



Wednesday, October 19, 2011

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

RE: Reno Creek Project
Orde

r No.: S1109157

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples OM2-002-110908 on September 8, 2011.

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

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

Sincerely,

Lacey Ketron
Project Manager

xc: File
Encl.



Date: 10/19/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1109157

CASE NARRATIVE
Report ID: S1109157001

Sample OM2-002-110908 was received on September 8, 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

- S1109145-003 - Dissolved Metals/Mercury - RPD outside accepted recovery limits
- MB-R74786 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- LCS-R74786 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- S1109157-001 - 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 10/19/2011
Report ID S1109157001

ProjectName: Reno Creek Project
Lab ID: S1109157-001
ClientSample ID: OM2-002-110908
COC: RC 08335

WorkOrder: S1109157
CollectionDate: 9/8/2011 1:15:00 PM
DateReceived: 9/8/2011 4:18:00 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

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401
ProjectName: Reno Creek Project
Lab ID: S1109157-001
ClientSample ID: OM2-002-110908
COC: RC 08335

Date Reported: 10/19/2011
Report ID: S1109157001
WorkOrder: S1109157
CollectionDate: 9/8/2011 1:15:00 PM
DateReceived: 9/8/2011 4:18:00 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.).

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: S1109157-001
ClientSample ID: OM2-002-110908
COC: RC 08335

Date Reported 10/19/2011
Report ID S1109157001
WorkOrder: S1109157
CollectionDate: 9/8/2011 1:15:00 PM
DateReceived: 9/8/2011 4:18:00 PM
FieldSampler: TN
Matrix: Water

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

These results apply only to the samples tested.

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



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401
ProjectName: Reno Creek Project
Lab ID: S1109157-001
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Date Reported: 10/19/2011
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CollectionDate: 9/8/2011 1:15:00 PM
DateReceived: 9/8/2011 4:18:00 PM
FieldSampler: TN
Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Dissolved, Radionuclides - Suspended, and Radionuclides - Total.

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1109157
Project: Reno Creek Project

Date: 10/19/2011
Report ID: S1109157001

Alkalinity

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

Sample ID	RunNo: 74366	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/09/11 15:41	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 74366	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/09/11 15:31	Alkalinity, Total (As CaCO3)	595	5	601		99.1	90 - 110	

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

Sample ID	RunNo: 74366	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109137-009AD	09/09/11 18:29	Alkalinity, Bicarbonate as HCO3	638	5	634	0.651		20	
		Alkalinity, Carbonate as CO3	ND	5	ND			20	
		Alkalinity, Total (As CaCO3)	523	5	520	0.651		20	

Conductivity

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 74366	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/09/11 15:41	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 74366	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/09/11 15:31	Electrical Conductivity	1080	5	1120		96.5	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 74366	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109137-009AD	09/09/11 18:29	Electrical Conductivity	1840	5	1840	0.326		20	

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1109157
Project: Reno Creek Project

Date: 10/19/2011
Report ID: S1109157001

Dissolved Mercury by EPA 245.1 - Water

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

Sample ID	RunNo: 74493	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	09/13/11 9:35	Mercury	ND	0.001					

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

Sample ID	RunNo: 74493	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	09/13/11 9:33	Mercury	0.002	0.001	0.002		94.3	85 - 115	

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

Sample ID	RunNo: 74493	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109145-003B	09/13/11 11:20	Mercury	0.0020	0.0001	0.00244	ND	78.0	70 - 130	

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

Sample ID	RunNo: 74493	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109145-003B	09/13/11 11:22	Mercury	0.0025	0.0001	0.0020	26.3	99.5	20	R

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

Sample ID	RunNo: 74493	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109145-003B	09/13/11 11:19	Mercury	ND	0.0001	ND			20	

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1109157
Project: Reno Creek Project

Date: 10/19/2011
Report ID: S1109157001

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

Sample ID	RunNo: 74449	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	09/12/11 11:29	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: 74449	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	09/12/11 11:32	Aluminum	1.0	0.1	1		100	85 - 115	
		Boron	1.0	0.1	1		96.4	85 - 115	
		Chromium	1.00	0.01	1		99.6	85 - 115	
		Iron	1.00	0.05	1		99.7	85 - 115	
		Manganese	1.05	0.02	1		105	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: 74449	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109157-001DS	09/12/11 12:04	Aluminum	0.6	0.1	0.5	ND	104	70 - 130	
		Boron	0.6	0.1	0.5	ND	99.8	70 - 130	
		Chromium	0.52	0.01	0.5	ND	104	70 - 130	
		Iron	0.52	0.05	0.5	ND	103	70 - 130	
		Manganese	0.53	0.02	0.5	ND	107	70 - 130	
		Nickel	0.52	0.01	0.5	ND	104	70 - 130	
		Zinc	0.53	0.01	0.5	ND	105	70 - 130	

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

Sample ID	RunNo: 74449	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109157-001DSD	09/12/11 12:06	Aluminum	0.6	0.1	0.6	13.1	119	20	
		Boron	0.6	0.1	0.6	14.1	116	20	
		Chromium	0.60	0.01	0.52	15.2	120	20	
		Iron	0.59	0.05	0.52	12.8	116	20	
		Manganese	0.60	0.02	0.53	13.1	121	20	
		Nickel	0.59	0.01	0.52	13.1	118	20	
		Zinc	0.61	0.01	0.53	15.1	121	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: S1109157
Project: Reno Creek Project

Date: 10/19/2011
Report ID: S1109157001

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 74449	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109156-001DD	09/12/11 11:59	Aluminum	ND	0.1	ND			20	
		Boron	ND	0.1	ND			20	
		Chromium	ND	0.01	ND			20	
		Iron	ND	0.05	ND			20	
		Manganese	ND	0.02	ND			20	
		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: 74359	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	09/09/11 12:24	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: 74359	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	09/09/11 12:20	Arsenic	0.108	0.005	0.1		108	85 - 115	
		Barium	ND	0.5	0.1		107	85 - 115	
		Cadmium	0.110	0.002	0.1		110	85 - 115	
		Copper	0.10	0.01	0.1		103	85 - 115	
		Lead	0.10	0.02	0.1		103	85 - 115	
		Molybdenum	0.11	0.02	0.1		109	85 - 115	
		Selenium	0.107	0.005	0.1		107	85 - 115	
		Uranium	0.103	0.001	0.1		103	85 - 115	
		Vanadium	0.10	0.02	0.1		104	85 - 115	

- 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: S1109157
Project: Reno Creek Project

Date: 10/19/2011
Report ID: S1109157001

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

Sample ID	RunNo: 74359	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109152-001DS	09/09/11 19:20	Arsenic	1.19	0.005	1.1	0.006	107	70 - 130	
		Barium	1.2	0.5	1.1	ND	107	70 - 130	
		Cadmium	1.20	0.002	1.1	ND	109	70 - 130	
		Copper	1.12	0.01	1.1	ND	102	70 - 130	
		Lead	1.14	0.02	1.1	ND	103	70 - 130	
		Molybdenum	1.18	0.02	1.1	ND	107	70 - 130	
		Selenium	1.20	0.005	1.1	ND	109	70 - 130	
		Uranium	1.17	0.001	1.1	0.020	105	70 - 130	
		Vanadium	1.13	0.02	1.1	ND	102	70 - 130	

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

Sample ID	RunNo: 74359	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109152-001DMSD	09/09/11 19:24	Arsenic	1.19	0.005	1.19	0.277	108	20	
		Barium	1.2	0.5	1.2	0.668	106	20	
		Cadmium	1.18	0.002	1.20	1.29	107	20	
		Copper	1.12	0.01	1.12	0.194	102	20	
		Lead	1.14	0.02	1.14	0.469	104	20	
		Molybdenum	1.20	0.02	1.18	1.21	109	20	
		Selenium	1.20	0.005	1.20	0.456	109	20	
		Uranium	1.17	0.001	1.17	0.236	105	20	
		Vanadium	1.13	0.02	1.13	0.352	102	20	

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

Sample ID	RunNo: 74359	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109152-001DD	09/09/11 19:08	Arsenic	0.006	0.005	0.006	1.94		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	0.020	0.001	0.020	0.616		20	
		Vanadium	ND	0.02	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: S1109157
Project: Reno Creek Project

Date: 10/19/2011
Report ID: S1109157001

Fluoride by SM 4500

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

Sample ID	RunNo: 74372	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/11/11 12:45	Fluoride	ND	0.1					

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

Sample ID	RunNo: 74372	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/11/11 12:35	Fluoride	3.1	0.1	2.96		103	90 - 110	

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

Sample ID	RunNo: 74372	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109148-008ASPK	09/11/11 14:10	Fluoride	2.4	0.1	2.5	ND	93.5	80 - 120	

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

Sample ID	RunNo: 74372	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109159-002AD	09/11/11 15:05	Fluoride	ND	0.1	ND			20	

Gross Alpha, Beta by SM 7110B

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

Sample ID	RunNo: 75847	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-279	10/11/11 11:23	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 75847	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-279A	10/11/11 11:23	Gross Alpha (Dissolved)	86	2	73.6		117	83 - 133	

Sample ID	RunNo: 75847	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-279B	10/11/11 11:23	Gross Beta (Dissolved)	136	3	126		108	88 - 115	

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

Sample ID	RunNo: 75847	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109122-001FMSA	10/11/11 11:23	Gross Alpha (Dissolved)	106	2	73.6	9	131	48 - 153	
		Gross Beta (Dissolved)	162	3	126	18	115	60 - 140	

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

Sample ID	RunNo: 75847	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109156-001FDUP	10/11/11 18:59	Gross Alpha (Dissolved)	ND	5	ND			20	
		Gross Beta (Dissolved)	74.2	7.00	79.0	6.06		20	

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ANALYTICAL QC SUMMARY REPORT

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Work Order: S1109157
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Report ID: S1109157001

Anions by ION Chromatography

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

Sample ID	RunNo: 74469	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/12/11 10:36	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 74469	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	09/12/11 10:49	Chloride	31	1	30		102	90 - 110	
		Sulfate	146	1	150		97.7	90 - 110	

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

Sample ID	RunNo: 74469	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108615-001ASPK	09/13/11 2:51	Chloride	6	1	5	ND	118	80 - 120	
		Sulfate	61	1	40	24	92.6	80 - 120	

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

Sample ID	RunNo: 74469	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108615-001AD	09/13/11 2:38	Chloride	ND	1	ND			20	
		Sulfate	24	1	24	0.381		20	

- Qualifiers:**
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**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1109157
Project: Reno Creek Project

Date: 10/19/2011
Report ID: S1109157001

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

Sample ID	RunNo: 74448	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	09/12/11 11:29	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 74448	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	09/12/11 11:34	Calcium	41	1	40		102	85 - 115	
		Magnesium	40	1	40		100	85 - 115	
		Potassium	40	1	40		99.0	85 - 115	
		Sodium	38	1	40		95.7	85 - 115	

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

Sample ID	RunNo: 74448	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109157-001AS	09/12/11 12:04	Calcium	60	1	50	5	110	70 - 130	
		Magnesium	54	1	50	ND	107	70 - 130	
		Potassium	62	1	50	9	106	70 - 130	
		Sodium	127	1	50	76	101	70 - 130	

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

Sample ID	RunNo: 74448	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109157-001ASD	09/12/11 12:06	Calcium	67	1	60	12.3	124	20	
		Magnesium	62	1	54	14.7	123	20	
		Potassium	69	1	62	10.2	118	20	
		Sodium	133	1	127	5.28	115	20	

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

Sample ID	RunNo: 74448	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109156-001AD	09/12/11 11:59	Calcium	135	1	137	1.67		20	
		Magnesium	ND	1	ND			20	
		Potassium	93	1	95	2.08		20	
		Sodium	255	1	257	1.06		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: S1109157
Project: Reno Creek Project

Date: 10/19/2011
Report ID: S1109157001

Nitrogen, Ammonia (as N)

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

Sample ID	RunNo: 74709	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/16/11 17:34	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 74709	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	09/16/11 17:36	Nitrogen, Ammonia (As N)	10.2	0.1	10		102	90 - 110	

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

Sample ID	RunNo: 74709	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109157-001C	09/16/11 18:36	Nitrogen, Ammonia (As N)	9.2	0.1	10	ND	92.2	80 - 120	

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

Sample ID	RunNo: 74709	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109157-001C	09/16/11 18:35	Nitrogen, Ammonia (As N)	ND	0.1	ND			20	

Nitrogen, Nitrate-Nitrite (as N)

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

Sample ID	RunNo: 74701	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	09/17/11 15:48	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 74701	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	09/17/11 15:50	Nitrogen, Nitrate-Nitrite (as N)	2.4	0.1	2.31		104	90 - 110	

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

Sample ID	RunNo: 74701	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109157-001C	09/17/11 16:23	Nitrogen, Nitrate-Nitrite (as N)	9.8	0.1	10	ND	98.2	80 - 120	

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

Sample ID	RunNo: 74701	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109157-001C	09/17/11 16:22	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1	ND			20	

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1109157
Project: Reno Creek Project

Date: 10/19/2011
Report ID: S1109157001

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

Sample ID	RunNo: 75583	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-272	10/10/11 15:29	Lead 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 75584	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-272	10/10/11 12:50	Polonium 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 75696	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-272	10/11/11 16:16	Lead 210 (Suspended)	ND	1					
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Sample ID	RunNo: 75697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-272	10/11/11 12:40	Polonium 210 (Suspended)	ND	1					
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Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 75583	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-272	10/10/11 15:29	Lead 210 (Dissolved)	15	1	12.9		113	67.6 - 131	
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Sample ID	RunNo: 75584	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-272 PO	10/10/11 12:50	Polonium 210 (Dissolved)	3	1	2.42		119	35.1 - 175	
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Sample ID	RunNo: 75696	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-272	10/11/11 16:16	Lead 210 (Suspended)	14	1	12.9		108	60.3 - 141	
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Sample ID	RunNo: 75697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-272	10/11/11 12:40	Polonium 210 (Suspended)	12	1	12.9		93.2	48.6 - 156	
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Sample Type **MS** Units: pCi/L

Sample ID	RunNo: 75583	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108611-001FMS	10/10/11 15:29	Lead 210 (Dissolved)	20	1	12.9	6	103	66 - 133	
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Sample ID	RunNo: 75584	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108611-001FMS	10/10/11 12:50	Polonium 210 (Dissolved)	9	1	12.9	ND	71.4	20.9 - 160	
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Sample ID	RunNo: 75696	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108611-001FMS	10/11/11 16:16	Lead 210 (Suspended)	22	1	12.9	8	109	62.4 - 132	
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Sample ID	RunNo: 75697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108611-001FMS	10/11/11 12:40	Polonium 210 (Suspended)	14	1	12.9	3	82.1	28 - 173	
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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: S1109157
Project: Reno Creek Project

Date: 10/19/2011
Report ID: S1109157001

Lead 210 and Polonium 210

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

Sample ID	RunNo: 75583	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108582-001FDUP 10/10/11 15:29 Lead 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo: 75584	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108582-001FDUP 10/10/11 12:50 Polonium 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo: 75696	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1109170-002EDUP 10/12/11 9:01 Lead 210 (Suspended) ND 1 ND 20

Sample ID	RunNo: 75697	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1109170-002EDUP 10/11/11 14:56 Polonium 210 (Suspended) ND 1 ND 20

Radium 228

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

Sample ID	RunNo: 75719	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-280 10/12/11 17:30 Radium 228 (Dissolved) ND 1

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

Sample ID	RunNo: 75719	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-280 10/12/11 17:30 Radium 228 (Dissolved) 9 1 9.92 95.5 74.9 - 122

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

Sample ID	RunNo: 75719	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1109156-001FMS 10/12/11 17:30 Radium 228 (Dissolved) 9 1 9.92 ND 86.3 48.4 - 167

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

Sample ID	RunNo: 75719	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1109157-001FDUP 10/12/11 17:30 Radium 228 (Dissolved) ND 1 1 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: S1109157
Project: Reno Creek Project

Date: 10/19/2011
Report ID: S1109157001

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

Sample ID	RunNo: 75128	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-264	09/28/11 9:29	Radium 226 (Dissolved)	ND	0.2					

Sample ID	RunNo: 75347	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-271	10/03/11 18:27	Radium 226 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 75128	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-264	09/28/11 9:29	Radium 226 (Dissolved)	5.0	0.2	5.06		98.6	62.5 - 125	

Sample ID	RunNo: 75347	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-271	10/03/11 18:27	Radium 226 (Suspended)	4.8	0.2	5.06		93.9	56.4 - 132	

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

Sample ID	RunNo: 75128	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109169-001EMS	09/28/11 0:00	Radium 226 (Dissolved)	9.4	0.2	5.06	4.8	90.6	41.6 - 146	

Sample ID	RunNo: 75347	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109169-002EMS	10/03/11 18:27	Radium 226 (Suspended)	4.8	0.2	5.06	ND	95.5	51.4 - 135	

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

Sample ID	RunNo: 75128	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109165-001EDUP	09/28/11 0:00	Radium 226 (Dissolved)	0.3	0.2	0.3	14.7		20	

Sample ID	RunNo: 75347	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109162-001EDUP	10/03/11 18:27	Radium 226 (Suspended)	0.8	0.2	0.7	19.8		20	

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

Sample ID	RunNo: 75688	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-277	10/10/11 9:11	Thorium 230 (Dissolved)	ND	0.2					
		Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 75688	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-277	10/10/11 9:11	Thorium 230 (Dissolved)	12	0.2	12		98.8	67.1 - 134	
		Thorium 230 (Suspended)	12	0.2	12		98.8	69.2 - 127	

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

Sample ID	RunNo: 75688	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109090-001FDUP	10/11/11 9:06	Thorium 230 (Suspended)	ND	0.2	ND			20	

Qualifiers:

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1109157
Project: Reno Creek Project

Date: 10/19/2011
Report ID: S1109157001

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

Sample ID	RunNo: 74786	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R74786	09/09/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 74786	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R74786	09/09/11 0:00	Radon-222	23400	100	22500		104	75 - 125	L

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

Sample ID	RunNo: 74786	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109157-001A	09/09/11 0:00	Radon-222	310	50	340	7.37		20	L

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

Sample ID	RunNo: 74450	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	09/12/11 11:29	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 74450	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	09/12/11 11:32	Silica as SiO2	2.2	0.1	2.14		102	85 - 115	

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

Sample ID	RunNo: 74450	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109156-001DD	09/12/11 11:59	Silica as SiO2	5.7	0.1	5.9	3.08		20	

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

Sample ID	RunNo: 74562	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	09/13/11 11:10	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 74562	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	09/13/11 11:15	Total Dissolved Solids (180)	220	10	226		99.1	90 - 110	

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

Sample ID	RunNo: 74562	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109165-001A	09/13/11 12:45	Total Dissolved Solids (180)	2660	10	2690	1.12		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: S1109157
Project: Reno Creek Project

Date: 10/19/2011
Report ID: S1109157001

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

Sample ID	RunNo: 74564	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-5455	09/14/11 11:04	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 74564	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-5455	09/14/11 11:06	Iron	0.48	0.05	0.5		95.0	85 - 115	
		Manganese	0.19	0.02	0.2		97.1	85 - 115	

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

Sample ID	RunNo: 74564	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109157-001ES	09/14/11 11:15	Iron	0.66	0.05	0.5	0.23	86.4	70 - 130	
		Manganese	0.20	0.02	0.2	ND	95.0	70 - 130	

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

Sample ID	RunNo: 74564	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109156-001ED	09/14/11 11:10	Iron	0.07	0.05	0.08	13.7		20	
		Manganese	0.02	0.02	0.02	1.64		20	

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

Sample ID	RunNo: 74839	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	09/20/11 14:11	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 74839	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	09/20/11 14:07	Uranium Suspended	0.0981	0.0003	0.1		98.1	85 - 115	

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

Sample ID	RunNo: 74839	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109169-002ES	09/20/11 19:39	Uranium Suspended	1.10	0.0003	1.1	ND	99.9	70 - 130	

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

Sample ID	RunNo: 74839	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109169-002EMSD	09/20/11 19:43	Uranium Suspended	1.09	0.0003	1.10	1.19	98.7	20	

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

Sample ID	RunNo: 74839	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109169-002ED	09/20/11 19:35	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: S1109157
Project: Reno Creek Project

Date: 10/19/2011
Report ID: S1109157001

pH Water

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

Sample ID	RunNo: 74366	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/10/11 5:13	pH	8.8	0.1	8.48		103	90 - 110	

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

Sample ID	RunNo: 74366	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109137-009AD	09/09/11 18:29	pH	7.7	0.1	7.7	0.103		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

