



Thursday, October 13, 2011

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

RE: Reno Creek Project
Orde

r No.: S1108609

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples PZM16-003-110831 on August 31, 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: S1108609

CASE NARRATIVE
Report ID: S1108609001

Sample PZM16-003-110831 was received on August 31, 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-R74716 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- LCS-R74716 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- S1108609-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- S1108609-001 - General Parameters/Radon-222 - RPD outside accepted recovery limits
- S1108609-001 - General Parameters/Total Dissolved Solids (180) - Holding times for preparation or analysis exceeded (1)

(1) Total Dissolved Solids was received and analyzed within holding. Reanalyzed for Calculated TDS/TDS Ratio and TDS/EC Ratio purposes at a later date.

(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: S1108609-001
ClientSample ID: PZM16-003-110831
COC: RC 08368

Date Reported 10/13/2011
Report ID S1108609001
WorkOrder: S1108609
CollectionDate: 8/31/2011 10:00:00 AM
DateReceived: 8/31/2011 3:58:00 PM
FieldSampler: TN
Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Contains 25 rows of field data including pH, Conductivity, Turbidity, Dissolved Oxygen, Temperature, and Water Level readings.

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: S1108609-001
ClientSample ID: PZM16-003-110831
COC: RC 08368

Date Reported: 10/13/2011
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WorkOrder: S1108609
CollectionDate: 8/31/2011 10:00:00 AM
DateReceived: 8/31/2011 3:58:00 PM
FieldSampler: TN
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	191	mg/L		5	SM 2320B	9/1/2011 6:19:24 PM	AMB
Alkalinity, Bicarbonate as HCO3	234	mg/L		5	SM 2320B	9/1/2011 6:19:24 PM	AMB
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	9/1/2011 6:19:24 PM	AMB
Chloride	3	mg/L		1	EPA 300.0	9/15/2011 3:23:00 AM	ARF
Fluoride	ND	mg/L		0.1	SM 4500FC	9/1/2011 6:19:24 PM	AMB
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	9/16/2011 5:52:00 PM	MEL
Sulfate	469	mg/L		1	EPA 300.0	9/12/2011 10:28:00 PM	ARF
Calcium	110	mg/L		1	EPA 200.7	9/14/2011 11:47:43 AM	DG
Magnesium	25	mg/L		1	EPA 200.7	9/2/2011 3:48:04 PM	DG
Potassium	9	mg/L		1	EPA 200.7	9/14/2011 11:47:43 AM	DG
Sodium	172	mg/L		1	EPA 200.7	9/14/2011 11:47:43 AM	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	9/16/2011 3:22:00 PM	MEL
Silica as SiO2	11	mg/L		1	EPA 200.7	9/2/2011 3:48:04 PM	DG
General Parameters							
pH	8.1	s.u.		0.1	SM 4500 H B	9/1/2011 6:19:24 PM	AMB
Electrical Conductivity	1390	µmhos/cm		5	SM 2510B	9/1/2011 6:19:24 PM	AMB
Total Dissolved Solids (180)	1000	mg/L	H	10	SM 2540	9/14/2011 11:25:00 AM	TH
Data Quality							
Cation Sum	15.25	meq/L		0.01	SM 1030E	9/20/2011 10:28:44 AM	LJK
Anion Sum	13.87	meq/L		0.01	SM 1030E	9/20/2011 10:28:44 AM	LJK
Cation-Anion Balance (± 5%)	4.72	%		0.01	SM 1030E	9/20/2011 10:28:44 AM	LJK
Solids, Total Dissolved (Calc)	910	mg/L		10	SM 1030E	9/20/2011 10:28:44 AM	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.10	dec. %		0.01	Calculation	9/20/2011 10:57:49 AM	LJK

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- 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: S1108609-001
ClientSample ID: PZM16-003-110831
COC: RC 08368

Date Reported 10/13/2011
Report ID S1108609001
WorkOrder: S1108609
CollectionDate: 8/31/2011 10:00:00 AM
DateReceived: 8/31/2011 3:58:00 PM
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.

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



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401
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Lab ID: S1108609-001
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Report ID S1108609001
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CollectionDate: 8/31/2011 10:00:00 AM
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FieldSampler: TN
Matrix: Water

Table with columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Dissolved (Gross Alpha, Lead 210, etc.), Radionuclides - Suspended (Lead 210, Polonium 210, etc.), and Radionuclides - Total (Radon 222).

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108609
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108609001

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:**
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 - S Spike Recovery outside accepted recovery limits
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108609
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108609001

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
S1108600-004C	09/07/11 9:06	Mercury	0.002	0.001	0.00244	ND	87.1	70 - 130	

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

Sample ID	RunNo: 74230	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108600-004C	09/07/11 9:08	Mercury	0.002	0.001	0.002	1.30	85.9	20	

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

Sample ID	RunNo: 74230	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108600-004C	09/07/11 9:04	Mercury	ND	0.001	ND			20	

- Qualifiers:**
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 - S Spike Recovery outside accepted recovery limits
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1108609
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108609001

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

Sample ID	RunNo: 74109	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	09/02/11 14:02	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: 74109	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	09/02/11 14:04	Aluminum	1.0	0.1	1		104	85 - 115	
		Boron	1.0	0.1	1		102	85 - 115	
		Chromium	1.03	0.01	1		103	85 - 115	
		Iron	1.04	0.05	1		104	85 - 115	
		Manganese	1.06	0.02	1		106	85 - 115	
		Nickel	1.05	0.01	1		105	85 - 115	
		Zinc	1.06	0.01	1		106	85 - 115	

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

Sample ID	RunNo: 74109	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109004-003ES	09/02/11 16:06	Aluminum	0.6	0.1	0.5	ND	111	70 - 130	
		Boron	0.6	0.1	0.5	ND	110	70 - 130	
		Chromium	0.55	0.01	0.5	ND	110	70 - 130	
		Iron	0.56	0.05	0.5	ND	108	70 - 130	
		Manganese	0.55	0.02	0.5	ND	110	70 - 130	
		Nickel	0.54	0.01	0.5	ND	108	70 - 130	
		Zinc	0.56	0.01	0.5	ND	111	70 - 130	

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

Sample ID	RunNo: 74109	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109004-003ESD	09/02/11 16:08	Aluminum	0.6	0.1	0.6	3.17	114	20	
		Boron	0.6	0.1	0.6	3.30	114	20	
		Chromium	0.57	0.01	0.55	3.04	113	20	
		Iron	0.57	0.05	0.56	2.54	111	20	
		Manganese	0.57	0.02	0.55	2.86	113	20	
		Nickel	0.55	0.01	0.54	3.11	111	20	
		Zinc	0.57	0.01	0.56	2.59	114	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: S1108609
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108609001

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 74109	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109009-003CD	09/02/11 16:32	Aluminum	ND	0.1	ND			20	
		Boron	0.2	0.1	0.2	2.04		20	
		Chromium	ND	0.01	ND			20	
		Iron	ND	0.05	ND			20	
		Manganese	0.05	0.02	0.05	2.33		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: 74051	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	09/01/11 13:35	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: 74051	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	09/01/11 13:31	Arsenic	0.103	0.005	0.1		103	85 - 115	
		Barium	ND	0.5	0.1		98.7	85 - 115	
		Cadmium	0.098	0.002	0.1		98.0	85 - 115	
		Copper	0.10	0.01	0.1		98.0	85 - 115	
		Lead	0.10	0.02	0.1		97.2	85 - 115	
		Molybdenum	0.10	0.02	0.1		101	85 - 115	
		Selenium	0.100	0.005	0.1		100	85 - 115	
		Uranium	0.096	0.001	0.1		96.1	85 - 115	
		Vanadium	0.09	0.02	0.1		94.0	85 - 115	

- Qualifiers:**
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 - 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: S1108609
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108609001

Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 74051	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108609-001DS	09/01/11 15:39	Arsenic	1.17	0.005	1.1	ND	106	70 - 130	
		Barium	1.2	0.5	1.1	ND	102	70 - 130	
		Cadmium	1.12	0.002	1.1	ND	102	70 - 130	
		Copper	1.09	0.01	1.1	ND	99.3	70 - 130	
		Lead	1.08	0.02	1.1	ND	98.1	70 - 130	
		Molybdenum	1.20	0.02	1.1	ND	109	70 - 130	
		Selenium	1.12	0.005	1.1	ND	102	70 - 130	
		Uranium	1.43	0.001	1.1	0.338	99.1	70 - 130	
		Vanadium	1.09	0.02	1.1	ND	98.6	70 - 130	

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

Sample ID	RunNo: 74051	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108609-001DMSD	09/01/11 15:43	Arsenic	1.17	0.005	1.17	0.262	106	20	
		Barium	1.2	0.5	1.2	0.627	103	20	
		Cadmium	1.13	0.002	1.12	1.00	103	20	
		Copper	1.09	0.01	1.09	0.00769	99.3	20	
		Lead	1.07	0.02	1.08	0.661	97.5	20	
		Molybdenum	1.19	0.02	1.20	0.732	108	20	
		Selenium	1.11	0.005	1.12	0.391	101	20	
		Uranium	1.44	0.001	1.43	1.02	100	20	
		Vanadium	1.07	0.02	1.09	1.12	97.5	20	

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

Sample ID	RunNo: 74051	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108609-001DD	09/01/11 15:35	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	0.339	0.001	0.338	0.277		20	
		Vanadium	ND	0.02	ND			20	

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ANALYTICAL QC SUMMARY REPORT

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Work Order: S1108609
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108609001

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	

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 - S Spike Recovery outside accepted recovery limits
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1108609
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108609001

Anions by ION ChromatographySample 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 ID	RunNo: 74576	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/14/11 10:50	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 ID	RunNo: 74576	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	09/14/11 11:03	Chloride	31	1	30		102	90 - 110	
		Sulfate	144	1	150		96.3	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 ID	RunNo: 74576	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109156-001ASPK	09/15/11 5:19	Chloride	111	1	130	5	81.5	80 - 120	
		Sulfate	1380	1	1040	473	86.9	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	

Sample ID	RunNo: 74576	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109156-001A	09/15/11 5:06	Chloride	5	1	5	1.32		20	
		Sulfate	476	1	473	0.652		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: S1108609
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108609001

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

Sample ID	RunNo: 74108	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	09/02/11 14:02	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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: 74108	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	09/02/11 14:06	Calcium	40	1	40		100	85 - 115	
		Magnesium	39	1	40		98.5	85 - 115	
		Potassium	40	1	40		99.0	85 - 115	
		Sodium	39	1	40		96.8	85 - 115	

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: 74108	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109004-003BS	09/02/11 16:06	Calcium	104	1	50	55	98.5	70 - 130	
		Magnesium	59	1	50	5	109	70 - 130	
		Potassium	67	1	50	16	103	70 - 130	
		Sodium	85	1	50	28	113	70 - 130	

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	

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: S1108609
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108609001

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

Sample ID	RunNo: 74108	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109004-003BSD	09/02/11 16:08	Calcium	105	1	104	1.34	101	20	
		Magnesium	61	1	59	2.32	111	20	
		Potassium	68	1	67	1.85	105	20	
		Sodium	86	1	85	1.60	116	20	

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: 74108	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109004-002BD	09/02/11 16:01	Calcium	61	1	60	1.51		20	
		Magnesium	4	1	3	1.61		20	
		Potassium	9	1	9	2.80		20	
		Sodium	29	1	29	1.89		20	

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	

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
S1109250-001B	09/16/11 15:27	Nitrogen, Ammonia (As N)	ND	0.1	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: S1108609
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108609001

Nitrogen, Nitrate-Nitrite (as N)

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

Sample ID	RunNo: 74695	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	09/16/11 17:21	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 74695	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	09/16/11 17:23	Nitrogen, Nitrate-Nitrite (as N)	2.4	0.1	2.31		105	90 - 110	

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

Sample ID	RunNo: 74695	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108609-001C	09/16/11 17:54	Nitrogen, Nitrate-Nitrite (as N)	9.8	0.1	10	ND	98.4	80 - 120	

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

Sample ID	RunNo: 74695	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108609-001C	09/16/11 17:53	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: S1108609
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108609001

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

Sample ID	RunNo: 75405	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-269	10/04/11 15:52	Lead 210 (Suspended)	ND	1					
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Sample ID	RunNo: 75406	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-269	10/04/11 12:15	Polonium 210 (Suspended)	ND	1					
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Sample ID	RunNo: 75583	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-272	10/10/11 15:29	Lead 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 75584	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-272	10/10/11 12:50	Polonium 210 (Dissolved)	ND	1					
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Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 75405	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-269	10/04/11 15:52	Lead 210 (Suspended)	14	1	12.9		108	60.3 - 141	
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Sample ID	RunNo: 75406	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-269 PO	10/04/11 12:15	Polonium 210 (Suspended)	3	1	2.49		138	48.6 - 156	
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Sample ID	RunNo: 75583	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-272	10/10/11 15:29	Lead 210 (Dissolved)	15	1	12.9		113	67.6 - 131	
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Sample ID	RunNo: 75584	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-272	10/10/11 12:50	Polonium 210 (Dissolved)	11	1	12.9		81.0	35.1 - 175	
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Sample Type **MS** Units: pCi/L

Sample ID	RunNo: 75405	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108364-004EMS	10/04/11 15:52	Lead 210 (Suspended)	14	1	12.9	1	94.0	62.4 - 132	
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Sample ID	RunNo: 75406	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108364-004EMS	10/04/11 12:15	Polonium 210 (Suspended)	11	1	12.9	ND	81.3	28 - 173	
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Sample ID	RunNo: 75583	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108611-001FMS	10/10/11 15:29	Lead 210 (Dissolved)	20	1	12.9	6	103	66 - 133	
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Sample ID	RunNo: 75584	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108611-001FMS	10/10/11 12:50	Polonium 210 (Dissolved)	9	1	12.9	ND	71.4	20.9 - 160	
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Qualifiers:

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108609
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108609001

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: S1108609
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108609001

Radium 226 by SM 7500

Sample 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
 - 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: S1108609
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108609001

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: 74716	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R74716	09/01/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 74716	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R74716	09/01/11 0:00	Radon-222	22900	100	22500		102	75 - 125	L

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

Sample ID	RunNo: 74716	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108609-001A	09/01/11 0:00	Radon-222	60	50	90	32.6		20	LR

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: S1108609
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108609001

Silica as SiO2

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

Sample ID	RunNo: 74111	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	09/02/11 14:02	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 74111	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	09/02/11 14:04	Silica as SiO2	2.1	0.1	2.14		99.9	85 - 115	

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

Sample ID	RunNo: 74111	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109004-002ED	09/02/11 16:01	Silica as SiO2	60.6	0.1	59.2	2.34		20	

Solids By SM 2540

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

Sample ID	RunNo: 74617	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	09/14/11 11:10	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 74617	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	09/14/11 11:15	Total Dissolved Solids (180)	230	10	226		101	90 - 110	

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

Sample ID	RunNo: 74617	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109249-001A	09/17/11 11:00	Total Dissolved Solids (180)	2750	10	2770	0.722		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: S1108609
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108609001

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

Sample ID	RunNo: 74237	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-5430	09/07/11 14:23	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 74237	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-5430	09/07/11 14:26	Iron	0.50	0.05	0.5		99.2	85 - 115	
		Manganese	0.20	0.02	0.2		100	85 - 115	

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

Sample ID	RunNo: 74237	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109050-006ES	09/07/11 15:57	Iron	0.56	0.05	0.5	0.12	89.1	70 - 130	
		Manganese	0.22	0.02	0.2	0.03	94.9	70 - 130	

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

Sample ID	RunNo: 74237	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109052-004ED	09/07/11 16:28	Iron	0.40	0.05	0.40	0.175		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: S1108609
Project: Reno Creek Project

Date: 10/13/2011
Report ID: S1108609001

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) 672-8945

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08368

- CHAIN OF CUSTODY RECORD -

Client Name AUC LLC		Project Identification Reno Creek Project		Sampler (Signature/Printed) <i>Tracee Wilkerson</i>		Telephone #	
Report Address peavendor@auc-llc.com; trickerson@treccorp.com; jshriver@treccorp.com		Contact Name <i>Tracee Wilkerson</i>		ANALYSES / PARAMETERS			
Invoice Address AUC LLC <i>900 Circum Ct. Ste 150</i> <i>Casper WY 82404</i>		Email <i>trickerson@treccorp.com</i>		See Attached Table 1 (4,14, Guide 8, Radon 222)			
		Phone <i>307-265-0696</i>		See Attached Table 2 (Air Particulate)			
		Purchase Order #		See Attached Table 3 (Vegetation)			
		Quote #		See Attached Table 4 (Sediment)			
ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	REMARKS
1							
2	<i>11081009</i>	<i>8/31/11</i>	<i>10:00</i>	<i>P2MW6-003-110831</i>	<i>W</i>	<i>13</i>	<i>X</i>
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
LAB COMMENTS				Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)
<i>18.6</i>				<i>Tracee Wilkerson</i>	<i>1530</i>		<i>John Davis</i>
							<i>8/31/11 1558</i>
							<i>9.1.1 11:06</i>
SHIPPING INFO		MATRIX CODES		TURNAROUND TIMES		COMPLIANCE INFORMATION	
<input type="checkbox"/> UPS <input type="checkbox"/> Fed Express <input type="checkbox"/> US Mail <input type="checkbox"/> Hand Carried <input type="checkbox"/> Other _____		<input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Tip Blank <input type="checkbox"/> Other _____		<input type="checkbox"/> Check desired service <input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH - 5 Working Days <input type="checkbox"/> URGENT - < 2 Working Days Rush & Urgent Surcharges will be applied		<input type="checkbox"/> Compliance Monitoring? Program (SDWA, NPDES,...) PWSID / Permit # _____ Chlorinated? _____ Sample Disposal: Lab <input checked="" type="checkbox"/> Client <input type="checkbox"/>	
WT		SL		SD		TB	
OT							
ADDITIONAL REMARKS							