



Tuesday, August 30, 2011

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

RE: Reno Creek Project
Orde

r No.: S1108043

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples PZM7-001-110728 on August 2, 2011.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Lacey Ketron
Project Manager

xc: File
Encl.



Date: 8/30/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1108043

CASE NARRATIVE
Report ID: S1108043001

Sample PZM7-001-110728 was received on August 2, 2011.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1998
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition
Methods indicated with the Monday, March 12, 2007 Federal Register, 40 CFR Part 122, 136 et al.

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

For the purposes of this report, the Reporting Limit (RL) is the Practical Quantitation Limit (PQL).

Radon 222 was analyzed through Energy Laboratories, Inc (ELI) NEHA Certification #: 101188 AL

Qualifiers by sample

MB-R73366 - General Parameters/Radon-222 - Analyzed by a contract laboratory
LCS-R73366 - General Parameters/Radon-222 - Analyzed by a contract laboratory
S1108043-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
S1108332-001 - Cations/Sodium - Spike Recovery outside accepted recovery limits (1)
S1107454-001 - Radiochemistry/Lead 210 (Dissolved) - RPD outside accepted recovery limits
S1108044-001 - Dissolved Metals/Nickel - Spike Recovery outside accepted recovery limits (1)

(1) Spike recovery outside acceptance criteria due to presence of analyte in the sample that greatly exceeded level of spike used. Data approved because all other QC were within acceptance 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: S1108043-001
ClientSample ID: PZM7-001-110728
COC: RC 08325

Date Reported 8/30/2011
Report ID S1108043001
WorkOrder: S1108043
CollectionDate: 7/28/2011 12:00:00 PM
DateReceived: 8/2/2011 10:38:00 AM
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
Lakewood, CO 80401

Date Reported 8/30/2011
Report ID S1108043001

ProjectName: Reno Creek Project
Lab ID: S1108043-001
ClientSample ID: PZM7-001-110728
COC: RC 08325

WorkOrder: S1108043
CollectionDate: 7/28/2011 12:00:00 PM
DateReceived: 8/2/2011 10:38:00 AM
FieldSampler: TN
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	71	mg/L		5	SM 2320B	8/13/2011 1:49:59 AM	AMB
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	8/13/2011 1:49:59 AM	AMB
Alkalinity, Carbonate as CO3	27	mg/L		5	SM 2320B	8/13/2011 1:49:59 AM	AMB
Chloride	3	mg/L		1	EPA 300.0	8/12/2011 4:58:00 PM	ARF
Fluoride	0.1	mg/L		0.1	SM 4500FC	8/3/2011 2:03:12 AM	AMB
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	8/3/2011 12:17:00 PM	LJK
Sulfate	345	mg/L		1	EPA 300.0	8/4/2011 3:44:00 PM	ARF
Calcium	66	mg/L		1	EPA 200.7	8/18/2011 5:05:27 PM	DG
Magnesium	ND	mg/L		1	EPA 200.7	8/18/2011 5:05:27 PM	DG
Potassium	32	mg/L		1	EPA 200.7	8/10/2011 4:13:32 PM	DG
Sodium	121	mg/L		1	EPA 200.7	8/10/2011 4:13:32 PM	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	8/15/2011 4:47:00 PM	MEL
Silica as SiO2	10	mg/L		1	EPA 200.7	8/3/2011 3:06:19 PM	RS
General Parameters							
pH	10.8	s.u.		0.1	SM 4500 H B	8/3/2011 2:03:12 AM	AMB
Electrical Conductivity	1100	µmhos/cm		5	SM 2510B	8/3/2011 2:03:12 AM	AMB
Total Dissolved Solids (180)	630	mg/L		10	SM 2540	8/2/2011 3:05:00 PM	JF
Data Quality							
Cation Sum	9.37	meq/L		0.01	SM 1030E	8/24/2011 11:43:20 AM	LJK
Anion Sum	8.86	meq/L		0.01	SM 1030E	8/24/2011 11:43:20 AM	LJK
Cation-Anion Balance (± 5%)	2.79	%		0.01	SM 1030E	8/24/2011 11:43:20 AM	LJK
Solids, Total Dissolved (Calc)	620	mg/L		10	SM 1030E	8/24/2011 11:43:20 AM	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.02	dec. %		0.01	Calculation	8/24/2011 11:56:09 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: S1108043-001
ClientSample ID: PZM7-001-110728
COC: RC 08325

Date Reported 8/30/2011
Report ID S1108043001
WorkOrder: S1108043
CollectionDate: 7/28/2011 12:00:00 PM
DateReceived: 8/2/2011 10:38:00 AM
FieldSampler: TN
Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Metals - Dissolved (Aluminum, Arsenic, Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Uranium, Vanadium, Zinc), Metals - Suspended (Uranium), and Metals - Total (Iron, Manganese).

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: S1108043-001
ClientSample ID: PZM7-001-110728
COC: RC 08325

Date Reported 8/30/2011
Report ID S1108043001
WorkOrder: S1108043
CollectionDate: 7/28/2011 12:00:00 PM
DateReceived: 8/2/2011 10:38:00 AM
FieldSampler: TN
Matrix: Water

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

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: S1108043
Project: Reno Creek Project

Date: 8/30/2011
Report ID: S1108043001

Alkalinity

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

Sample ID	RunNo: 73352	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/12/11 15:34	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 73352	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	08/12/11 15:26	Alkalinity, Total (As CaCO3)	591	5	601		98.4	90 - 110	

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

Sample ID	RunNo: 73352	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108226-002AD	08/12/11 17:39	Alkalinity, Bicarbonate as HCO3	62	5	62	0.159		20	
		Alkalinity, Carbonate as CO3	ND	5	ND			20	
		Alkalinity, Total (As CaCO3)	51	5	51	0.159		20	

Conductivity

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 72940	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/02/11 16:27	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 72940	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	08/02/11 16:17	Electrical Conductivity	1110	5	1120		98.7	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 72940	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108015-001AD	08/02/11 17:48	Electrical Conductivity	1830	5	1820	0.551		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: S1108043
Project: Reno Creek Project

Date: 8/30/2011
Report ID: S1108043001

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
S1108074-004C	08/05/11 11:01	Mercury	0.002	0.001	0.00244	ND	95.5	70 - 130	

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

Sample ID	RunNo: 73108	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108074-004C	08/05/11 11:03	Mercury	0.002	0.001	0.002	2.08	97.5	20	

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

Sample ID	RunNo: 73108	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108074-004C	08/05/11 10:59	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: S1108043
Project: Reno Creek Project

Date: 8/30/2011
Report ID: S1108043001

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

Sample ID	RunNo: 73019	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT/DISS MBLK	08/03/11 8:01	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: 73019	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	08/03/11 8:04	Aluminum	1.0	0.1	1		102	85 - 115	
		Boron	1.0	0.1	1		100	85 - 115	
		Chromium	1.00	0.01	1		100	85 - 115	
		Iron	1.03	0.05	1		103	85 - 115	
		Manganese	1.05	0.02	1		105	85 - 115	
		Nickel	1.05	0.01	1		105	85 - 115	
		Zinc	1.00	0.01	1		99.9	85 - 115	

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

Sample ID	RunNo: 73019	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108025-002BS	08/03/11 11:54	Aluminum	1.1	0.1	0.5	0.7	79.8	70 - 130	
		Boron	0.5	0.1	0.5	ND	82.8	70 - 130	
		Chromium	0.41	0.01	0.5	ND	81.7	70 - 130	
		Iron	0.57	0.05	0.5	0.15	83.8	70 - 130	
		Manganese	0.43	0.02	0.5	ND	85.6	70 - 130	
		Zinc	0.41	0.01	0.5	ND	80.1	70 - 130	

Sample ID	RunNo: 73019	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108044-001DS	08/03/11 15:13	Nickel	1.35	0.01	1	ND	135	70 - 130	S

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

Sample ID	RunNo: 73019	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108025-002BSD	08/03/11 11:56	Aluminum	1.1	0.1	1.1	0.822	78.1	20	
		Boron	0.5	0.1	0.5	2.39	85.0	20	
		Chromium	0.41	0.01	0.41	1.30	82.7	20	
		Iron	0.58	0.05	0.57	1.16	85.1	20	
		Manganese	0.44	0.02	0.43	1.91	87.3	20	
		Zinc	0.42	0.01	0.41	1.62	81.5	20	

Sample ID	RunNo: 73019	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108044-001DSD	08/03/11 15:16	Nickel	1.36	0.01	1.35	0.971	136	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: S1108043
Project: Reno Creek Project

Date: 8/30/2011
Report ID: S1108043001

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

Sample ID	RunNo: 73019	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108025-001BD	08/03/11 11:49	Aluminum	ND	0.1	ND			20	
		Boron	ND	0.1	ND			20	
		Chromium	ND	0.01	ND			20	
		Iron	ND	0.05	ND			20	
		Manganese	ND	0.02	ND			20	
		Zinc	ND	0.01	ND			20	

Sample ID	RunNo: 73019	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108043-001DD	08/03/11 15:08	Nickel	ND	0.01	ND			20	

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

Sample ID	RunNo: 72936	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	08/02/11 13:00	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: 72936	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	08/02/11 12:56	Arsenic	0.102	0.005	0.1		102	85 - 115	
		Barium	ND	0.5	0.1		98.2	85 - 115	
		Cadmium	0.098	0.002	0.1		97.6	85 - 115	
		Copper	0.10	0.01	0.1		100	85 - 115	
		Lead	0.10	0.02	0.1		101	85 - 115	
		Molybdenum	0.11	0.02	0.1		105	85 - 115	
		Selenium	0.102	0.005	0.1		102	85 - 115	
		Uranium	0.097	0.001	0.1		97.4	85 - 115	
		Vanadium	0.10	0.02	0.1		104	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: S1108043
Project: Reno Creek Project

Date: 8/30/2011
Report ID: S1108043001

Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 72936	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108033-003CS	08/02/11 14:04	Arsenic	1.14	0.005	1.1	ND	104	70 - 130	
		Barium	1.1	0.5	1.1	ND	93.4	70 - 130	
		Cadmium	1.08	0.002	1.1	ND	97.9	70 - 130	
		Copper	1.09	0.01	1.1	ND	98.9	70 - 130	
		Lead	1.05	0.02	1.1	ND	95.7	70 - 130	
		Molybdenum	1.16	0.02	1.1	ND	106	70 - 130	
		Selenium	1.11	0.005	1.1	ND	101	70 - 130	
		Uranium	1.07	0.001	1.1	ND	97.4	70 - 130	
		Vanadium	1.13	0.02	1.1	ND	103	70 - 130	

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

Sample ID	RunNo: 72936	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108033-003CMSD	08/02/11 14:08	Arsenic	1.14	0.005	1.14	0.351	104	20	
		Barium	1.1	0.5	1.1	2.47	95.9	20	
		Cadmium	1.06	0.002	1.08	1.20	96.7	20	
		Copper	1.09	0.01	1.09	0.0411	99.0	20	
		Lead	1.08	0.02	1.05	2.74	98.3	20	
		Molybdenum	1.12	0.02	1.16	3.86	101	20	
		Selenium	1.13	0.005	1.11	1.48	102	20	
		Uranium	1.07	0.001	1.07	0.593	96.8	20	
		Vanadium	1.17	0.02	1.13	3.82	107	20	

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

Sample ID	RunNo: 72936	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108033-003CD	08/02/11 14:00	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	0.005	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: S1108043
Project: Reno Creek Project

Date: 8/30/2011
Report ID: S1108043001

Fluoride by SM 4500

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

Sample ID	RunNo: 72940	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/02/11 16:27	Fluoride	ND	0.1					

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

Sample ID	RunNo: 72940	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	08/02/11 16:17	Fluoride	2.7	0.1	2.96		91.5	90 - 110	

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

Sample ID	RunNo: 72940	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108044-001ASPK	08/03/11 2:25	Fluoride	2.8	0.1	2.5	0.1	107	80 - 120	

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

Sample ID	RunNo: 72940	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108015-001AD	08/02/11 17:48	Fluoride	0.7	0.1	0.7	0.474		20	

Gross Alpha, Beta by SM 7110B

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

Sample ID	RunNo: 73328	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-220	08/10/11 10:47	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 73328	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-220	08/10/11 10:47	Gross Alpha (Dissolved)	85	2	73.6		116	83 - 133	
		Gross Beta (Dissolved)	142	3	126		113	88 - 115	

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

Sample ID	RunNo: 73328	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106511-003GMS	08/10/11 10:47	Gross Alpha (Dissolved)	194	2	147	22	117	48 - 153	
		Gross Beta (Dissolved)	286	3	252	8	110	60 - 140	

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

Sample ID	RunNo: 73328	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108042-001FDUP	08/10/11 10:47	Gross Alpha (Dissolved)	187	2	172	8.69		20	
		Gross Beta (Dissolved)	100	3	94	5.46		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: S1108043
Project: Reno Creek Project

Date: 8/30/2011
Report ID: S1108043001

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

Sample ID	RunNo: 73078	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/04/11 10:25	Chloride	ND	1					
		Sulfate	ND	1					

Sample ID	RunNo: 73356	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/12/11 12:03	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 73078	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	08/04/11 10:36	Chloride	31	1	30		103	90 - 110	
		Sulfate	144	1	150		95.9	90 - 110	

Sample ID	RunNo: 73356	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	08/12/11 12:17	Chloride	29	1	30		97.9	90 - 110	
		Sulfate	143	1	150		95.5	90 - 110	

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

Sample ID	RunNo: 73078	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108043-001ASPK	08/04/11 16:07	Chloride	48	1	55	2	83.3	80 - 120	
		Sulfate	755	1	440	345	93.2	80 - 120	

Sample ID	RunNo: 73356	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108127-005ASPK	08/12/11 18:45	Chloride	248	1	80	159	112	80 - 120	
		Sulfate	1270	1	640	532	115	80 - 120	

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

Sample ID	RunNo: 73078	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108043-001AD	08/04/11 15:55	Chloride	2	1	2	0.0706		20	
		Sulfate	341	1	345	1.06		20	

Sample ID	RunNo: 73356	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108127-005AD	08/12/11 18:32	Chloride	159	1	159	0.0787		20	
		Sulfate	531	1	532	0.0645		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: S1108043
Project: Reno Creek Project

Date: 8/30/2011
Report ID: S1108043001

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

Sample ID	RunNo: 73236	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	08/10/11 10:19	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

Sample ID	RunNo: 73540	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	08/18/11 13:56	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 73236	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	08/10/11 10:23	Calcium	40	1	40		99.5	85 - 115	
		Magnesium	40	1	40		100	85 - 115	
		Potassium	40	1	40		101	85 - 115	
		Sodium	40	1	40		99.9	85 - 115	

Sample ID	RunNo: 73540	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	08/18/11 14:01	Calcium	40	1	40		99.0	85 - 115	
		Magnesium	39	1	40		96.3	85 - 115	
		Potassium	40	1	40		98.7	85 - 115	
		Sodium	40	1	40		99.6	85 - 115	

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

Sample ID	RunNo: 73236	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108149-007AS	08/10/11 16:46	Calcium	27	1	25	1	103	70 - 130	
		Magnesium	26	1	25	ND	102	70 - 130	

Sample ID	RunNo: 73540	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108332-001AS	08/18/11 16:33	Calcium	112	1	50	68	87.7	70 - 130	
		Magnesium	77	1	50	29	96.6	70 - 130	
		Potassium	75	1	50	18	115	70 - 130	
		Sodium	317	1	50	286	61.8	70 - 130	S

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

Sample ID	RunNo: 73236	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108149-007ASD	08/10/11 16:48	Calcium	27	1	27	0.451	104	20	
		Magnesium	26	1	26	0.800	102	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: S1108043
Project: Reno Creek Project

Date: 8/30/2011
Report ID: S1108043001

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

Sample ID	RunNo: 73540	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108332-001ASD	08/18/11 16:35	Calcium	112	1	112	0.484	88.8	20	
		Magnesium	79	1	77	2.19	100	20	
		Potassium	75	1	75	0.550	114	20	
		Sodium	321	1	317	1.42	70.8	20	

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

Sample ID	RunNo: 73236	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108149-006AD	08/10/11 16:41	Calcium	3	1	3	0.816		20	
		Magnesium	ND	1	ND			20	

Sample ID	RunNo: 73540	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108313-005AD	08/18/11 16:28	Calcium	204	1	210	2.58		20	
		Magnesium	140	1	143	2.04		20	
		Potassium	19	1	19	3.53		20	
		Sodium	550	1	568	3.24		20	

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

Sample ID	RunNo: 73427	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/15/11 14:51	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 73427	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	08/15/11 14:53	Nitrogen, Ammonia (As N)	8.6	0.1	8.93		96.7	90 - 110	

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

Sample ID	RunNo: 73427	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108111-004B	08/15/11 16:53	Nitrogen, Ammonia (As N)	10.1	0.1	10	0.4	97.7	80 - 120	

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

Sample ID	RunNo: 73427	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108111-004B	08/15/11 16:52	Nitrogen, Ammonia (As N)	0.4	0.1	0.4	0.688		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: S1108043
Project: Reno Creek Project

Date: 8/30/2011
Report ID: S1108043001

Nitrogen, Nitrate-Nitrite (as N)

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

Sample ID	RunNo: 72990	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	08/03/11 9:49	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 72990	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	08/03/11 9:51	Nitrogen, Nitrate-Nitrite (as N)	9.9	0.1	10		99.0	90 - 110	

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

Sample ID	RunNo: 72990	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108044-001C	08/03/11 12:20	Nitrogen, Nitrate-Nitrite (as N)	9.2	0.1	10	ND	91.4	80 - 120	

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

Sample ID	RunNo: 72990	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108044-001C	08/03/11 12:19	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: S1108043
Project: Reno Creek Project

Date: 8/30/2011
Report ID: S1108043001

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
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

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
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

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
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

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
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

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
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

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
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

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
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

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
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

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
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

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
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

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
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

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
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

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: S1108043
Project: Reno Creek Project

Date: 8/30/2011
Report ID: S1108043001

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
-----------	--------------	---------	--------	----	----------	------	------	--------------	------

S1107454-001FDUP	08/16/11 11:09	Lead 210 (Dissolved)	1	1	3	59.9		20	R
------------------	----------------	----------------------	---	---	---	------	--	----	---

Sample ID	RunNo: 73549	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
-----------	--------------	---------	--------	----	----------	------	------	--------------	------

S1107454-001FDUP	08/15/11 17:07	Polonium 210 (Dissolved)	ND	1	ND			20	
------------------	----------------	--------------------------	----	---	----	--	--	----	--

Sample ID	RunNo: 73556	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
-----------	--------------	---------	--------	----	----------	------	------	--------------	------

S1107425-001FDUP	08/18/11 9:45	Lead 210 (Suspended)	ND	1	ND			20	
------------------	---------------	----------------------	----	---	----	--	--	----	--

Sample ID	RunNo: 73557	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
-----------	--------------	---------	--------	----	----------	------	------	--------------	------

S1107425-001FDUP	08/16/11 16:44	Polonium 210 (Suspended)	ND	1	ND			20	
------------------	----------------	--------------------------	----	---	----	--	--	----	--

Radium 228

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

Sample ID	RunNo: 73644	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

MB11-229	08/22/11 21:27	Radium 228 (Dissolved)	ND	1					
----------	----------------	------------------------	----	---	--	--	--	--	--

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

Sample ID	RunNo: 73644	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

LCS11-229	08/22/11 21:27	Radium 228 (Dissolved)	10	1	10.1		97.8	74.9 - 122	
-----------	----------------	------------------------	----	---	------	--	------	------------	--

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

Sample ID	RunNo: 73644	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

S1108288-001CMS	08/22/11 21:27	Radium 228 (Dissolved)	13	1	10.1	1	116	48.4 - 167	
-----------------	----------------	------------------------	----	---	------	---	-----	------------	--

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

Sample ID	RunNo: 73644	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
-----------	--------------	---------	--------	----	----------	------	------	--------------	------

S1108042-001FDUP	08/22/11 21:27	Radium 228 (Dissolved)	0.6 ± 0.8	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: S1108043
Project: Reno Creek Project

Date: 8/30/2011
Report ID: S1108043001

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

Sample ID	RunNo: 73400	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-220	08/14/11 16:06	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: 73400	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-220	08/14/11 16:06	Radium 226 (Dissolved)	4.7	0.2	5		93.6	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: 73400	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108043-001FMS	08/14/11 16:06	Radium 226 (Dissolved)	99.2	0.2	5	96.3	56.8	41.6 - 146	

Sample ID	RunNo: 73444	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107427-001FMS	08/15/11 17:13	Radium 226 (Suspended)	10.5	0.2	5	6.4	83.2	51.4 - 135	

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

Sample ID	RunNo: 73400	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107477-001BDUP	08/14/11 16:06	Radium 226 (Dissolved)	ND	0.2	ND			20	

Sample ID	RunNo: 73444	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107426-001FDUP	08/15/11 15:02	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: S1108043
Project: Reno Creek Project

Date: 8/30/2011
Report ID: S1108043001

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

Sample ID	RunNo: 73364	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-215	08/11/11 12:30	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: 73364	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-215	08/11/11 12:31	Thorium 230 (Dissolved)	12	0.2	12		98.8	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: 73364	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107508-001EDUP	08/11/11 12:31	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: 73366	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R73366	07/29/11 12:38	Radon-222	ND	100					L

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

Sample ID	RunNo: 73366	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R73366	07/29/11 12:38	Radon-222	529000	100	607000		87.1	70 - 130	L

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

Sample ID	RunNo: 73026	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT/DISS MBLK	08/03/11 8:01	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 73026	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	08/03/11 8:04	Silica as SiO2	2.2	0.1	2.14		103	85 - 115	

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

Sample ID	RunNo: 73026	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108043-001DD	08/03/11 15:08	Silica as SiO2	10.7	0.1	10.0	7.83		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: S1108043
Project: Reno Creek Project

Date: 8/30/2011
Report ID: S1108043001

Solids By SM 2540

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

Sample ID	RunNo: 73188	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	08/02/11 13:10	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 73188	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	08/02/11 13:15	Total Dissolved Solids (180)	220	10	226		95.6	90 - 110	

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

Sample ID	RunNo: 73188	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108012-001A	08/02/11 14:10	Total Dissolved Solids (180)	1740	10	1730	0.694		20	

Total (200.2) Metals by EPA 200.7 ICP - Water

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

Sample ID	RunNo: 73173	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-5360	08/08/11 15:20	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 73173	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-5360	08/08/11 15:22	Iron	0.48	0.05	0.5		95.4	85 - 115	
		Manganese	0.19	0.02	0.2		96.9	85 - 115	

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

Sample ID	RunNo: 73173	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108082-003CD	08/08/11 16:36	Iron	26.9	0.05	25.5	5.50		20	
		Manganese	2.14	0.02	2.02	5.97		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: S1108043
Project: Reno Creek Project

Date: 8/30/2011
Report ID: S1108043001

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
S1108044-001FS	08/09/11 15:18	Uranium Suspended	1.09	0.0003	1.1	0.0008	99.4	70 - 130	

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

Sample ID	RunNo: 73195	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108044-001FD	08/09/11 15:14	Uranium Suspended	0.0007	0.0003	0.0008	13.0		20	

pH Water

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

Sample ID	RunNo: 72940	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	08/02/11 16:17	pH	8.6	0.1	8.48		102	90 - 110	

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

Sample ID	RunNo: 72940	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108015-001AD	08/02/11 17:48	pH	8.5	0.1	8.6	0.316		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) 672-8945 (307) 682-4945

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08325

- 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>Tracee Nickerson</i>		Telephone #								
Invoice Address AUC LLC 900 W. Main St. Ste 150 Casper WY 82401		Contact Name <i>Tracee Nickerson</i>		Email mickerson@treccorp.com		Phone 307-265-0696		Purchase Order #								
Sample Identification		Matrix		# of Containers		ANALYSES & PARAMETERS		REMARKS								
ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	IDENTIFICATION	Matrix	# of Containers	See Attached Table 1 (4.14, Guide 8, Radon 222)	See Attached Table 2 (Air Particulate)	See Attached Table 3 (Vegetation)	See Attached Table 4 (Sediment)	See Attached Table 5 (Soil)	See Attached Table 8 WYPDES Discharge	See Attached Table 9 (Blanks)			
1																
2	S1108043-01	7/28/11	12:00	P2M7-001-110728	W	10	X									
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
LAB COMMENTS		Relinquished By (Signature/Printed)		DATE		TIME		Received By (Signature/Printed)		DATE		TIME				
		<i>Tracee Nickerson</i>		7/28/11		12:00		<i>Kathy Boy</i>		10:30						
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 checked="" type="checkbox"/> Hand Carried <input type="checkbox"/> Other _____		Water <input type="checkbox"/> WT Soil <input type="checkbox"/> SL Solid <input type="checkbox"/> SD Trip Blank <input type="checkbox"/> TB Other <input type="checkbox"/> 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		Compliance Monitoring? Program (SDWA, NPDES,...) PWSID / Permit # Chlorinated? Sample Disposal: Lab <input checked="" type="checkbox"/> Client <input type="checkbox"/>		<input type="checkbox"/> Y / <input checked="" type="checkbox"/> N <input type="checkbox"/> Y / <input checked="" type="checkbox"/> N								