



Wednesday, July 27, 2011

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

RE: Reno Creek Project
Orde

r No.: S1105252

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples UM4-002-110517 on May 17, 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: 7/27/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1105252

CASE NARRATIVE
Report ID: S1105252003
(Replaces S1105252002)

Sample UM4-002-110517 was received on May 17, 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

S1105252-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory

Qualifiers by sample

S1105315-001 - Radiochemistry/Lead 210 (Suspended) - RPD outside accepted recovery limits
S1105252-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
LCS-R70682 - General Parameters/Radon-222 - Analyzed by a contract laboratory
MB-R70682 - 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 7/27/2011
Report ID S1105252003
(Replaces S1105252002)

ProjectName: Reno Creek Project
Lab ID: S1105252-001
ClientSample ID: UM4-002-110517
COC: RC 08281

WorkOrder: S1105252
CollectionDate: 5/17/2011 12:25:00 PM
DateReceived: 5/17/2011 4:31:00 PM
FieldSampler: TN
Matrix: Water

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

These results apply only to the samples tested.

RL - Reporting Limit

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

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

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



Sample Analysis Report

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Lakewood, CO 80401

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DateReceived: 5/17/2011 4:31:00 PM
FieldSampler: TN
Matrix: Water

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.).

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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).

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FieldSampler: TN
Matrix: Water

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

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1105252
Project: Reno Creek Project

Date: 7/27/2011
Report ID: S1105252003
(Replaces S1105252002)

Alkalinity

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

Sample ID	RunNo: 70230	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	05/19/11 15:08	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 70230	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	05/19/11 15:00	Alkalinity, Total (As CaCO3)	592	5	607		97.5	90 - 110	

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

Sample ID	RunNo: 70230	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105270-001B	05/19/11 16:28	Alkalinity, Bicarbonate as HCO3	136	5	135	0.996		20	
		Alkalinity, Carbonate as CO3	ND	5	ND			20	
		Alkalinity, Total (As CaCO3)	112	5	111	0.996		20	

Conductivity

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 70230	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	05/19/11 15:08	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 70230	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	05/19/11 15:00	Electrical Conductivity	974	5	1000		97.3	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 70230	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105270-001B	05/19/11 16:28	Electrical Conductivity	735	5	730	0.685		20	

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 - E Value above quantitation range
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ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1105252
Project: Reno Creek Project

Date: 7/27/2011
Report ID: S1105252003
(Replaces S1105252002)

Dissolved Mercury by EPA 245.1 - Water

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

Sample ID	RunNo: 70396	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	05/24/11 9:39	Mercury	ND	0.001					

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

Sample ID	RunNo: 70396	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	05/24/11 9:37	Mercury	0.002	0.001	0.002		92.3	85 - 115	

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

Sample ID	RunNo: 70396	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105245-001E	05/24/11 10:00	Mercury	0.002	0.001	0.00244	ND	86.8	70 - 130	

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

Sample ID	RunNo: 70396	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1105245-001E	05/24/11 10:02	Mercury	0.002	0.001	0.002	3.77	90.1	20	

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

Sample ID	RunNo: 70396	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105245-001E	05/24/11 9:58	Mercury	ND	0.001	ND			20	

- Qualifiers:**
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 - E Value above quantitation range
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ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1105252
Project: Reno Creek Project

Date: 7/27/2011
Report ID: S1105252003
 (Replaces S1105252002)

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 70280	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	05/20/11 11:39	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: 70280	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	05/20/11 11:42	Aluminum	1.0	0.1	1		103	85 - 115	
		Boron	1.0	0.1	1		99.0	85 - 115	
		Chromium	1.00	0.01	1		99.7	85 - 115	
		Iron	1.03	0.05	1		103	85 - 115	
		Manganese	1.04	0.02	1		104	85 - 115	
		Nickel	1.03	0.01	1		103	85 - 115	
		Zinc	0.98	0.01	1		97.6	85 - 115	

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

Sample ID	RunNo: 70280	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105298-001BS	05/20/11 12:49	Aluminum	11.0	0.1	10.5	ND	105	70 - 130	
		Boron	10.4	0.1	10.5	0.3	96.2	70 - 130	
		Chromium	9.95	0.01	10.5	ND	94.8	70 - 130	
		Iron	10.1	0.05	10.5	ND	95.7	70 - 130	
		Manganese	12.1	0.02	10.5	2.19	94.4	70 - 130	
		Nickel	9.86	0.01	10.5	ND	93.9	70 - 130	
		Zinc	9.44	0.01	10.5	ND	89.9	70 - 130	

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

Sample ID	RunNo: 70280	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1105298-001BSD	05/20/11 12:51	Aluminum	10.9	0.1	11.0	1.19	104	20	
		Boron	10.5	0.1	10.4	0.527	96.7	20	
		Chromium	9.84	0.01	9.95	1.17	93.7	20	
		Iron	9.91	0.05	10.1	1.46	94.3	20	
		Manganese	12.0	0.02	12.1	1.03	93.2	20	
		Nickel	9.75	0.01	9.86	1.07	92.9	20	
		Zinc	9.40	0.01	9.44	0.406	89.5	20	

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 - 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
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Project: Reno Creek Project

Date: 7/27/2011
Report ID: S1105252003
 (Replaces S1105252002)

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

Sample ID	RunNo: 70280	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105297-002CD	05/20/11 12:44	Aluminum	ND	0.1	ND			20	
		Boron	0.2	0.1	0.2	2.53		20	
		Chromium	ND	0.01	ND			20	
		Iron	6.16	0.05	5.89	4.59		20	
		Manganese	0.53	0.02	0.50	4.86		20	
		Nickel	0.01	0.01	0.01	5.31		20	
		Zinc	ND	0.01	ND			20	

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

Sample ID	RunNo: 70237	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	05/19/11 12:42	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: 70237	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	05/19/11 12:38	Arsenic	0.102	0.005	0.1		102	85 - 115	
		Barium	ND	0.5	0.1		102	85 - 115	
		Cadmium	0.102	0.002	0.1		102	85 - 115	
		Copper	0.10	0.01	0.1		96.9	85 - 115	
		Lead	0.10	0.02	0.1		98.7	85 - 115	
		Molybdenum	0.10	0.02	0.1		103	85 - 115	
		Selenium	0.103	0.005	0.1		103	85 - 115	
		Uranium	0.102	0.001	0.1		102	85 - 115	
		Vanadium	0.10	0.02	0.1		100	85 - 115	

Qualifiers:

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



ANALYTICAL QC SUMMARY REPORT

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Date: 7/27/2011
Report ID: S1105252003
(Replaces S1105252002)

Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 70237	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105245-001ES	05/19/11 12:58	Arsenic	1.16	0.005	1.1	ND	105	70 - 130	
		Barium	1.2	0.5	1.1	ND	106	70 - 130	
		Cadmium	1.17	0.002	1.1	ND	106	70 - 130	
		Copper	1.05	0.01	1.1	ND	95.2	70 - 130	
		Lead	1.10	0.02	1.1	ND	99.9	70 - 130	
		Molybdenum	1.15	0.02	1.1	ND	105	70 - 130	
		Selenium	1.16	0.005	1.1	ND	106	70 - 130	
		Uranium	1.13	0.001	1.1	0.004	103	70 - 130	
		Vanadium	1.13	0.02	1.1	ND	102	70 - 130	

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

Sample ID	RunNo: 70237	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1105245-001EMSD	05/19/11 13:02	Arsenic	1.15	0.005	1.16	0.491	105	20	
		Barium	1.2	0.5	1.2	2.69	103	20	
		Cadmium	1.16	0.002	1.17	0.742	105	20	
		Copper	1.05	0.01	1.05	0.334	94.9	20	
		Lead	1.10	0.02	1.10	0.443	100	20	
		Molybdenum	1.18	0.02	1.15	2.67	107	20	
		Selenium	1.18	0.005	1.16	1.25	107	20	
		Uranium	1.14	0.001	1.13	0.166	103	20	
		Vanadium	1.14	0.02	1.13	1.24	104	20	

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

Sample ID	RunNo: 70237	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105245-001ED	05/19/11 12:54	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	0.003	0.001	0.004	1.97		20	
		Vanadium	ND	0.02	ND			20	

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ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1105252
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Date: 7/27/2011
Report ID: S1105252003
 (Replaces S1105252002)

Fluoride by SM 4500

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

Sample ID	RunNo: 70230	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	05/19/11 15:08	Fluoride	ND	0.1					

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

Sample ID	RunNo: 70230	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	05/19/11 15:00	Fluoride	2.9	0.1	2.71		105	90 - 110	

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

Sample ID	RunNo: 70230	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105281-002ASPK	05/19/11 19:01	Fluoride	2.5	0.1	2.5	ND	97.5	80 - 120	

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

Sample ID	RunNo: 70230	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105270-001B	05/19/11 16:28	Fluoride	ND	0.1	ND			20	

Gross Alpha, Beta by SM 7110B

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

Sample ID	RunNo: 70773	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-151	06/01/11 19:45	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 70773	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-151	06/01/11 19:45	Gross Alpha (Dissolved)	75	2	69		108	76.7 - 133	
		Gross Beta (Dissolved)	127	3	130		98.2	76.7 - 133	

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

Sample ID	RunNo: 70773	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105254-001GMS	06/01/11 19:45	Gross Alpha (Dissolved)	64	2	69	ND	92.1	47.8 - 153	
		Gross Beta (Dissolved)	150	3	130	5	112	47.8 - 153	

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

Sample ID	RunNo: 70773	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105254-002FDUP	06/01/11 19:45	Gross Alpha (Dissolved)	ND	2	ND			20	
		Gross Beta (Dissolved)	8	3	8	3.45		20	

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ANALYTICAL QC SUMMARY REPORT

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Date: 7/27/2011
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(Replaces S1105252002)

Anions by ION Chromatography

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

Sample ID	RunNo: 70351	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	05/20/11 9:29	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 70351	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	05/20/11 9:04	Chloride	30	1	30		99.6	90 - 110	
		Sulfate	142	1	150		94.8	90 - 110	

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

Sample ID	RunNo: 70351	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105269-001BSPK	05/20/11 17:49	Chloride	33	1	30	6	91.0	80 - 120	
		Sulfate	255	1	240	36	91.4	80 - 120	

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

Sample ID	RunNo: 70351	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105269-001B	05/20/11 17:37	Chloride	6	1	6	1.24		20	
		Sulfate	35	1	36	2.69		20	

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**ANALYTICAL QC SUMMARY REPORT**

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Work Order: S1105252
Project: Reno Creek Project

Date: 7/27/2011
Report ID: S1105252003
 (Replaces S1105252002)

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

Sample ID	RunNo: 70277	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	05/20/11 11:39	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 70277	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	05/20/11 11:44	Calcium	39	1	40		97.3	85 - 115	
		Magnesium	40	1	40		100	85 - 115	
		Potassium	40	1	40		98.9	85 - 115	
		Sodium	38	1	40		94.1	85 - 115	

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

Sample ID	RunNo: 70277	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105302-001AS	05/20/11 14:30	Calcium	54	1	25	32	88.7	70 - 130	
		Magnesium	44	1	25	21	89.8	70 - 130	
		Potassium	31	1	25	7	98.9	70 - 130	
		Sodium	33	1	25	11	88.8	70 - 130	

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

Sample ID	RunNo: 70277	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1105302-001ASD	05/20/11 14:33	Calcium	54	1	54	0.642	87.4	20	
		Magnesium	43	1	44	1.17	87.8	20	
		Potassium	31	1	31	0.265	98.6	20	
		Sodium	33	1	33	0.468	88.2	20	

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

Sample ID	RunNo: 70277	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105299-007AD	05/20/11 14:26	Calcium	230	1	228	0.855		20	
		Magnesium	73	1	73	0.324		20	
		Potassium	31	1	31	1.26		20	
		Sodium	171	1	176	2.99		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: S1105252
Project: Reno Creek Project

Date: 7/27/2011
Report ID: S1105252003
(Replaces S1105252002)

Nitrogen, Ammonia (as N)

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

Sample ID	RunNo: 70224	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	05/19/11 16:17	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 70224	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	05/19/11 16:19	Nitrogen, Ammonia (As N)	8.8	0.1	8.93		98.0	90 - 110	

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

Sample ID	RunNo: 70224	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105297-002B	05/19/11 17:22	Nitrogen, Ammonia (As N)	11.0	0.1	10	1.9	91.2	80 - 120	

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

Sample ID	RunNo: 70224	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105297-002B	05/19/11 17:21	Nitrogen, Ammonia (As N)	1.8	0.1	1.9	3.56		20	

Nitrogen, Nitrate-Nitrite (as N)

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

Sample ID	RunNo: 70364	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	05/24/11 14:17	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 70364	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	05/24/11 14:19	Nitrogen, Nitrate-Nitrite (as N)	7.4	0.1	7.69		96.1	90 - 110	

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

Sample ID	RunNo: 70364	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105312-007B	05/24/11 14:51	Nitrogen, Nitrate-Nitrite (as N)	10.9	0.1	10	0.6	103	80 - 120	

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

Sample ID	RunNo: 70364	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105312-007B	05/24/11 14:50	Nitrogen, Nitrate-Nitrite (as N)	0.6	0.1	0.6	0.583		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: S1105252
Project: Reno Creek Project

Date: 7/27/2011
Report ID: S1105252003
 (Replaces S1105252002)

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

Sample ID	RunNo: 70805	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-144	06/06/11 11:16	Polonium 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 70806	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-144	06/04/11 15:35	Lead 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 71067	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-146	06/13/11 11:42	Polonium 210 (Suspended)	ND	1					
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Sample ID	RunNo: 71075	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-146	06/13/11 8:36	Lead 210 (Suspended)	ND	1					
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Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 70805	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-144 PO	06/06/11 11:16	Polonium 210 (Dissolved)	5	1	4.65		115	35.1 - 175	
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Sample ID	RunNo: 70806	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-144	06/04/11 15:35	Lead 210 (Dissolved)	14	1	13.1		106	35.1 - 175	
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Sample ID	RunNo: 71067	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-146 PO	06/13/11 11:42	Polonium 210 (Suspended)	2	1	4.53		51.8	35.1 - 175	
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Sample ID	RunNo: 71075	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-146	06/13/11 8:36	Lead 210 (Suspended)	12	1	13.1		95.3	35.1 - 175	
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Sample Type **MS** Units: pCi/L

Sample ID	RunNo: 70805	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1105245-001GMS	06/06/11 11:16	Polonium 210 (Dissolved)	9	1	13.1	ND	69.5	20.9 - 160	
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Sample ID	RunNo: 70806	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1105252-001GMS	06/04/11 15:35	Lead 210 (Dissolved)	13	1	13.1	1	91.8	20.9 - 160	
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Sample ID	RunNo: 71067	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1105245-001GMS	06/13/11 11:42	Polonium 210 (Suspended)	9	1	13.1	ND	69.5	20.9 - 160	
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Sample ID	RunNo: 71075	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1105245-001GMS	06/13/11 8:36	Lead 210 (Suspended)	13	1	13.1	ND	98.9	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: S1105252
Project: Reno Creek Project

Date: 7/27/2011
Report ID: S1105252003
(Replaces S1105252002)

Lead 210 and Polonium 210

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

Sample ID	RunNo: 70805	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1105270-001GDUP 06/06/11 11:16 Polonium 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo: 70806	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1105270-001GDUP 06/06/11 17:51 Lead 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo: 71067	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1105315-001FDUP 06/15/11 19:55 Polonium 210 (Suspended) ND 1 ND 20

Sample ID	RunNo: 71075	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1105315-001FDUP 06/14/11 19:55 Lead 210 (Suspended) 3 1 1 89.7 20 R

Radium 228

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

Sample ID	RunNo: 71236	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-158B 06/14/11 14:57 Radium 228 (Dissolved) ND 1

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

Sample ID	RunNo: 71236	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-158B 06/14/11 14:57 Radium 228 (Dissolved) 10 1 10.3 92.9 74.9 - 122

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

Sample ID	RunNo: 71236	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1105282-001AMS 06/14/11 14:57 Radium 228 (Dissolved) 13 1 10.3 2 99.7 48.4 - 167

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

Sample ID	RunNo: 71236	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1105282-002ADUP 06/14/11 14:57 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: S1105252
Project: Reno Creek Project

Date: 7/27/2011
Report ID: S1105252003
(Replaces S1105252002)

Radium 226 by SM 7500

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

Sample ID	RunNo: 71079	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-143	06/07/11 11:36	Radium 226 (Dissolved)	ND	0.2					

Sample ID	RunNo: 71121	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-151	06/15/11 9:26	Radium 226 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 71079	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-143	06/07/11 11:36	Radium 226 (Dissolved)	5.0	0.2	5		100	62.5 - 125	

Sample ID	RunNo: 71121	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-151	06/15/11 0:00	Radium 226 (Suspended)	3.8	0.2	5.88		65.3	62.5 - 125	

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

Sample ID	RunNo: 71079	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105286-001CMS	06/07/11 18:39	Radium 226 (Dissolved)	74.0	0.2	5	68.9	102	41.6 - 146	

Sample ID	RunNo: 71121	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105253-001FMS	06/15/11 9:26	Radium 226 (Suspended)	4.1	0.2	5	ND	82.7	41.6 - 146	

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

Sample ID	RunNo: 71079	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105286-002CDUP	06/07/11 18:39	Radium 226 (Dissolved)	ND	0.2	ND			20	

Sample ID	RunNo: 71121	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105253-002EDUP	06/15/11 9:26	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: S1105252
Project: Reno Creek Project

Date: 7/27/2011
Report ID: S1105252003
 (Replaces S1105252002)

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

Sample ID	RunNo: 70887	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-144	06/07/11 8:50	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 71145	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-152	06/13/11 8:51	Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 70887	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-144	06/07/11 8:50	Thorium 230 (Dissolved)	12	0.2	12		97.5	67.1 - 134	

Sample ID	RunNo: 71145	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-152	06/13/11 8:51	Thorium 230 (Suspended)	14	0.2	12		114	67.1 - 134	

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

Sample ID	RunNo: 70887	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105253-001FDUP	06/07/11 8:50	Thorium 230 (Dissolved)	ND	0.2	ND			20	

Sample ID	RunNo: 71145	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105324-001GDUP	06/13/11 8:51	Thorium 230 (Suspended)	ND	0.2	ND			20	

Radon 222 by SM7500-RNSample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 70682	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R70682	05/18/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 70682	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R70682	05/18/11 0:00	Radon-222	22100	100	22500		98.2	75 - 125	L

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

Sample ID	RunNo: 70682	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105252-001B	05/18/11 0:00	Radon-222	ND	50	ND			20	L

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

Sample ID	RunNo: 70281	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	05/20/11 11:39	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 70281	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	05/20/11 11:42	Silica as SiO2	2.2	0.1	2.14		103	85 - 115	

Qualifiers:

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1105252
Project: Reno Creek Project

Date: 7/27/2011
Report ID: S1105252003
 (Replaces S1105252002)

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

Sample ID	RunNo: 70382	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	05/20/11 11:10	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 70382	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	05/20/11 11:15	Total Dissolved Solids (180)	230	10	226		100	90 - 110	

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

Sample ID	RunNo: 70382	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105262-004B	05/20/11 12:20	Total Dissolved Solids (180)	6680	10	6670	0.150		20	

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

Sample ID	RunNo: 70334	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK 5/23 TOT -5145	05/23/11 15:57	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 70334	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS 5/23 TOT -5145	05/23/11 16:00	Iron	0.47	0.05	0.5		93.6	85 - 115	
		Manganese	0.19	0.02	0.2		94.1	85 - 115	

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

Sample ID	RunNo: 70334	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105252-001FSD	05/23/11 16:11	Iron	0.62	0.05	0.5	0.18	87.6	70 - 130	
		Manganese	0.90	0.02	0.2	0.71	93.2	70 - 130	

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

Sample ID	RunNo: 70334	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1105252-001FS	05/23/11 16:09	Gold	ND	0.01	ND			20	
		Iron	0.55	0.05	0.62	11.9		20	
		Manganese	0.78	0.02	0.90	12.3		20	

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

Sample ID	RunNo: 70334	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105245-001FD	05/23/11 16:04	Iron	0.10	0.05	0.10	2.81		20	
		Manganese	0.30	0.02	0.29	2.15		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: S1105252
Project: Reno Creek Project

Date: 7/27/2011
Report ID: S1105252003
(Replaces S1105252002)

Suspended Natural Uranium

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

Sample ID	RunNo: 70440	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	05/25/11 11:04	Uranium Suspended	0.0999	0.0003	0.1		99.9	85 - 115	

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

Sample ID	RunNo: 70440	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105245-001HS	05/25/11 16:53	Uranium Suspended	1.11	0.0003	1.1	ND	101	70 - 130	

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

Sample ID	RunNo: 70440	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1105245-001HMSD	05/25/11 17:05	Uranium Suspended	1.08	0.0003	1.11	2.55	98.0	20	

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

Sample ID	RunNo: 70440	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105245-001HD	05/25/11 16:49	Uranium Suspended	ND	0.0003	ND			20	

pH Water

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

Sample ID	RunNo: 70230	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	05/19/11 15:00	pH	8.5	0.1	8.63		98.8	90 - 110	

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

Sample ID	RunNo: 70230	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105270-001B	05/19/11 16:28	pH	8.2	0.1	8.1	1.40		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
 1873 Terra Ave.
 Sheridan, WY 82801
 (307) 682-8845

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08281

- CHAIN OF CUSTODY RECORD -

Client Name: **AUC LLC**
 Report Address: **pcavendor@auc-llc.com; mickerson@reccorp.com; jshriver@reccorp.com**
 Invoice Address: **AUC LLC 951 W. 2nd Ct. Ste 395 Casper WY 82609**
 Project Identification: **Reno Creek Project**
 Contact Name: **Traci Nickerson**
 Email: **tracnickerson@reccorp.com**
 Phone: **307-265-0696**
 Purchase Order #: **Quote #**
 Sampler (Signature/Printed): **Traci Nickerson 265-0696**
 Telephone #:

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	ANALYSES / PARAMETERS	REMARKS
1							See Attached Table 1 (4,14, Guide 8, Radon 222)	
2	51105252 ⁰¹	5/14/11	12:35	UMY-002-110517 W 13 X			See Attached Table 2 (Air Particulate)	Groundwater
3							See Attached Table 3 (Vegetation)	
4							See Attached Table 4 (Sediment)	
5							See Attached Table 5 (Soil)	
6							See Attached Table 8 WYDES Discharge	
7							See Attached Table 9 (Blanks)	
8								
9								
10								
11								
12								
13								
14								

LAB COMMENTS: **5.14**
 Relinquished By (Signature/Printed): **Traci Nickerson**
 DATE: **5/17/11** TIME: **10:31**
 Received By (Signature/Printed): **Robby Boop**
 DATE: **5.19.11** TIME: **10:26**

SHIPPING INFO: UPS Fed Express US Mail Hand Carried Other

MATRIX CODES: Water Soil Solid Trip Blank Other

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

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

ADDITIONAL REMARKS: