



Monday, March 1, 2011

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

RE: Reno Creek Project

Order No.: S1011302

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples UM1 on November 18, 2010.

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: 3/1/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1011302

CASE NARRATIVE
Report ID: S1011302003
(Replaces S1011302002)

Sample UM1 was received on November 17, 2010.

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

S1011302-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory

Qualifiers by sample

LCS-R65491 - General Parameters/Radon-222 - Analyzed by a contract laboratory

MB-R65491 - General Parameters/Radon-222 - Analyzed by a contract laboratory

Reviewed by:

Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

CLIENT: AUC LLC
1536 Cole Blvd
Suite 330
Lakewood, CO 80401

Date Reported: 3/1/2011
Report ID: S1011302003
(Replaces S1011302002)

Project: Reno Creek Project
Lab ID: S1011302-001
Client Sample ID: UM1
COC: 008

Work Order: S1011302
Collection Date: 11/16/2010 11:25:00 AM
Date Received: 11/18/2010 10:50:00 AM
Sampler: TN
Matrix: Water

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
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Field						
pH Reading 1	8.66			s.u.	11/16/2010 1125	Field
pH Reading 2	8.68			s.u.	11/16/2010 1125	Field
pH Reading 3	8.67			s.u.	11/16/2010 1125	Field
Conductivity Reading 1	468			µmhos/cm	11/16/2010 1125	Field
Conductivity Reading 2	464			µmhos/cm	11/16/2010 1125	Field
Conductivity Reading 3	463			µmhos/cm	11/16/2010 1125	Field
Turbidity Reading 1	5.03			NTU	11/16/2010 1125	Field
Turbidity Reading 2	5.46			NTU	11/16/2010 1125	Field
Turbidity Reading 3	5.18			NTU	11/16/2010 1125	Field
Dissolved Oxygen Reading 1	11.2			mg/l	11/16/2010 1125	Field
Dissolved Oxygen Reading 2	10.6			mg/l	11/16/2010 1125	Field
Dissolved Oxygen Reading 3	10.1			mg/l	11/16/2010 1125	Field
Temperature Reading 1	8.16			°C	11/16/2010 1125	Field
Temperature Reading 2	7.89			°C	11/16/2010 1125	Field
Temperature Reading 3	8.45			°C	11/16/2010 1125	Field
Oxygen Reduction Potential Reading 1	-32.7			mV	11/16/2010 1125	Field
Oxygen Reduction Potential Reading 2	-41.4			mV	11/16/2010 1125	Field
Oxygen Reduction Potential Reading 3	-48.0			mV	11/16/2010 1125	Field
Purge Rate Reading 1	200			ml/min	11/16/2010 1125	Field
Purge Rate Reading 2	200			ml/min	11/16/2010 1125	Field
Purge Rate Reading 3	200			ml/min	11/16/2010 1125	Field
Water Level Reading 1	303.70			Ft	11/16/2010 1125	Field
Water Level Reading 2	303.80			Ft	11/16/2010 1125	Field
Water Level Reading 3	303.90			Ft	11/16/2010 1125	Field

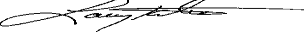
General Parameters						
pH	8.6	0.1		s.u.	11/19/2010 205 KO	SM 4500 H B
Electrical Conductivity	459	5		µmhos/cm	11/19/2010 205 KO	SM 2510B
Total Dissolved Solids (180)	250	10		mg/L	11/18/2010 1730 JF	SM 2540
Solids, Total Dissolved (Calc)	260	10		mg/L	12/15/2010 1000 LJK	SM 1030E
Alkalinity, Total (As CaCO3)	181	5		mg/L	12/06/2010 1331 KO	SM 2320B
Nitrogen, Ammonia (As N)	ND	0.1		mg/L	11/24/2010 1009 AS	EPA 350.1
Radon-222	1240 ± 63.2	100	L	pCi/L	11/17/2010 1558 LJK	SM7500-RN
Silica as SiO2	8	1		mg/L	11/18/2010 1657 DG	EPA 200.7

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

CLIENT: AUC LLC
1536 Cole Blvd
Suite 330
Lakewood, CO 80401

Date Reported: 3/1/2011
Report ID: S1011302003
(Replaces S1011302002)

Project: Reno Creek Project
Lab ID: S1011302-001
Client Sample ID: UM1
COC: 008

Work Order: S1011302
Collection Date: 11/16/2010 11:25:00 AM
Date Received: 11/18/2010 10:50:00 AM
Sampler: TN
Matrix: Water

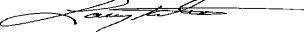
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Anions						
Alkalinity, Bicarbonate as HCO3	208	5		mg/L	12/06/2010 1331 KO	SM 2320B
Alkalinity, Carbonate as CO3	6	5		mg/L	12/06/2010 1331 KO	SM 2320B
Chloride	18	1		mg/L	11/23/2010 1534 KO	EPA 300.0
Fluoride	0.2	0.1		mg/L	11/19/2010 1752 KO	SM 4500FC
Nitrogen, Nitrate-Nitrite (as N)	ND	0.1		mg/L	11/30/2010 1122 AS	EPA 353.2
Sulfate	26	1		mg/L	11/23/2010 1534 KO	EPA 300.0
Cations						
Calcium	9	1		mg/L	12/03/2010 1220 DG	EPA 200.7
Magnesium	2	1		mg/L	12/03/2010 1220 DG	EPA 200.7
Potassium	3	1		mg/L	12/03/2010 1220 DG	EPA 200.7
Sodium	89	1		mg/L	12/03/2010 1220 DG	EPA 200.7
Cation / Anion Balance						
Cation Sum	4.53	0		meq/L	12/15/2010 1000 LJK	SM 1030E
Anion Sum	4.67	0		meq/L	12/15/2010 1000 LJK	SM 1030E
Cation-Anion Balance	1.43	0		%	12/15/2010 1000 LJK	SM 1030E
Radiochemistry						
Gross Alpha	14 ± 1.7	2		pCi/L	12/08/2010 1859 SH	SM 7110B
Gross Beta	5.3 ± 1.0	3		pCi/L	12/08/2010 1859 SH	SM 7110B
Lead 210 (Dissolved)	1.1 ± 0.6	1		pCi/L	12/09/2010 1921 SH	OTW01
Lead 210 (Suspended)	4.1 ± 2.2	1		pCi/L	12/09/2010 1921 SH	OTW01
Polonium 210 (Dissolved)	<1	1		pCi/L	12/10/2010 1331 SH	OTW01
Polonium 210 (Suspended)	<1	1		pCi/L	12/14/2010 1607 SH	OTW01
Radium 226 (Dissolved)	2.4 ± 0.2	0.2		pCi/L	12/01/2010 915 SH	SM 7500-Ra B
Radium 226 (Suspended)	0.3 ± 0.4	0.2		pCi/L	12/22/2010 1427 SH	SM 7500-Ra B
Radium 228 (Dissolved)	<1	1		pCi/L	12/10/2010 2007 SH	Ra-05
Thorium 230 (Dissolved)	0.3 ± 0.1	0.2		pCi/L	12/01/2010 1349 WL	ACW10
Thorium 230 (Suspended)	<0.2	0.2		pCi/L	12/22/2010 826 WL	ACW10
Uranium Suspended	<0.0003	0.0003		mg/L	11/29/2010 1322 MS	EPA 200.8

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Reviewed by: 
Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

CLIENT: AUC LLC
1536 Cole Blvd
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Report ID: S1011302003
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Lab ID: S1011302-001
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Sampler: TN
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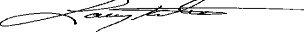
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Dissolved Metals						
Aluminum	ND	0.1		mg/L	11/18/2010 1657 DG	EPA 200.7
Arsenic	ND	0.001		mg/L	11/18/2010 1509 MS	EPA 200.8
Barium	ND	0.1		mg/L	11/18/2010 1509 MS	EPA 200.8
Boron	ND	0.1		mg/L	11/18/2010 1657 DG	EPA 200.7
Cadmium	ND	0.001		mg/L	11/18/2010 1509 MS	EPA 200.8
Chromium	ND	0.01		mg/L	11/18/2010 1657 DG	EPA 200.7
Copper	ND	0.01		mg/L	11/18/2010 1509 MS	EPA 200.8
Iron	0.13	0.05		mg/L	11/18/2010 1657 DG	EPA 200.7
Lead	ND	0.01		mg/L	11/18/2010 1509 MS	EPA 200.8
Manganese	0.02	0.01		mg/L	11/18/2010 1657 DG	EPA 200.7
Mercury	ND	0.001		mg/L	12/01/2010 1000 BK	EPA 245.1
Molybdenum	ND	0.01		mg/L	11/18/2010 1509 MS	EPA 200.8
Nickel	ND	0.05		mg/L	11/18/2010 1657 DG	EPA 200.7
Selenium	ND	0.005		mg/L	11/18/2010 1509 MS	EPA 200.8
Uranium	0.0080	0.0003		mg/L	11/18/2010 1509 MS	EPA 200.8
Vanadium	ND	0.1		mg/L	11/18/2010 1509 MS	EPA 200.8
Zinc	ND	0.01		mg/L	11/18/2010 1657 DG	EPA 200.7
Total Metals						
Iron	0.50	0.05		mg/L	11/22/2010 1852 DG	EPA 200.7
Manganese	0.02	0.01		mg/L	11/22/2010 1852 DG	EPA 200.7

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
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 - L Analyzed by a contract laboratory
 - ND Not Detected at the Reporting Limit
 - S Spike Recovery outside accepted recovery limits

RL - Reporting Limit

- 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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1011302
Project: Reno Creek Project

Date: 3/1/2011
Report ID: S1011302003

Test: **Alkalinity**

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK 11/18/10 12:56 Alkalinity, Total (As CaCO3) ND 5

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK 11/19/10 13:28 Alkalinity, Total (As CaCO3) ND 5

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK 12/06/10 13:24 Alkalinity, Total (As CaCO3) ND 5

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK 12/06/10 18:34 Alkalinity, Total (As CaCO3) ND 5

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC 11/18/10 12:47 Alkalinity, Total (As CaCO3) 479 5 473 101 96.6 - 103

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC 11/19/10 13:18 Alkalinity, Total (As CaCO3) 481 5 473 88.7 96.6 - 103

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC 12/06/10 13:16 Alkalinity, Total (As CaCO3) 486 5 473 102 96.6 - 103

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC 12/06/10 18:24 Alkalinity, Total (As CaCO3) 485 5 473 102 96.6 - 103

Test: **Conductivity**

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK 11/18/10 12:56 Electrical Conductivity ND 5

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK 11/19/10 13:28 Electrical Conductivity ND 5

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK 12/06/10 13:24 Electrical Conductivity ND 5

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK 12/06/10 18:34 Electrical Conductivity ND 5

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1011302
Project: Reno Creek Project

Date: 3/1/2011**Report ID:** S1011302003Test: **Conductivity**Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	11/18/10 12:47	Electrical Conductivity	1010	5	1000		101	90 - 110	
ATQC	11/19/10 13:18	Electrical Conductivity	1010	5	1000		101	90 - 110	
ATQC	12/06/10 13:16	Electrical Conductivity	980	5	1000		98.0	90 - 110	
ATQC	12/06/10 18:24	Electrical Conductivity	974	5	1000		97.4	90 - 110	

Test: **Dissolved Mercury by EPA 245.1 - Water**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	12/01/10 9:39	Mercury	ND	0.001					

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	12/01/10 9:37	Mercury	0.002	0.001	0.002		100	85 - 115	

Test: **Dissolved Metals by ICP - EPA 200.7 - Water**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICB	11/18/10 14:49	Aluminum	ND	0.1					
		Boron	ND	0.03					
		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:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICV Q	11/18/10 14:51	Aluminum	1.1	0.1	1		105	85 - 115	
		Boron	1.01	0.03	1		98.3	85 - 115	
		Chromium	1.04	0.01	1		104	85 - 115	
		Iron	1.02	0.05	1		102	85 - 115	
		Manganese	1.04	0.02	1		104	85 - 115	
		Nickel	1.04	0.01	1		104	85 - 115	
		Zinc	1.04	0.01	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	M Value exceeds Monthly Ave or MCL
	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: S1011302
Project: Reno Creek Project

Date: 3/1/2011**Report ID:** S1011302003Test: **Dissolved Metals by ICPMS EPA 200.8 - Water**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 65130	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Init Cal Blank	11/18/10 13:18	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: 65130	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
lcs	11/18/10 13:25	Arsenic	0.098	0.005	0.1		97.5	85 - 115	
		Barium	ND	0.5	0.1		96.4	85 - 115	
		Cadmium	0.096	0.002	0.1		96.3	85 - 115	
		Copper	0.09	0.01	0.1		94.5	85 - 115	
		Lead	0.10	0.02	0.1		95.4	85 - 115	
		Molybdenum	0.09	0.02	0.1		93.9	85 - 115	
		Selenium	0.098	0.005	0.1		97.9	85 - 115	
		Uranium	0.097	0.001	0.1		97.1	85 - 115	
		Vanadium	0.10	0.02	0.1		95.4	85 - 115	

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

Sample ID	RunNo: 65139	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	11/18/10 12:56	Fluoride	ND	0.1					

Sample ID	RunNo: 65193	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	11/19/10 13:28	Fluoride	ND	0.1					

Sample ID	RunNo: 65557	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	12/06/10 13:24	Fluoride	ND	0.1					

Sample ID	RunNo: 65557	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	12/06/10 18:34	Fluoride	ND	0.1					

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

Sample ID	RunNo: 65139	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	11/18/10 12:47	Fluoride	3.1	0.1	2.82		111	86.1 - 114	

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	M	Value exceeds Monthly Ave or MCL
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: S1011302
Project: Reno Creek Project

Date: 3/1/2011**Report ID:** S1011302003Test: **Fluoride by SM 4500**Sample Type **LCS** Units: mg/L

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	11/19/10 13:18	Fluoride	2.8	0.1	2.82		101	86.1 - 114	
Sample ID	RunNo: 65557	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	12/06/10 13:16	Fluoride	2.6	0.1	2.82		93.5	86.1 - 114	
Sample ID	RunNo: 65557	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	12/06/10 18:24	Fluoride	2.9	0.1	2.82		103	86.1 - 114	

Test: **Anions by ION Chromatography**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK	11/23/10 0:00	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	11/23/10 8:33	Sulfate	146	1	150		97.7	90 - 110	
Sample ID	RunNo: 65322	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	11/23/10 8:45	Chloride	31	1	30		104	90 - 110	

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICB	11/18/10 14:49	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					
Sample ID	RunNo: 65518	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICB	12/03/10 12:04	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
L	Analyzed by a contract laboratory	M	Value exceeds Monthly Ave or MCL
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: S1011302
Project: Reno Creek Project

Date: 3/1/2011**Report ID:** S1011302003Test: **Cations by ICP (Method 200.7)**Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 65137	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICV 3	11/18/10 14:53	Calcium	41	1	40		101	85 - 115	
		Magnesium	40	1	40		100	85 - 115	
		Potassium	40	1	40		101	85 - 115	
		Sodium	42	1	40		104	85 - 115	

Sample ID	RunNo: 65518	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICV 3	12/03/10 12:09	Calcium	41	1	40		101	85 - 115	
		Magnesium	41	1	40		101	85 - 115	
		Potassium	40	1	40		101	85 - 115	
		Sodium	40	1	40		99.9	85 - 115	

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

Sample ID	RunNo: 65290	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
blank	11/24/10 11:37	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 65290	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	11/24/10 9:59	Nitrogen, Ammonia (As N)	14.7	0.1	16		92.0	90 - 110	

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

Sample ID	RunNo: 65345	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
blk	11/30/10 10:52	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 65345	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	11/30/10 10:54	Nitrogen, Nitrate-Nitrite (as N)	30.2	0.1	28.7		105	90 - 110	

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

Sample ID	RunNo: 65883	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB10-335	12/10/10 12:06	Polonium 210 (Dissolved)	ND	1					

Sample ID	RunNo: 65883	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB10-335B	12/10/10 12:06	Polonium 210 (Dissolved)	ND	1					

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	M	Value exceeds Monthly Ave or MCL
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: S1011302
Project: Reno Creek Project

Date: 3/1/2011**Report ID:** S1011302003Test: **Lead 210 and Polonium 210**Sample Type **MBLK** Units: piC/L

Sample ID	RunNo: 65885	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB10-335	12/09/10 14:35	Lead 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 65885	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB10-335B	12/09/10 14:35	Lead 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 65901	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB-R65901	12/09/10 17:12	Lead 210 (Suspended)	ND	1					
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Sample ID	RunNo: 65901	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB-R65901	12/09/10 17:12	Lead 210 (Suspended)	ND	1					
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Sample ID	RunNo: 65908	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB-R65908	12/14/10 16:07	Polonium 210 (Suspended)	ND	1					
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Sample ID	RunNo: 65908	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB-R65908	12/14/10 16:07	Polonium 210 (Suspended)	ND	1					
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Sample Type **LCS** Units: piC/L

Sample ID	RunNo: 65883	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS10-335 Po	12/10/10 12:06	Polonium 210 (Dissolved)	16	1	15.1		106	50 - 150	
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Sample ID	RunNo: 65885	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS10-335 Pb	12/09/10 14:35	Lead 210 (Dissolved)	10	1	11.1		86.5	50 - 150	
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Sample ID	RunNo: 65901	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS-R65901	12/09/10 17:12	Lead 210 (Suspended)	8	1	11.1		70.2	50 - 150	
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Sample ID	RunNo: 65908	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS10-355 PO	12/14/10 16:07	Polonium 210 (Suspended)	12	1	15.1		81.2	50 - 150	
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Test: **Total Radium 228**Sample Type **MBLK** Units: piC/L

Sample ID	RunNo: 65863	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB10-336	12/10/10 20:07	Radium 228 (Dissolved)	ND	1					
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Sample Type **LCS** Units: piC/L

Sample ID	RunNo: 65863	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS10-336	12/10/10 20:07	Radium 228 (Dissolved)	15	1	14.3		104	63.8 - 119	
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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	M	Value exceeds Monthly Ave or MCL
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: S1011302
Project: Reno Creek Project

Date: 3/1/2011**Report ID:** S1011302003Test: **Radium 226 by SM 7500**Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 65474	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R65474	12/01/10 9:15	Radium 226 (Dissolved)	ND	0.2					
		Radium 226 (Suspended)	ND	0.2					

Sample ID	RunNo: 66104	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB10-351	12/22/10 14:27	Radium 226 (Suspended)	ND	0.2					

Sample ID	RunNo: 66104	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB10-351B	12/22/10 14:27	Radium 226 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 65474	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R65474	12/01/10 9:15	Radium 226 (Dissolved)	8.1	0.2	9.52		85.1	69.3 - 130	
		Radium 226 (Suspended)	8.1	0.2	9.52		85.1	69.3 - 130	

Sample ID	RunNo: 66104	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS10-351	12/22/10 14:27	Radium 226 (Suspended)	7.9	0.2	9.52		82.5	69.3 - 130	

Sample ID	RunNo: 66104	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS10-351B	12/22/10 14:27	Radium 226 (Suspended)	7.4	0.2	9.52		77.5	69.3 - 130	

Test: **Thorium 230 in Water**Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 65612	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R65612	12/01/10 9:42	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 66100	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R66100	12/22/10 8:26	Thorium 230 (Suspended)	ND	0.2					

Sample ID	RunNo: 66100	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R66100	12/22/10 8:26	Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 65612	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R65612	12/01/10 9:42	Thorium 230 (Dissolved)	13	0.2	12		101	50 - 150	

Sample ID	RunNo: 66100	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R66100	12/22/10 8:26	Thorium 230 (Suspended)	12	0.2	12		96.4	50 - 150	

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	M	Value exceeds Monthly Ave or MCL
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: S1011302
Project: Reno Creek Project

Date: 3/1/2011**Report ID:** S1011302003Test: **Radon 222 by SM7500-RN**Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 65491	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R65491	11/17/10 0:00	Radon-222	ND	100					L

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

Sample ID	RunNo: 65491	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R65491	11/17/10 0:00	Radon-222	300	100	313		96.2	70 - 130	L

Test: **Silica as SiO2**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 65146	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICB	11/18/10 14:49	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 65146	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICV Q	11/18/10 14:51	Silica as SiO2	2.2	0.1	2.14		103	85 - 115	

Test: **Solids By SM 2540**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 65252	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Air	11/18/10 16:00	Total Dissolved Solids (180)	ND	10					

Sample ID	RunNo: 65252	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Air	11/18/10 16:05	Total Dissolved Solids (180)	ND	10					

Sample ID	RunNo: 65252	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	11/18/10 16:10	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 65252	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Control	11/18/10 16:15	Total Dissolved Solids (180)	210	10	226		94.7	90 - 110	

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

Sample ID	RunNo: 65246	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK 11/22 TOT -4691	11/22/10 18:47	Iron	ND	0.05					
		Manganese	ND	0.02					

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	M	Value exceeds Monthly Ave or MCL
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: S1011302
Project: Reno Creek Project

Date: 3/1/2011**Report ID:** S1011302003Test: **Total (200.2) Metals by EPA 200.7 ICP - Water**Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 65246	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS 11/22 TOT -4691	11/22/10 18:49	Iron	0.45	0.05	0.5		90.5	85 - 115	
		Manganese	0.18	0.02	0.2		91.8	85 - 115	

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

Sample ID	RunNo: 65246	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1011302-001E	11/22/10 18:54	Iron	0.49	0.05	0.498	2.05		20	
		Manganese	0.02	0.01	0.0240	0		20	

Test: **Suspended Natural Uranium**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 65314	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Init Cal Blank	11/29/10 12:03	Uranium Suspended	ND	0.001					

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

Sample ID	RunNo: 65314	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
lcs	11/29/10 12:10	Uranium Suspended	0.098	0.001	0.1		97.8	90 - 110	

Test: **pH Water**Sample Type **MBLK** Units: s.u.

Sample ID	RunNo: 65193	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	11/19/10 13:28	pH	6.8	0.1					

Sample ID	RunNo: 65557	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	12/06/10 13:24	pH	6.1	0.1					

Sample ID	RunNo: 65557	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	12/06/10 18:34	pH	6.0	0.1					

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

Sample ID	RunNo: 65139	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	11/18/10 12:47	pH	11.0	0.1	10.7		102	94.8 - 105	

Sample ID	RunNo: 65193	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	11/19/10 13:18	pH	11.0	0.1	10.7		102	94.8 - 105	

Sample ID	RunNo: 65557	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	12/06/10 13:16	pH	10.9	0.1	10.7		102	94.8 - 105	

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	M	Value exceeds Monthly Ave or MCL
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: S1011302
Project: Reno Creek Project

Date: 3/1/2011

Report ID: S1011302003

Test: **pH Water**

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

Sample ID	RunNo: 65557	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	12/06/10 18:24	pH	10.7	0.1	10.7		99.7	94.8 - 105	

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



Inter-Mountain Labs, Inc.
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

WEB

Telephone # **008**

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 This is a legal document; any misrepresentation may be construed as fraud.

Client Name **AUC, LLC**

Project Identification **2010-101**

Report Address **pcavendor@bayswateruranium.com**

Contact Name and Email **Jim Shriver jshriver@treccorp.com**

Voice **307-265-0696**

FAX **307-265-2498**

Purchase Order #

Quote #

Invoice Address **AUC, LLC**

951 Werner Court Suite 395

Casper Wyoming 82601

Project #

Sampler (Signature/Attestation of Authenticity)

Jim Nickerson 307-265-0696

ANALYSES / PARAMETERS

see attached tables

REMARKS

Matrix

of Containers

IDENTIFICATION

SAMPLE

DATE SAMPLED

TIME

LAB ID

(Lab Use Only)

ITEM

1

2

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

DATE	TIME	Signature
11/17/10	0800	Shirley D. McLeod
11/18/10	1050	Shirley D. McLeod

SHIPPING INFO

MATRIX CODES

TURN AROUND TIMES

COMPLIANCE INFORMATION

ADDITIONAL REMARKS

- UPS
- Fed Express
- US Mail
- Hand Carried
- Other

- Water
- Soil
- Solid
- Trip Blank
- Other

- Check desired service
- Standard turnaround
- RUSH - 5 Working Days
- URGENT - < 2 Working Days
- Rush & Urgent Surcharges will be applied*

Compliance Monitoring?
 Program (SDWA, NPDES, ...)
 PWSID / Permit #
 Chlorinated?
 Sample Disposal: Lab Client

Y / N

60' v

Yanil Nickerson

11/18/10

Shirley D. McLeod

11/17/10 0800