131

Sample ID	RunNo: 76290	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

LCS11-283 10/26/11 17:48 Polonium 210 (Suspended) 11 1 12.9 87.6 48.6 - 156

Sample ID	RunNo: 76291	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

LCS11-283 10/27/11 9:06 Lead 210 (Suspended) 14 1 12.9 109 60.3 - 141

Sample ID	RunNo: 77065	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

LCS11-304 PO 11/18/11 9:22 Polonium 210 (Dissolved) 3 1 2.09 137 35.1 - 175

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

Sample ID	RunNo: 76288	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

S1109408-001FMS 10/26/11 9:59 Lead 210 (Dissolved) 16 1 12.9 2 106 66 - 133

Sample ID	RunNo: 76290	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

S1109223-001EMS 10/26/11 17:48 Polonium 210 (Suspended) 8 1 12.9 ND 59.2 28 - 173

Sample ID	RunNo: 76291	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

S1109223-001EMS 10/27/11 9:06 Lead 210 (Suspended) 14 1 12.9 ND 106 62.4 - 132

Sample ID	RunNo: 77065	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

TAP WATER MS 11/18/11 9:22 Polonium 210 (Dissolved) 12 1 12.9 ND 93.2 20.9 - 160

- 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: S1109409
Project: Reno Creek Project

Date: 11/22/2011
Report ID: S1109409001

Lead 210 and Polonium 210

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

Sample ID	RunNo: 77065	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
TAP WATER MSD	11/18/11 9:22	Polonium 210 (Dissolved)	14	1	12	14.6		30	

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

Sample ID	RunNo: 76290	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109223-003EDUP	10/26/11 17:48	Polonium 210 (Suspended)	ND	1	ND			20	

Sample ID	RunNo: 76291	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109223-003EDUP	10/27/11 9:06	Lead 210 (Suspended)	ND	1	ND			20	

Sample ID	RunNo: 76288	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
CENTRAL-1	10/26/11 9:59	Lead 210 (Dissolved)	ND	1	ND			20	

Radium 228

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

Sample ID	RunNo: 76912	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-311	11/11/11 16:47	Radium 228 (Dissolved)	ND	1					

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

Sample ID	RunNo: 76912	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-311	11/11/11 16:47	Radium 228 (Dissolved)	10	1	9.94		100	74.9 - 122	

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

Sample ID	RunNo: 76912	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109433-001FMS	11/11/11 16:47	Radium 228 (Dissolved)	12	1	9.94	ND	117	48.4 - 167	

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

Sample ID	RunNo: 76912	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109433-002FDUP	11/11/11 16:47	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: S1109409
Project: Reno Creek Project

Date: 11/22/2011
Report ID: S1109409001

Radium 226 by SM 7500

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

Sample ID	RunNo: 75610	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-277	10/11/11 12:45	Radium 226 (Dissolved)	ND	0.2					
		Radium 226 (Suspended)	ND	0.2					

Sample ID	RunNo: 75818	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-278	10/11/11 16:13	Radium 226 (Dissolved)	ND	0.2					

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

Sample ID	RunNo: 75610	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-277	10/11/11 12:45	Radium 226 (Dissolved)	4.9	0.2	5.06		96.8	62.5 - 125	
		Radium 226 (Suspended)	4.9	0.2	5.06		96.8	56.4 - 132	

Sample ID	RunNo: 75818	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-278	10/11/11 16:13	Radium 226 (Dissolved)	4.8	0.2	5.06		95.1	62.5 - 125	

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

Sample ID	RunNo: 75610	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109408-001FMS	10/11/11 12:45	Radium 226 (Suspended)	5.4	0.2	5.06	ND	106	51.4 - 135	

Sample ID	RunNo: 75818	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109342-005DMS	10/11/11 16:13	Radium 226 (Dissolved)	5.2	0.2	5.06	ND	103	41.6 - 146	

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

Sample ID	RunNo: 75610	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109223-004EDUP	10/11/11 12:45	Radium 226 (Suspended)	ND	0.2	ND			20	

Sample ID	RunNo: 75818	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109342-004DDUP	10/11/11 16:13	Radium 226 (Dissolved)	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: S1109409
Project: Reno Creek Project

Date: 11/22/2011
Report ID: S1109409001

Thorium 230 in Water

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

Sample ID	RunNo: 76156	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-291	10/22/11 11:45	Thorium 230 (Dissolved)	ND	0.2					
		Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 76156	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-291	10/22/11 11:46	Thorium 230 (Dissolved)	12	0.2	12		93.3	67.1 - 134	
		Thorium 230 (Suspended)	12	0.2	12		93.3	69.2 - 127	

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

Sample ID	RunNo: 76156	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109408-001FDUP	10/22/11 11:46	Thorium 230 (Dissolved)	ND	0.2	ND			20	
		Thorium 230 (Suspended)	ND	0.2	ND			20	

Radon 222 by SM7500-RN

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

Sample ID	RunNo: 75588	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R75588	09/20/11 16:39	Radon-222	ND	100					L

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

Sample ID	RunNo: 75588	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R75588	09/20/11 16:39	Radon-222	300	100	306		99.3	70 - 130	L

Silica as SiO2

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

Sample ID	RunNo: 74949	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	09/22/11 11:55	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 74949	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	09/22/11 11:58	Silica as SiO2	2.1	0.1	2.14		98.3	85 - 115	

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1109409
Project: Reno Creek Project

Date: 11/22/2011
Report ID: S1109409001

Solids By SM 2540

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

Sample ID	RunNo: 75047	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	09/21/11 12:40	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 75047	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	09/21/11 12:45	Total Dissolved Solids (180)	210	10	226		94.7	90 - 110	

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

Sample ID	RunNo: 75047	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109400-003A	09/21/11 13:10	Total Dissolved Solids (180)	2360	10	2310	2.25		20	

Total (200.2) Metals by EPA 200.7 ICP - Water

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

Sample ID	RunNo: 75051	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-5492	09/26/11 14:50	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 75051	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-5492	09/26/11 14:52	Iron	0.51	0.05	0.5		103	85 - 115	
		Manganese	0.20	0.02	0.2		101	85 - 115	

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

Sample ID	RunNo: 75051	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109408-001ES	09/26/11 14:57	Iron	0.57	0.05	0.5	0.09	96.6	70 - 130	
		Manganese	0.20	0.02	0.2	ND	97.3	70 - 130	

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

Sample ID	RunNo: 75051	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109433-001ED	09/26/11 15:13	Iron	ND	0.05	ND			20	
		Manganese	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
S	Spike Recovery outside accepted recovery limits		



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1109409
Project: Reno Creek Project

Date: 11/22/2011
Report ID: S1109409001

Suspended Natural Uranium

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

Sample ID	RunNo: 75345	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	10/04/11 11:54	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 75345	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	10/04/11 11:50	Uranium Suspended	0.0984	0.0003	0.1		98.4	85 - 115	

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

Sample ID	RunNo: 75345	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109223-001ES	10/04/11 12:58	Uranium Suspended	1.08	0.0003	1.1	ND	98.6	70 - 130	

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

Sample ID	RunNo: 75345	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109223-001EMSD	10/04/11 13:02	Uranium Suspended	1.10	0.0003	1.08	1.36	99.9	20	

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

Sample ID	RunNo: 75345	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109223-001ED	10/04/11 12:54	Uranium Suspended	ND	0.0003	ND			20	

pH Water

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

Sample ID	RunNo: 75008	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/23/11 12:35	pH	8.7	0.1	8.48		103	90 - 110	

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

Sample ID	RunNo: 75008	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109382-001AD	09/23/11 17:26	pH	8.1	0.1	8.1	0.0203		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
 1873 Terra Ave
 Sheridan, WY 82801
 (307) 672-8945

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08337

- CHAIN OF CUSTODY RECORD -

Client Name AUC LLC		Report Address peavendor@auc-llc.com; trickerson@treccorp.com; jshriver@treccorp.com		Project Identification Reno Creek Project		Sampler (Signature/Printed) <i>Traci Wickerson</i>		Telephone #	
Invoice Address AUC LLC 900 W. 2nd St. Ste 150 Casper WY 82604		Contact Name <i>Traci Wickerson</i>		Email <i>trickerson@treccorp.com</i>		Phone <i>307-265-0696</i>		Purchase Order #	
LAB ID (Lab Use Only)		DATE SAMPLED		SAMPLE IDENTIFICATION		Matrix		# of Containers	
1		9/19/11		251109409-001		11:00		P2mb2002-110919 W	
2		9/19/11		251109409-001		11:00		P2mb2002-110919 W	
3		9/19/11		251109409-001		11:00		P2mb2002-110919 W	
4		9/19/11		251109409-001		11:00		P2mb2002-110919 W	
5		9/19/11		251109409-001		11:00		P2mb2002-110919 W	
6		9/19/11		251109409-001		11:00		P2mb2002-110919 W	
7		9/19/11		251109409-001		11:00		P2mb2002-110919 W	
8		9/19/11		251109409-001		11:00		P2mb2002-110919 W	
9		9/19/11		251109409-001		11:00		P2mb2002-110919 W	
10		9/19/11		251109409-001		11:00		P2mb2002-110919 W	
11		9/19/11		251109409-001		11:00		P2mb2002-110919 W	
12		9/19/11		251109409-001		11:00		P2mb2002-110919 W	
13		9/19/11		251109409-001		11:00		P2mb2002-110919 W	
14		9/19/11		251109409-001		11:00		P2mb2002-110919 W	
LAB COMMENTS Relinquished By (Signature/Printed) <i>Traci Wickerson</i>									
DATE TIME 9/20/11 7:00									
Received By (Signature/Printed) <i>Kathy Samp</i>									
DATE TIME 9/21/11 11:42									
SHIPPING INFO		MATRIX CODES		TURNAROUND TIMES		COMPLIANCE INFORMATION		ADDITIONAL REMARKS	
<input type="checkbox"/> UPS		Water		Check desired service		Compliance Monitoring?			
<input checked="" type="checkbox"/> Fed Express		Soil		<input checked="" type="checkbox"/> Standard turnaround		Program (SDWA, NPDES,...)			
<input type="checkbox"/> US Mail		Solid		<input type="checkbox"/> RUSH - 5 Working Days		PWSID / Permit #			
<input type="checkbox"/> Hand Carried		Trip Blank		<input type="checkbox"/> URGENT - < 2 Working Days		Chlorinated?			
<input type="checkbox"/> Other		Other		Rush & Urgent Surcharges will be applied		Sample Disposal: Lab		<input checked="" type="checkbox"/> Client	