



Thursday, December 01, 2011

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

RE: Reno Creek Project
Orde

r No.: S1110248

Dear Phil Cavendor:

Inter-Mountain Laboratories received sample OM6-004-111018 on October 18, 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: 12/1/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1110248

CASE NARRATIVE
Report ID: S1110248001

Sample OM6-004-111018 was received on October 18, 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.

Per ALS two of the voa vials for OM6-004-111018 arrived with headspace < pea size.

Qualifiers by sample

S1110216-007 - Radiochemistry/Lead 210 (Dissolved) - RPD outside accepted recovery limits
S1110248-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
LCS-R76356 - General Parameters/Radon-222 - Analyzed by a contract laboratory
MB-R76356 - General Parameters/Radon-222 - Analyzed by a contract laboratory

Reviewed by:

Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported 12/1/2011
Report ID S1110248001

ProjectName: Reno Creek Project
Lab ID: S1110248-001
ClientSample ID: OM6-004-111018
COC: RC 08378

WorkOrder: S1110248
CollectionDate: 10/18/2011 12:15:00 PM
DateReceived: 10/18/2011 4:33:00 PM
FieldSampler: TN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Field

pH Reading 1	7.77	s.u.			Field	10/18/2011 12:15:00 PM
pH Reading 2	7.75	s.u.			Field	10/18/2011 12:15:00 PM
pH Reading 3	7.74	s.u.			Field	10/18/2011 12:15:00 PM
Conductivity Reading 1	1356	µmhos/cm			Field	10/18/2011 12:15:00 PM
Conductivity Reading 2	1368	µmhos/cm			Field	10/18/2011 12:15:00 PM
Conductivity Reading 3	1365	µmhos/cm			Field	10/18/2011 12:15:00 PM
Turbidity Reading 1	2.8	NTU			Field	10/18/2011 12:15:00 PM
Turbidity Reading 2	1.9	NTU			Field	10/18/2011 12:15:00 PM
Turbidity Reading 3	1.9	NTU			Field	10/18/2011 12:15:00 PM
Dissolved Oxygen Reading 1	3.16	mg/L			Field	10/18/2011 12:15:00 PM
Dissolved Oxygen Reading 2	3.15	mg/L			Field	10/18/2011 12:15:00 PM
Dissolved Oxygen Reading 3	3.14	mg/L			Field	10/18/2011 12:15:00 PM
Temperature Reading 1	10.62	°C			Field	10/18/2011 12:15:00 PM
Temperature Reading 2	10.57	°C			Field	10/18/2011 12:15:00 PM
Temperature Reading 3	10.56	°C			Field	10/18/2011 12:15:00 PM
Oxygen Reduction Potential Reading	-175.6	mV			Field	10/18/2011 12:15:00 PM
Oxygen Reduction Potential Reading	-164.5	mV			Field	10/18/2011 12:15:00 PM
Oxygen Reduction Potential Reading	-158.2	mV			Field	10/18/2011 12:15:00 PM
Purge Rate Reading 1	450	ml/min			Field	10/18/2011 12:15:00 PM
Purge Rate Reading 2	450	ml/min			Field	10/18/2011 12:15:00 PM
Purge Rate Reading 3	450	ml/min			Field	10/18/2011 12:15:00 PM
Water Level Reading 1	121.40	Ft			Field	10/18/2011 12:15:00 PM
Water Level Reading 2	121.60	Ft			Field	10/18/2011 12:15:00 PM
Water Level Reading 3	121.75	Ft			Field	10/18/2011 12:15:00 PM

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: S1110248-001
ClientSample ID: OM6-004-111018
COC: RC 08378

Date Reported 12/1/2011
Report ID S1110248001
WorkOrder: S1110248
CollectionDate: 10/18/2011 12:15:00 PM
DateReceived: 10/18/2011 4:33:00 PM
FieldSampler: TN
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Chloride, etc.), General Parameters (pH, Conductivity), and Data Quality (Cation Sum, Anion Sum, etc.).

These results apply only to the samples tested.

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: S1110248-001
ClientSample ID: OM6-004-111018
COC: RC 08378

Date Reported 12/1/2011
Report ID S1110248001
WorkOrder: S1110248
CollectionDate: 10/18/2011 12:15:00 PM
DateReceived: 10/18/2011 4:33:00 PM
FieldSampler: TN
Matrix: Water

Comments

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) and 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

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E Value above quantitation range
J Analyte detected below quantitation limits
M Value exceeds Monthly Ave or MCL
O Outside the Range of Dilutions

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



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401
ProjectName: Reno Creek Project
Lab ID: S1110248-001
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WorkOrder: S1110248
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DateReceived: 10/18/2011 4:33:00 PM
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: S1110248
Project: Reno Creek Project

Date: 12/1/2011
Report ID: S1110248001

Alkalinity

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

Sample ID	RunNo: 76040	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	10/21/11 14:57	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 76040	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	10/21/11 14:45	Alkalinity, Total (As CaCO3)	593	5	601		98.7	90 - 110	

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

Sample ID	RunNo: 76040	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110290-002A	10/21/11 16:55	Alkalinity, Bicarbonate as HCO3	2830	5	2830	0.286		20	
		Alkalinity, Carbonate as CO3	79	5	73	8.34		20	
		Alkalinity, Total (As CaCO3)	2450	5	2440	0.142		20	

Conductivity

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 76040	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	10/21/11 14:57	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 76040	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	10/21/11 14:45	Electrical Conductivity	1100	5	1120		97.6	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 76040	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110290-002A	10/21/11 16:55	Electrical Conductivity	4210	5	4200	0.238		20	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
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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: S1110248
Project: Reno Creek Project

Date: 12/1/2011
Report ID: S1110248001

Dissolved Mercury by EPA 245.1 - Water

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

Sample ID	RunNo: 76013	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	10/21/11 8:25	Mercury	ND	0.001					

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

Sample ID	RunNo: 76013	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	10/21/11 8:24	Mercury	0.002	0.001	0.002		98.1	85 - 115	

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

Sample ID	RunNo: 76013	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110248-001D	10/21/11 9:41	Mercury	0.002	0.001	0.00244	ND	85.5	70 - 130	

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

Sample ID	RunNo: 76013	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1110248-001D	10/21/11 9:43	Mercury	0.002	0.001	0.002	2.03	83.8	20	

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

Sample ID	RunNo: 76013	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110248-001D	10/21/11 9:39	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: S1110248
Project: Reno Creek Project

Date: 12/1/2011
Report ID: S1110248001

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

Sample ID	RunNo: 75935	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	10/19/11 11:19	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: 75935	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	10/19/11 11:21	Aluminum	1.0	0.1	1		100	85 - 115	
		Boron	1.0	0.1	1		97.3	85 - 115	
		Chromium	0.99	0.01	1		99.3	85 - 115	
		Iron	1.00	0.05	1		99.9	85 - 115	
		Manganese	1.03	0.02	1		103	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: 75935	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110253-001CS	10/19/11 16:09	Aluminum	0.5	0.1	0.5	ND	106	70 - 130	
		Boron	0.5	0.1	0.5	ND	101	70 - 130	
		Chromium	0.53	0.01	0.5	ND	105	70 - 130	
		Iron	0.52	0.05	0.5	ND	104	70 - 130	
		Manganese	0.51	0.02	0.5	ND	103	70 - 130	
		Nickel	0.52	0.01	0.5	ND	103	70 - 130	
		Zinc	0.53	0.01	0.5	ND	105	70 - 130	

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

Sample ID	RunNo: 75935	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1110253-001CSD	10/19/11 16:11	Aluminum	0.5	0.1	0.5	5.34	101	20	
		Boron	0.5	0.1	0.5	3.73	97.7	20	
		Chromium	0.51	0.01	0.53	3.28	102	20	
		Iron	0.50	0.05	0.52	4.10	99.6	20	
		Manganese	0.49	0.02	0.51	4.02	98.5	20	
		Nickel	0.50	0.01	0.52	3.39	99.8	20	
		Zinc	0.50	0.01	0.53	4.21	101	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: S1110248
Project: Reno Creek Project

Date: 12/1/2011
Report ID: S1110248001

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 75935	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110251-001DD	10/19/11 16:04	Aluminum	ND	0.1	ND			20	
		Boron	ND	0.1	ND			20	
		Chromium	ND	0.01	ND			20	
		Iron	0.44	0.05	0.43	1.27		20	
		Manganese	0.28	0.02	0.28	1.18		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: 75930	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	10/19/11 14:00	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: 75930	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	10/19/11 13:56	Arsenic	0.100	0.005	0.1		99.7	85 - 115	
		Barium	ND	0.5	0.1		99.2	85 - 115	
		Cadmium	0.100	0.002	0.1		99.6	85 - 115	
		Copper	0.10	0.01	0.1		98.6	85 - 115	
		Lead	0.10	0.02	0.1		95.1	85 - 115	
		Molybdenum	0.10	0.02	0.1		98.8	85 - 115	
		Selenium	0.101	0.005	0.1		101	85 - 115	
		Uranium	0.093	0.001	0.1		93.1	85 - 115	
		Vanadium	0.10	0.02	0.1		102	85 - 115	

- Qualifiers:**
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 - 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: S1110248
Project: Reno Creek Project

Date: 12/1/2011
Report ID: S1110248001

Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 75930	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110246-001DS	10/19/11 14:16	Arsenic	1.15	0.005	1.1	0.007	104	70 - 130	
		Barium	1.1	0.5	1.1	ND	99.2	70 - 130	
		Cadmium	1.07	0.002	1.1	ND	97.7	70 - 130	
		Copper	1.07	0.01	1.1	ND	96.8	70 - 130	
		Lead	1.00	0.02	1.1	ND	90.9	70 - 130	
		Molybdenum	1.11	0.02	1.1	ND	101	70 - 130	
		Selenium	1.15	0.005	1.1	ND	105	70 - 130	
		Uranium	1.02	0.001	1.1	ND	92.5	70 - 130	
		Vanadium	1.09	0.02	1.1	ND	99.4	70 - 130	

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

Sample ID	RunNo: 75930	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1110246-001DMSD	10/19/11 14:20	Arsenic	1.15	0.005	1.15	0.400	104	20	
		Barium	1.2	0.5	1.1	1.20	100	20	
		Cadmium	1.08	0.002	1.07	0.970	98.6	20	
		Copper	1.07	0.01	1.07	0.543	97.3	20	
		Lead	1.00	0.02	1.00	0.496	90.5	20	
		Molybdenum	1.10	0.02	1.11	0.277	100	20	
		Selenium	1.16	0.005	1.15	0.368	105	20	
		Uranium	1.02	0.001	1.02	0.286	92.2	20	
		Vanadium	1.07	0.02	1.09	1.81	97.6	20	

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

Sample ID	RunNo: 75930	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110246-001DD	10/19/11 14:12	Arsenic	0.007	0.005	0.007	1.82		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
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 - 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: S1110248
Project: Reno Creek Project

Date: 12/1/2011
Report ID: S1110248001

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

Sample ID	RunNo: 76040	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	10/21/11 14:57	Fluoride	0.1	0.1					

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

Sample ID	RunNo: 76040	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	10/21/11 14:45	Fluoride	2.9	0.1	2.96		99.2	90 - 110	

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

Sample ID	RunNo: 76040	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110250-001ASPK	10/22/11 0:43	Fluoride	3.2	0.1	2.5	0.4	111	80 - 120	

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

Sample ID	RunNo: 76040	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110290-002A	10/21/11 16:55	Fluoride	2.0	0.1	2.0	0.787		20	

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

Sample ID	RunNo: 76852	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-313	11/10/11 19:51	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 76852	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-313	11/10/11 19:51	Gross Alpha (Dissolved)	84	2	73.6		113	83 - 133	
		Gross Beta (Dissolved)	132	3	126		105	88 - 115	

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

Sample ID	RunNo: 76852	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110248-001FMS	11/10/11 19:51	Gross Alpha (Dissolved)	122	3	147	ND	83.2	48 - 153	
		Gross Beta (Dissolved)	285	4	252	5	111	60 - 140	

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

Sample ID	RunNo: 76852	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110249-001FDUP	11/10/11 19:51	Gross Alpha (Dissolved)	ND	3	4			20	
		Gross Beta (Dissolved)	4	4	5	13.0		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: S1110248
Project: Reno Creek Project

Date: 12/1/2011
Report ID: S1110248001

Anions by ION Chromatography

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

Sample ID	RunNo: 75994	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	10/20/11 9:43	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 75994	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	10/20/11 9:58	Chloride	30	1	30		98.3	90 - 110	
		Sulfate	139	1	150		93.0	90 - 110	

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

Sample ID	RunNo: 75994	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110206-005ASPK	10/20/11 13:42	Chloride	2120	1	1000	1150	96.6	80 - 120	
		Sulfate	21200	1	8040	13200	99.3	80 - 120	

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

Sample ID	RunNo: 75994	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110206-005AD	10/20/11 13:27	Chloride	1140	1	1150	0.460		20	
		Sulfate	13200	1	13200	0.0132		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: S1110248
Project: Reno Creek Project

Date: 12/1/2011
Report ID: S1110248001

Cations by ICP (Method 200.7)

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

Sample ID	RunNo: 75934	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	10/19/11 11:19	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 75934	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	10/19/11 11:24	Calcium	39	1	40		97.8	85 - 115	
		Magnesium	39	1	40		98.6	85 - 115	
		Potassium	38	1	40		95.5	85 - 115	
		Sodium	39	1	40		96.7	85 - 115	

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

Sample ID	RunNo: 75934	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110253-001AS	10/19/11 16:09	Calcium	53	1	50	ND	105	70 - 130	
		Magnesium	53	1	50	ND	106	70 - 130	
		Potassium	50	1	50	ND	100	70 - 130	
		Sodium	54	1	50	ND	108	70 - 130	

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

Sample ID	RunNo: 75934	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1110253-001ASD	10/19/11 16:11	Calcium	50	1	53	4.16	101	20	
		Magnesium	52	1	53	2.23	104	20	
		Potassium	48	1	50	4.30	96.1	20	
		Sodium	52	1	54	4.50	103	20	

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

Sample ID	RunNo: 75934	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110251-001AD	10/19/11 16:04	Calcium	203	1	201	1.21		20	
		Magnesium	37	1	36	2.36		20	
		Potassium	10	1	10	1.45		20	
		Sodium	240	1	216	10.8		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: S1110248
Project: Reno Creek Project

Date: 12/1/2011
Report ID: S1110248001

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

Sample ID	RunNo: 76143	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	10/25/11 16:01	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 76143	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	10/25/11 16:03	Nitrogen, Ammonia (As N)	10.0	0.1	10		99.8	90 - 110	

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

Sample ID	RunNo: 76143	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110275-001C	10/25/11 17:30	Nitrogen, Ammonia (As N)	9.2	0.1	10	0.2	89.9	80 - 120	

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

Sample ID	RunNo: 76143	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110275-001C	10/25/11 17:29	Nitrogen, Ammonia (As N)	0.2	0.1	0.2	1.17		20	

Nitrogen, Nitrate-Nitrite (as N)Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 76113	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	10/24/11 9:53	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 76113	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	10/24/11 9:55	Nitrogen, Nitrate-Nitrite (as N)	2.1	0.1	2.31		92.7	90 - 110	

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

Sample ID	RunNo: 76113	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110304-005B	10/24/11 12:26	Nitrogen, Nitrate-Nitrite (as N)	10.6	0.05	10	0.44	102	80 - 120	

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

Sample ID	RunNo: 76113	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110304-005B	10/24/11 12:25	Nitrogen, Nitrate-Nitrite (as N)	0.45	0.05	0.44	0.837		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: S1110248
Project: Reno Creek Project

Date: 12/1/2011
Report ID: S1110248001

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

Sample ID	RunNo: 76787	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-297	11/09/11 12:56	Lead 210 (Suspended)	ND	1					

Sample ID	RunNo: 76788	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-297	11/03/11 12:23	Polonium 210 (Suspended)	ND	1					

Sample ID	RunNo: 77384	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-318	11/18/11 12:42	Polonium 210 (Dissolved)	ND	1					

Sample ID	RunNo: 77487	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-297	11/10/11 11:01	Lead 210 (Dissolved)	ND	1					

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

Sample ID	RunNo: 76787	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-297	11/09/11 12:56	Lead 210 (Suspended)	14	1	12.9		109	60.3 - 141	

Sample ID	RunNo: 76788	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-297 PO	11/03/11 12:23	Polonium 210 (Suspended)	3	1	2.16		139	48.6 - 156	

Sample ID	RunNo: 77384	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-318 PO	11/18/11 12:42	Polonium 210 (Dissolved)	5	1	3.89		139	35.1 - 175	

Sample ID	RunNo: 77487	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-297	11/10/11 11:01	Lead 210 (Dissolved)	16	1	12.9		127	67.6 - 131	

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

Sample ID	RunNo: 76787	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110246-001FMS	11/09/11 12:56	Lead 210 (Suspended)	14	1	12.9	ND	106	62.4 - 132	

Sample ID	RunNo: 76788	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110246-001FMS	11/03/11 12:23	Polonium 210 (Suspended)	4	1	12.9	ND	31.0	28 - 173	

Sample ID	RunNo: 77384	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110216-001DMS	11/18/11 12:42	Polonium 210 (Dissolved)	12	1	12.8	ND	96.0	20.9 - 160	

Sample ID	RunNo: 77487	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110216-001DMS	11/10/11 11:01	Lead 210 (Dissolved)	16	1	12.9	2	107	66 - 133	

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: S1110248
Project: Reno Creek Project

Date: 12/1/2011
Report ID: S1110248001

Lead 210 and Polonium 210

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

Sample ID	RunNo: 76787	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1110248-001FDUP 11/09/11 12:56 Lead 210 (Suspended) ND 1 ND 20

Sample ID	RunNo: 76788	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1110248-001FDUP 11/03/11 12:23 Polonium 210 (Suspended) ND 1 ND 20

Sample ID	RunNo: 77384	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1110216-003DDUP 11/18/11 12:42 Polonium 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo: 77487	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1110216-007DDUP 11/10/11 11:01 Lead 210 (Dissolved) 1 1 ND 20 R

Radium 228

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

Sample ID	RunNo: 77433	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-325 11/28/11 17:34 Radium 228 (Dissolved) ND 1

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

Sample ID	RunNo: 77433	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-325 11/28/11 17:34 Radium 228 (Dissolved) 10 1 9.89 102 74.9 - 122

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

Sample ID	RunNo: 77433	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1110025-002EMS 11/28/11 17:34 Radium 228 (Dissolved) 9 1 9.89 ND 95.2 48.4 - 167

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

Sample ID	RunNo: 77433	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1110247-001FDUP 11/28/11 17:34 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: S1110248
Project: Reno Creek Project

Date: 12/1/2011
Report ID: S1110248001

Radium 226 by SM 7500

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

Sample ID	RunNo: 76343	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-297	10/28/11 13:59	Radium 226 (Suspended)	ND	0.2					

Sample ID	RunNo: 76346	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-298	10/29/11 16:32	Radium 226 (Dissolved)	ND	0.2					

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

Sample ID	RunNo: 76343	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-297	10/28/11 13:59	Radium 226 (Suspended)	5.0	0.2	5		99.8	56.4 - 132	

Sample ID	RunNo: 76346	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-298	10/29/11 16:32	Radium 226 (Dissolved)	5.0	0.2	5		99.7	62.5 - 125	

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

Sample ID	RunNo: 76343	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110211-001FMS	10/28/11 13:59	Radium 226 (Suspended)	6.2	0.2	5	1.3	97.6	51.4 - 135	

Sample ID	RunNo: 76346	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110216-005DMS	10/29/11 20:30	Radium 226 (Dissolved)	4.9	0.2	5	ND	98.4	41.6 - 146	

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

Sample ID	RunNo: 76343	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110200-001FDUP	10/28/11 13:59	Radium 226 (Suspended)	ND	0.2	ND			20	

Sample ID	RunNo: 76346	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110210-001FDUP	10/29/11 16:32	Radium 226 (Dissolved)	13.1	0.2	13.9	5.25		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: S1110248
Project: Reno Creek Project

Date: 12/1/2011
Report ID: S1110248001

Thorium 230 in Water

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

Sample ID	RunNo: 76662	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-298	11/03/11 8:14	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 76828	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-298	11/08/11 8:10	Thorium 230 (Suspended)	ND	0.2	0		0		

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

Sample ID	RunNo: 76662	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-298	11/03/11 8:14	Thorium 230 (Dissolved)	12	0.2	12		99.1	67.1 - 134	

Sample ID	RunNo: 76828	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-298	11/08/11 8:10	Thorium 230 (Suspended)	12	0.2	12		99.5	69.2 - 127	

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

Sample ID	RunNo: 76662	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110246-001F DUP	11/04/11 8:46	Thorium 230 (Dissolved)	ND	0.2	ND			20	

Sample ID	RunNo: 76828	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110251-001F DUP	11/09/11 13:19	Thorium 230 (Suspended)	ND	0.2	ND		0	20	

Radon 222 by SM7500-RN

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

Sample ID	RunNo: 76356	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R76356	10/19/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 76356	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R76356	10/19/11 0:00	Radon-222	22200	100	22500		98.7	75 - 125	L

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

Sample ID	RunNo: 76356	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110248-001A	10/19/11 0:00	Radon-222	90	50	100	11.5		20	L

- 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: S1110248
Project: Reno Creek Project

Date: 12/1/2011
Report ID: S1110248001

Silica as SiO2

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

Sample ID	RunNo: 75937	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	10/19/11 11:19	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 75937	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	10/19/11 11:21	Silica as SiO2	2.1	0.1	2.14		98.7	85 - 115	

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

Sample ID	RunNo: 75937	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110251-001DD	10/19/11 16:04	Silica as SiO2	12.2	0.1	12.0	1.74		20	

Solids By SM 2540

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

Sample ID	RunNo: 76028	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	10/20/11 10:40	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 76028	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	10/20/11 10:45	Total Dissolved Solids (180)	230	10	226		102	90 - 110	

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

Sample ID	RunNo: 76028	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110253-013A	10/20/11 12:25	Total Dissolved Solids (180)	970	10	980	0.410		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: S1110248
Project: Reno Creek Project

Date: 12/1/2011
Report ID: S1110248001

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

Sample ID	RunNo: 75980	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-5562	10/20/11 16:44	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 75980	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-5562	10/20/11 16:47	Iron	0.49	0.05	0.5		97.9	85 - 115	
		Manganese	0.20	0.02	0.2		98.2	85 - 115	

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

Sample ID	RunNo: 75980	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110247-001ES	10/20/11 16:56	Iron	0.54	0.05	0.5	0.06	97.0	70 - 130	
		Manganese	0.20	0.02	0.2	ND	96.9	70 - 130	

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

Sample ID	RunNo: 75980	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110246-001ED	10/20/11 16:51	Iron	0.13	0.05	0.13	0.399		20	
		Manganese	0.10	0.02	0.10	0.292		20	

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

Sample ID	RunNo: 76035	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	10/21/11 14:21	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 76035	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	10/21/11 14:17	Uranium Suspended	0.0971	0.0003	0.1		97.1	85 - 115	

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

Sample ID	RunNo: 76035	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110246-001FS	10/21/11 19:34	Uranium Suspended	1.07	0.0003	1.1	ND	97.4	70 - 130	

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

Sample ID	RunNo: 76035	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1110246-001FMSD	10/21/11 19:38	Uranium Suspended	1.08	0.0003	1.07	0.756	98.1	20	

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

Sample ID	RunNo: 76035	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110246-001FD	10/21/11 19:30	Uranium Suspended	ND	0.0003	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: S1110248
Project: Reno Creek Project

Date: 12/1/2011
Report ID: S1110248001

pH Water

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

Sample ID	RunNo: 76040	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	10/21/11 14:45	pH	8.4	0.1	8.48		99.2	90 - 110	

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

Sample ID	RunNo: 76040	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110290-002A	10/21/11 16:55	pH	8.5	0.1	8.5	0.273		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
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- CHAIN OF CUSTODY RECORD -

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08378

Client Name		Project Identification		Sampler (Signature/Printed)		Telephone #	
AUC LLC		Reno Creek Project		Yaci Dickerson / Tracy Nickerson			
Report Address		Contact Name		ANALYSES / PARAMETERS		REMARKS	
pcavendor@auc-llc.com; trickerson@treccorp.com; jshrtw@treccorp.com		Tracy Nickerson		See Attached Table 1 (4-14, Guide 8, Radon 222)		See Attached Table 9 (Blanks)	
Invoice Address AUC LLC 900 Wheeler Cr Ste 150 Casper WY 82601		Email trickerson@treccorp.com		See Attached Table 2 (Air Particulate)		See Attached Table 8 (WYPDES Discharge)	
		Phone 307-267-0696		See Attached Table 3 (Vegetation)		See Attached Table 5 (Soil)	
		Purchase Order #		See Attached Table 4 (Sediment)		See Attached Table 8 (WYPDES Discharge)	
ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	
1							
2	5110248-0	10/18/11	12:15	0116-004-111018	W	13	X
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
LAB COMMENTS		Relinquished By (Signature/Printed)		DATE		TIME	
F.S.C. Yaci Dickerson / Tracy Nickerson				10/18/11		1530	
				10/19/11		9:57	
SHIPPING INFO		MATRIX CODES		TURNAROUND TIMES		COMPLIANCE INFORMATION	
<input type="checkbox"/> UPS	Water	WT	Check desired service	Compliance Monitoring?	Y	ND	ADDITIONAL REMARKS
<input type="checkbox"/> Fed Express	Soil	SL	<input checked="" type="checkbox"/> Standard turnaround	Program (SDWA, NPDES,...)			
<input type="checkbox"/> US Mail	Solid	SD	<input type="checkbox"/> RUSH - 5 Working Days	PWSID / Permit #			
<input type="checkbox"/> Hand Carried	Trip Blank	TB	<input type="checkbox"/> URGENT - < 2 Working Days	Chlorinated?	Y	ND	
<input checked="" type="checkbox"/> Other	Other	OT	Rush & Urgent Surcharges will be applied	Sample Disposal: Lab	X	Client	