



Friday, July 01, 2011

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

RE: Reno Creek Project
Orde

r No.: S1106021

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples PZM16-002-110601 on June 2, 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: 7/1/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1106021

CASE NARRATIVE
Report ID: S1106021001

Sample PZM16-002-110601 was received on June 1, 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

- S1106054-001 - Radiochemistry/Polonium 210 (Dissolved) - RPD outside accepted recovery limits
- S1106053-001 - Radiochemistry/Lead 210 (Suspended) - RPD outside accepted recovery limits
- S1106021-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- LCS-R71106 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- MB-R71106 - 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 7/1/2011
Report ID S1106021001

ProjectName: Reno Creek Project
Lab ID: S1106021-001
ClientSample ID: PZM16-002-110601
COC: RC 08278

WorkOrder: S1106021
CollectionDate: 6/1/2011 11:50:00 AM
DateReceived: 6/2/2011 11:39:00 AM
FieldSampler: TN
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
Field						
pH Reading 1	10.10	s.u.			Field	6/1/2011 11:50:00 AM
pH Reading 2	10.07	s.u.			Field	6/1/2011 11:50:00 AM
pH Reading 3	10.08	s.u.			Field	6/1/2011 11:50:00 AM
Conductivity Reading 1	1333	µmhos/cm			Field	6/1/2011 11:50:00 AM
Conductivity Reading 2	1332	µmhos/cm			Field	6/1/2011 11:50:00 AM
Conductivity Reading 3	1330	µmhos/cm			Field	6/1/2011 11:50:00 AM
Turbidity Reading 1	6.0	NTU			Field	6/1/2011 11:50:00 AM
Turbidity Reading 2	3.1	NTU			Field	6/1/2011 11:50:00 AM
Turbidity Reading 3	2.1	NTU			Field	6/1/2011 11:50:00 AM
Dissolved Oxygen Reading 1	0.17	mg/L			Field	6/1/2011 11:50:00 AM
Dissolved Oxygen Reading 2	0.18	mg/L			Field	6/1/2011 11:50:00 AM
Dissolved Oxygen Reading 3	0.19	mg/L			Field	6/1/2011 11:50:00 AM
Temperature Reading 1	11.63	°C			Field	6/1/2011 11:50:00 AM
Temperature Reading 2	11.60	°C			Field	6/1/2011 11:50:00 AM
Temperature Reading 3	11.59	°C			Field	6/1/2011 11:50:00 AM
Oxygen Reduction Potential Reading	-117.2	mV			Field	6/1/2011 11:50:00 AM
Oxygen Reduction Potential Reading	-117.6	mV			Field	6/1/2011 11:50:00 AM
Oxygen Reduction Potential Reading	-117.6	mV			Field	6/1/2011 11:50:00 AM
Purge Rate Reading 1	300.0	ml/min			Field	6/1/2011 11:50:00 AM
Purge Rate Reading 2	300.0	ml/min			Field	6/1/2011 11:50:00 AM
Purge Rate Reading 3	300.0	ml/min			Field	6/1/2011 11:50:00 AM
Water Level Reading 1	N/A	Ft			Field	6/1/2011 11:50:00 AM
Water Level Reading 2	N/A	Ft			Field	6/1/2011 11:50:00 AM
Water Level Reading 3	137.25	Ft			Field	6/1/2011 11:50:00 AM

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

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

Reviewed by: 
Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported: 7/1/2011
Report ID: S1106021001

ProjectName: Reno Creek Project
Lab ID: S1106021-001
ClientSample ID: PZM16-002-110601
COC: RC 08278

WorkOrder: S1106021
CollectionDate: 6/1/2011 11:50:00 AM
DateReceived: 6/2/2011 11:39:00 AM
FieldSampler: TN
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	190	mg/L		5	SM 2320B	6/2/2011 4:20:57 PM	AMB
Alkalinity, Bicarbonate as HCO3	232	mg/L		5	SM 2320B	6/2/2011 4:20:57 PM	AMB
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	6/2/2011 4:20:57 PM	AMB
Chloride	4	mg/L		1	EPA 300.0	6/3/2011 7:09:00 PM	KO
Fluoride	ND	mg/L		0.1	SM 4500FC	6/2/2011 4:20:57 PM	AMB
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	6/10/2011 3:20:00 PM	MEL
Sulfate	492	mg/L		1	EPA 300.0	6/3/2011 7:09:00 PM	KO
Calcium	108	mg/L		1	EPA 200.7	6/3/2011 12:16:16 PM	DG
Magnesium	23	mg/L		1	EPA 200.7	6/3/2011 12:16:16 PM	DG
Potassium	8	mg/L		1	EPA 200.7	6/3/2011 12:16:16 PM	DG
Sodium	166	mg/L		1	EPA 200.7	6/3/2011 12:16:16 PM	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	6/8/2011 4:52:00 PM	MEL
Silica as SiO2	10	mg/L		1	EPA 200.7	6/3/2011 12:16:16 PM	DG
General Parameters							
pH	8.0	s.u.		0.1	SM 4500 H B	6/2/2011 4:20:57 PM	AMB
Electrical Conductivity	1140	µmhos/cm		5	SM 2510B	6/2/2011 4:20:57 PM	AMB
Total Dissolved Solids (180)	1030	mg/L		10	SM 2540	6/3/2011 10:20:00 AM	JF
Data Quality							
Cation Sum	14.74	meq/L		0.01	SM 1030E	7/1/2011 10:08:26 AM	LJK
Anion Sum	14.14	meq/L		0.01	SM 1030E	7/1/2011 10:08:26 AM	LJK
Cation-Anion Balance (± 5%)	2.09	%		0.01	SM 1030E	7/1/2011 10:08:26 AM	LJK
Solids, Total Dissolved (Calc)	920	mg/L		10	SM 1030E	7/1/2011 10:08:26 AM	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.12	dec. %		0.01	Calculation	6/14/2011 10:12:33 AM	LJK

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

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

Reviewed by: 
Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported 7/1/2011
Report ID S1106021001

ProjectName: Reno Creek Project
Lab ID: S1106021-001
ClientSample ID: PZM16-002-110601
COC: RC 08278

WorkOrder: S1106021
CollectionDate: 6/1/2011 11:50:00 AM
DateReceived: 6/2/2011 11:39:00 AM
FieldSampler: TN
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	6/3/2011 12:16:16 PM	DG
Arsenic	ND	mg/L		0.001	EPA 200.8	6/2/2011 1:33:14 PM	MS
Barium	ND	mg/L		0.1	EPA 200.8	6/2/2011 1:33:14 PM	MS
Boron	ND	mg/L		0.1	EPA 200.7	6/3/2011 12:16:16 PM	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	6/2/2011 1:33:14 PM	MS
Chromium	ND	mg/L		0.01	EPA 200.7	6/3/2011 12:16:16 PM	DG
Copper	ND	mg/L		0.01	EPA 200.8	6/2/2011 1:33:14 PM	MS
Iron	ND	mg/L		0.05	EPA 200.7	6/3/2011 12:16:16 PM	DG
Lead	ND	mg/L		0.01	EPA 200.8	6/2/2011 1:33:14 PM	MS
Manganese	0.07	mg/L		0.01	EPA 200.7	6/3/2011 12:16:16 PM	DG
Mercury	ND	mg/L		0.001	EPA 245.1	6/7/2011 1:28:47 PM	VR
Molybdenum	ND	mg/L		0.01	EPA 200.8	6/2/2011 1:33:14 PM	MS
Nickel	ND	mg/L		0.05	EPA 200.7	6/3/2011 12:16:16 PM	DG
Selenium	ND	mg/L		0.005	EPA 200.8	6/2/2011 1:33:14 PM	MS
Uranium	0.296	mg/L		0.0003	EPA 200.8	6/2/2011 1:33:14 PM	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	6/2/2011 1:33:14 PM	MS
Zinc	0.01	mg/L		0.01	EPA 200.7	6/3/2011 12:16:16 PM	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	6/7/2011 9:52:44 AM	MS
Metals - Total							
Iron	0.05	mg/L		0.05	EPA 200.7	6/7/2011 4:10:27 PM	DG
Manganese	0.08	mg/L		0.01	EPA 200.7	6/7/2011 4:10:27 PM	DG

These results apply only to the samples tested.

RL - Reporting Limit

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

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

Reviewed by: 
Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported: 7/1/2011
Report ID: S1106021001

ProjectName: Reno Creek Project
Lab ID: S1106021-001
ClientSample ID: PZM16-002-110601
COC: RC 08278

WorkOrder: S1106021
CollectionDate: 6/1/2011 11:50:00 AM
DateReceived: 6/2/2011 11:39:00 AM
FieldSampler: TN
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	243	pCi/L		2	SM 7110B	6/20/2011 10:27:53 AM	SH
Gross Alpha Precision (±)	8.8	pCi/L			SM 7110B	6/20/2011 10:27:53 AM	SH
Gross Beta	72.2	pCi/L		3	SM 7110B	6/20/2011 10:27:53 AM	SH
Gross Beta Precision (±)	3.7	pCi/L			SM 7110B	6/20/2011 10:27:53 AM	SH
Lead 210	5.5	pCi/L		1	OTW01	6/19/2011 5:40:19 PM	SH
Lead 210 Precision (±)	0.5	pCi/L			OTW01	6/19/2011 5:40:19 PM	SH
Polonium 210	ND	pCi/L		1	OTW01	6/20/2011 9:52:19 AM	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	6/20/2011 9:52:19 AM	SH
Radium 226	3.5	pCi/L		0.2	SM 7500-Ra B	6/15/2011 9:26:00 AM	SH
Radium 226 Precision (±)	0.2	pCi/L			SM 7500-Ra B	6/15/2011 9:26:00 AM	SH
Radium 228	1.6	pCi/L		1	Ra-05	6/27/2011 4:26:00 PM	SH
Radium 228 Precision (±)	1.3	pCi/L			Ra-05	6/27/2011 4:26:00 PM	SH
Thorium 230	ND	pCi/L		0.2	ACW10	6/15/2011 1:20:00 PM	SH
Thorium 230 Precision (±)	NA	pCi/L			ACW10	6/15/2011 1:20:00 PM	SH
Radionuclides - Suspended							
Lead 210	2.4	pCi/L		1	OTW01	6/21/2011 7:08:50 PM	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	6/21/2011 7:08:50 PM	SH
Polonium 210	ND	pCi/L		1	OTW01	6/21/2011 5:51:05 PM	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	6/21/2011 5:51:05 PM	SH
Radium 226	ND	pCi/L		0.2	SM 7500-Ra B	6/9/2011 11:36:54 AM	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500-Ra B	6/9/2011 11:36:54 AM	SH
Thorium 230	ND	pCi/L		0.2	ACW10	6/20/2011 8:09:00 AM	SH
Thorium 230 Precision (±)	NA	pCi/L			ACW10	6/20/2011 8:09:00 AM	SH
Radionuclides - Total							
Radon 222	2110	pCi/L	L	50	SM7500-RN	6/2/2011	LJK
Radon 222 Precision (±)	240	pCi/L	L		SM7500-RN	6/2/2011	LJK

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1106021
Project: Reno Creek Project

Date: 7/1/2011
Report ID: S1106021001

Alkalinity

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

Sample ID	RunNo: 70697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	06/02/11 15:47	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 70697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	06/02/11 15:39	Alkalinity, Total (As CaCO3)	594	5	607		97.8	90 - 110	

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

Sample ID	RunNo: 70697	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106036-007A	06/02/11 19:29	Alkalinity, Bicarbonate as HCO3	723	5	722	0.0961		20	
		Alkalinity, Total (As CaCO3)	593	5	592	0.0961		20	

Conductivity

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 70697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	06/02/11 15:47	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 70697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	06/02/11 15:39	Electrical Conductivity	964	5	1000		96.3	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 70697	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106036-007A	06/02/11 19:29	Electrical Conductivity	14400	5	14600	0.962		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: S1106021
Project: Reno Creek Project

Date: 7/1/2011
Report ID: S1106021001

Dissolved Mercury by EPA 245.1 - Water

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

Sample ID	RunNo: 70801	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	06/07/11 10:10	Mercury	ND	0.001					

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

Sample ID	RunNo: 70801	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	06/07/11 10:08	Mercury	0.002	0.001	0.002		103	85 - 115	

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

Sample ID	RunNo: 70801	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106008-005C	06/07/11 13:21	Mercury	0.003	0.001	0.00244	ND	104	70 - 130	

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

Sample ID	RunNo: 70801	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1106008-005C	06/07/11 13:23	Mercury	0.002	0.001	0.003	2.28	102	20	

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

Sample ID	RunNo: 70801	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106008-005C	06/07/11 13:19	Mercury	ND	0.001	ND	0		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: S1106021
Project: Reno Creek Project

Date: 7/1/2011
Report ID: S1106021001

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

Sample ID	RunNo: 70750	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	06/03/11 10:53	Aluminum	ND	0.1					
		Boron	ND	0.1					
		Chromium	ND	0.01					
		Gold	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: 70750	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	06/03/11 10:55	Aluminum	1.0	0.1	1		103	85 - 115	
		Boron	1.0	0.1	1		102	85 - 115	
		Chromium	1.02	0.01	1		102	85 - 115	
		Iron	1.01	0.05	1		101	85 - 115	
		Manganese	1.04	0.02	1		104	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: 70750	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106044-002BS	06/03/11 14:02	Aluminum	7.5	0.1	5.5	0.4	130	70 - 130	
		Boron	7.1	0.1	5.5	0.2	124	70 - 130	
		Chromium	6.69	0.01	5.5	ND	122	70 - 130	
		Iron	11.8	0.05	5.5	5.89	108	70 - 130	
		Manganese	16.7	0.02	5.5	11.8	89.2	70 - 130	
		Nickel	6.63	0.01	5.5	ND	121	70 - 130	
		Zinc	6.99	0.01	5.5	ND	127	70 - 130	

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

Sample ID	RunNo: 70750	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1106044-002BSD	06/03/11 14:04	Aluminum	7.0	0.1	7.5	6.93	120	20	
		Boron	6.6	0.1	7.1	5.99	116	20	
		Chromium	6.13	0.01	6.69	8.39	111	20	
		Iron	11.5	0.05	11.8	2.85	101	20	
		Manganese	16.5	0.02	16.7	1.14	85.8	20	
		Nickel	6.14	0.01	6.63	7.40	112	20	
		Zinc	6.40	0.01	6.99	8.37	116	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: S1106021
Project: Reno Creek Project

Date: 7/1/2011
Report ID: S1106021001

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 70750	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106032-001DD	06/03/11 12:25	Aluminum	ND	0.1	ND	0		20	
		Boron	ND	0.1	ND	0		20	
		Chromium	ND	0.01	ND	0		20	
		Iron	ND	0.05	ND	0		20	
		Manganese	0.03	0.02	0.03	0.791		20	
		Nickel	ND	0.01	ND	0		20	
		Zinc	ND	0.01	ND	0		20	

Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 70691	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	06/02/11 11:45	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: 70691	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	06/02/11 11:41	Arsenic	0.098	0.005	0.1		98.2	85 - 115	
		Barium	ND	0.5	0.1		99.9	85 - 115	
		Cadmium	0.100	0.002	0.1		99.5	85 - 115	
		Copper	0.09	0.01	0.1		94.1	85 - 115	
		Lead	0.10	0.02	0.1		95.8	85 - 115	
		Molybdenum	0.10	0.02	0.1		95.9	85 - 115	
		Selenium	0.101	0.005	0.1		101	85 - 115	
		Uranium	0.094	0.001	0.1		93.5	85 - 115	
		Vanadium	0.10	0.02	0.1		96.5	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: S1106021
Project: Reno Creek Project

Date: 7/1/2011
Report ID: S1106021001

Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 70691	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105464-001CS	06/02/11 12:10	Arsenic	3.30	0.005	1.1	1.97	121	70 - 130	
		Barium	1.3	0.5	1.1	ND	113	70 - 130	
		Cadmium	1.13	0.002	1.1	ND	103	70 - 130	
		Copper	1.28	0.01	1.1	0.22	96.3	70 - 130	
		Lead	1.07	0.02	1.1	ND	97.0	70 - 130	
		Molybdenum	1.20	0.02	1.1	0.10	100	70 - 130	
		Selenium	1.16	0.005	1.1	0.010	105	70 - 130	
		Uranium	1.06	0.001	1.1	0.002	96.2	70 - 130	
		Vanadium	1.09	0.02	1.1	ND	98.6	70 - 130	

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

Sample ID	RunNo: 70691	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1105464-001CMSD	06/02/11 12:14	Arsenic	3.27	0.005	3.30	1.02	118	20	
		Barium	1.3	0.5	1.3	2.11	110	20	
		Cadmium	1.10	0.002	1.13	2.70	99.8	20	
		Copper	1.26	0.01	1.28	1.82	94.2	20	
		Lead	1.05	0.02	1.07	2.00	95.1	20	
		Molybdenum	1.18	0.02	1.20	1.98	97.9	20	
		Selenium	1.15	0.005	1.16	1.11	104	20	
		Uranium	1.03	0.001	1.06	2.68	93.6	20	
		Vanadium	1.07	0.02	1.09	1.70	96.9	20	

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

Sample ID	RunNo: 70691	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106045-002BD	06/02/11 14:10	Arsenic	ND	0.005	ND	0		20	
		Barium	ND	0.5	ND	0		20	
		Cadmium	ND	0.002	ND	0		20	
		Copper	0.02	0.01	0.02	0.570		20	
		Lead	ND	0.02	ND	0		20	
		Molybdenum	ND	0.02	ND	0		20	
		Selenium	ND	0.005	ND	0		20	
		Uranium	0.001	0.001	0.001	3.35		20	
		Vanadium	ND	0.02	ND	0		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: S1106021
Project: Reno Creek Project

Date: 7/1/2011
Report ID: S1106021001

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

Sample ID	RunNo: 70697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	06/02/11 15:47	Fluoride	ND	0.1					

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

Sample ID	RunNo: 70697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	06/02/11 15:39	Fluoride	2.8	0.1	2.71		104	90 - 110	

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

Sample ID	RunNo: 70697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106045-9SPK	06/03/11 0:44	Fluoride	3.7	0.1	2.5	1.2	99.4	80 - 120	

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

Sample ID	RunNo: 70697	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106036-007A	06/02/11 19:29	Fluoride	0.4	0.1	0.4	2.54		20	

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

Sample ID	RunNo: 71282	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-170	06/20/11 10:27	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 71282	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-170	06/20/11 10:27	Gross Alpha (Dissolved)	82	2	73.6		111	76.7 - 133	
		Gross Beta (Dissolved)	139	3	126		110	76.7 - 133	

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

Sample ID	RunNo: 71282	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106053-001GMS	06/20/11 10:27	Gross Alpha (Dissolved)	67	2	73.6	ND	91.3	47.8 - 153	
		Gross Beta (Dissolved)	147	3	126	ND	117	47.8 - 153	

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

Sample ID	RunNo: 71282	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106022-001GDUP	06/20/11 10:27	Gross Alpha (Dissolved)	73	2	72	1.16		20	
		Gross Beta (Dissolved)	22	4	19	18.4		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: S1106021
Project: Reno Creek Project

Date: 7/1/2011
Report ID: S1106021001

Anions by ION Chromatography

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

Sample ID	RunNo: 70755	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	06/03/11 9:02	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 70755	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	06/03/11 8:38	Chloride	30	1	30		99.4	90 - 110	
		Sulfate	142	1	150		94.8	90 - 110	

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

Sample ID	RunNo: 70755	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106048-003ASPK	06/03/11 20:08	Chloride	58	1	55	7	92.6	80 - 120	
		Sulfate	784	1	440	319	106	80 - 120	

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

Sample ID	RunNo: 70755	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106048-003A	06/03/11 19:56	Chloride	8	1	7	3.46		20	
		Sulfate	323	1	319	1.15		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: S1106021
Project: Reno Creek Project

Date: 7/1/2011
Report ID: S1106021001

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

Sample ID	RunNo: 70749	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	06/03/11 10:53	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 70749	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	06/03/11 10:58	Calcium	41	1	40		101	85 - 115	
		Magnesium	40	1	40		98.7	85 - 115	
		Potassium	40	1	40		99.7	85 - 115	
		Sodium	38	1	40		95.7	85 - 115	

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

Sample ID	RunNo: 70749	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106036-001AS	06/03/11 12:32	Calcium	1740	1	1280	461	101	70 - 130	
		Magnesium	2660	1	1280	1490	91.9	70 - 130	
		Potassium	1490	1	1280	30	114	70 - 130	
		Sodium	5720	1	1280	4610	87.5	70 - 130	

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

Sample ID	RunNo: 70749	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1106036-001ASD	06/03/11 12:34	Calcium	1750	1	1740	0.289	101	20	
		Magnesium	2620	1	2660	1.68	88.4	20	
		Potassium	1480	1	1490	0.752	114	20	
		Sodium	5720	1	5720	0.130	86.9	20	

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

Sample ID	RunNo: 70749	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106032-001BD	06/03/11 12:25	Calcium	129	1	131	1.28		20	
		Magnesium	134	1	136	1.52		20	
		Potassium	15	1	15	0.973		20	
		Sodium	80	1	81	1.31		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: S1106021
Project: Reno Creek Project

Date: 7/1/2011
Report ID: S1106021001

Nitrogen, Ammonia (as N)

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

Sample ID	RunNo: 70880	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	06/08/11 15:18	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 70880	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	06/08/11 15:20	Nitrogen, Ammonia (As N)	9.6	0.1	8.93		108	90 - 110	

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

Sample ID	RunNo: 70880	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106022-001D	06/08/11 16:55	Nitrogen, Ammonia (As N)	9.6	0.1	10	ND	96.2	80 - 120	

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

Sample ID	RunNo: 70880	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106022-001D	06/08/11 16:54	Nitrogen, Ammonia (As N)	ND	0.1	ND	0		20	

Nitrogen, Nitrate-Nitrite (as N)

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

Sample ID	RunNo: 70960	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	06/10/11 14:39	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 70960	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	06/10/11 14:41	Nitrogen, Nitrate-Nitrite (as N)	7.4	0.1	7.69		95.6	90 - 110	

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

Sample ID	RunNo: 70960	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106107-006B	06/10/11 16:33	Nitrogen, Nitrate-Nitrite (as N)	9.3	0.1	10	ND	92.5	80 - 120	

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

Sample ID	RunNo: 70960	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106107-006B	06/10/11 16:32	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1	ND	0		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: S1106021
Project: Reno Creek Project

Date: 7/1/2011
Report ID: S1106021001

Lead 210 and Polonium 210

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

Sample ID	RunNo: 71351	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

MB11-158 06/19/11 0:00 Lead 210 (Dissolved) ND 1

Sample ID	RunNo: 71406	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

MB11-158 06/20/11 9:52 Polonium 210 (Dissolved) ND 1

Sample ID	RunNo: 71417	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

MB11-160 06/21/11 19:08 Lead 210 (Suspended) ND 1

Sample ID	RunNo: 71418	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

MB11-160 06/21/11 17:51 Polonium 210 (Suspended) ND 1

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

Sample ID	RunNo: 71351	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

LCS11-158 06/19/11 17:40 Lead 210 (Dissolved) 14 1 13 105 67.6 - 131

Sample ID	RunNo: 71406	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

LCS11-158 06/20/11 9:52 Polonium 210 (Dissolved) 16 1 13 123 67.6 - 131

Sample ID	RunNo: 71417	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

LCS11-160 06/21/11 19:08 Lead 210 (Suspended) 14 1 13 111 67.6 - 131

Sample ID	RunNo: 71418	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

LCS11-160 06/21/11 17:51 Polonium 210 (Suspended) 9 1 13 70.6 67.6 - 131

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

Sample ID	RunNo: 71351	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

S1106022-001GMS 06/19/11 17:40 Lead 210 (Dissolved) 15 1 13 2 102 66 - 133

Sample ID	RunNo: 71406	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

S1106021-001GMS 06/20/11 9:52 Polonium 210 (Dissolved) 12 1 13 ND 91.1 66 - 133

Sample ID	RunNo: 71417	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

S1106022-001GMS 06/21/11 19:08 Lead 210 (Suspended) 20 1 13 7 101 66 - 133

Sample ID	RunNo: 71418	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

S1106022-001GMS 06/21/11 17:51 Polonium 210 (Suspended) 8 1 13 1 48.7 66 - 133

- 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: S1106021
Project: Reno Creek Project

Date: 7/1/2011
Report ID: S1106021001

Lead 210 and Polonium 210

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

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
-----------	--------	---------	--------	----	----------	------	------	--------------	------

S1106054-001GDUP 06/19/11 17:40 Lead 210 (Dissolved) 8 1 8 0.513 20

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
-----------	--------	---------	--------	----	----------	------	------	--------------	------

S1106054-001GDUP 06/20/11 9:52 Polonium 210 (Dissolved) 4 1 2 67.3 20 R

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
-----------	--------	---------	--------	----	----------	------	------	--------------	------

S1106053-001GDUP 06/21/11 19:08 Lead 210 (Suspended) 1 1 ND 0 20 R

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
-----------	--------	---------	--------	----	----------	------	------	--------------	------

S1106053-001GDUP 06/21/11 17:51 Polonium 210 (Suspended) ND 1 ND 0 20

Radium 228

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------	---------	--------	----	-------	----------	------	--------------	------

MB11-173 06/27/11 16:26 Radium 228 (Dissolved) ND 1

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------	---------	--------	----	-------	----------	------	--------------	------

LCS11-173 06/27/11 16:26 Radium 228 (Dissolved) 11 1 10.3 106 75 - 122

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------	---------	--------	----	-------	----------	------	--------------	------

S1106053-001GMS 06/27/11 16:26 Radium 228 (Dissolved) 12 1 10.3 ND 112 48 - 167

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

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
-----------	--------	---------	--------	----	----------	------	------	--------------	------

S1106054-001GDUP 06/27/11 14:25 Radium 228 (Dissolved) 2 1 1 10.8 20

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1106021
Project: Reno Creek Project

Date: 7/1/2011
Report ID: S1106021001

Radium 226 by SM 7500

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

Sample ID	RunNo: 70893	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DMB11-158	06/09/11 11:36	Radium 226 (Suspended)	ND	0.2					

Sample ID	RunNo: 71096	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-157	06/15/11 9:26	Radium 226 (Dissolved)	ND	0.2					

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

Sample ID	RunNo: 70893	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-158	06/09/11 11:36	Radium 226 (Suspended)	5.0	0.2	5		99.2	56.4 - 132	

Sample ID	RunNo: 71096	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-157	06/15/11 9:26	Radium 226 (Dissolved)	5.1	0.2	5		101	56.4 - 132	

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

Sample ID	RunNo: 71096	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105386-002AMS	06/15/11 9:26	Radium 226 (Suspended)	4.5	0.2	5	0.3	83.5	51 - 135	

Sample ID	RunNo: 70893	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106061-001DMS	06/09/11 11:36	Radium 226 (Dissolved)	5.0	0.2	5	ND	99.4	51 - 135	

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

Sample ID	RunNo: 71096	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105388-002ADUP	06/15/11 9:26	Radium 226 (Suspended)	0.3	0.2	0.3	9.82		20	

Sample ID	RunNo: 70893	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106067-001DDUP	06/09/11 11:36	Radium 226 (Dissolved)	0.3	0.2	0.2	12.7		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: S1106021
Project: Reno Creek Project

Date: 7/1/2011
Report ID: S1106021001

Thorium 230 in Water

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

Sample ID	RunNo: 71146	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-158	06/15/11 9:14	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 71304	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-157	06/17/11 9:01	Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 71146	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-158	06/15/11 9:14	Thorium 230 (Dissolved)	12	0.2	12		96.0	67 - 134	

Sample ID	RunNo: 71304	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-157	06/17/11 9:01	Thorium 230 (Suspended)	12	0.2	12		99.4	67 - 134	

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

Sample ID	RunNo: 71146	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106055-001GDUP	06/15/11 13:19	Thorium 230 (Dissolved)	ND	0.2	ND	0		20	

Sample ID	RunNo: 71304	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105444-001FDUP	06/17/11 9:01	Thorium 230 (Suspended)	ND	0.2	ND	0		20	

Radon 222 by SM7500-RN

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

Sample ID	RunNo: 71106	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R71106	06/02/11 0:00	Radon-222	ND	40					L

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

Sample ID	RunNo: 71106	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R71106	06/02/11 0:00	Radon-222	21400	100	22500		95.1	75 - 125	L

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

Sample ID	RunNo: 71106	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106021-001B	06/02/11 0:00	Radon-222	2030	50	2110	3.79		20	L

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: S1106021
Project: Reno Creek Project

Date: 7/1/2011
Report ID: S1106021001

Silica as SiO2

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

Sample ID	RunNo: 70751	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	06/03/11 10:53	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 70751	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	06/03/11 10:55	Silica as SiO2	2.2	0.1	2.14		102	85 - 115	

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

Sample ID	RunNo: 70751	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106032-001DD	06/03/11 12:25	Silica as SiO2	11.5	0.1	11.7	1.60		20	

Solids By SM 2540

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

Sample ID	RunNo: 70822	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	06/03/11 10:10	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 70822	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	06/03/11 10:15	Total Dissolved Solids (180)	230	10	226		100	90 - 110	

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

Sample ID	RunNo: 70822	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106044-001A	06/03/11 12:40	Total Dissolved Solids (180)	5720	5	5710	0.175		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: S1106021
Project: Reno Creek Project

Date: 7/1/2011
Report ID: S1106021001

Total (200.2) Metals by EPA 200.7 ICP - Water

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

Sample ID	RunNo: 70812	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK 6/6 TOT -5182	06/07/11 16:05	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 70812	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS 6/6 TOT -5182	06/07/11 16:08	Iron	0.47	0.05	0.5		94.3	85 - 115	
		Manganese	0.19	0.02	0.2		93.3	85 - 115	

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

Sample ID	RunNo: 70812	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106022-001FS	06/07/11 16:17	Iron	0.59	0.05	0.5	0.14	89.7	70 - 130	
		Manganese	0.26	0.02	0.2	0.07	90.4	70 - 130	

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

Sample ID	RunNo: 70812	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1106022-001FSD	06/07/11 16:19	Iron	0.59	0.05	0.59	0.357	90.2	20	
		Manganese	0.26	0.02	0.26	0.707	91.3	20	

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

Sample ID	RunNo: 70812	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106021-001FD	06/07/11 16:12	Iron	0.05	0.05	0.05	3.01		20	
		Manganese	0.07	0.02	0.08	1.46		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: S1106021
Project: Reno Creek Project

Date: 7/1/2011
Report ID: S1106021001

Suspended Natural Uranium

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

Sample ID	RunNo: 70796	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	06/07/11 9:44	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 70796	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	06/07/11 9:42	Uranium Suspended	0.105	0.0003	0.1		105	85 - 115	

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

Sample ID	RunNo: 70796	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106021-001HS	06/07/11 9:58	Uranium Suspended	1.18	0.0003	1.1	ND	107	70 - 130	

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

Sample ID	RunNo: 70796	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1106021-001HMSD	06/07/11 10:00	Uranium Suspended	1.21	0.0003	1.18	2.85	110	20	

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

Sample ID	RunNo: 70796	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106021-001HD	06/07/11 9:55	Uranium Suspended	ND	0.0003	ND	0		20	

pH Water

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

Sample ID	RunNo: 70697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	06/02/11 15:39	pH	8.4	0.1	8.63		97.4	90 - 110	

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

Sample ID	RunNo: 70697	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106036-007A	06/02/11 19:29	pH	7.8	0.1	7.8	0.589		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

