



Tuesday, February 07, 2012

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

RE: Reno Creek Project
Orde

r No.: S1201022

Dear Phil Cavendor:

Inter-Mountain Laboratories received sample UM7-003-111229 on January 3, 2012.

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: 2/7/2012

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1201022

CASE NARRATIVE
Report ID: S1201022001

Sample UM7-003-1111229 was received on January 3, 2012.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1998
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition
Methods indicated with the Monday, March 12, 2007 Federal Register, 40 CFR Part 122, 136 et al.

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

For the purposes of this report, the Reporting Limit (RL) is the Practical Quantitation Limit (PQL).

Radon 222 was analyzed through Energy Laboratories, Inc (ELI) NEHA Certification #: 101188 AL

Qualifiers by sample

S1201022-001 - Radiochemistry/Lead 210 (Dissolved) - RPD outside accepted recovery limits
LCS-R79027 - General Parameters/Radon-222 - Analyzed by a contract laboratory
MB-R79027 - 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

ProjectName: Reno Creek Project
Lab ID: S1201022-001
ClientSample ID: UM7-003-1111229
COC: RC 08412

Date Reported: 2/7/2012
Report ID: S1201022001

WorkOrder: S1201022
CollectionDate: 12/29/2011 9:30:00 AM
DateReceived: 1/3/2012 12:43:00 PM
FieldSampler: TN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
Field						
pH Reading 1	10.57	s.u.			Field	12/29/2011 9:30:00 AM
pH Reading 2	10.56	s.u.			Field	12/29/2011 9:30:00 AM
pH Reading 3	10.56	s.u.			Field	12/29/2011 9:30:00 AM
Conductivity Reading 1	637	µmhos/cm			Field	12/29/2011 9:30:00 AM
Conductivity Reading 2	636	µmhos/cm			Field	12/29/2011 9:30:00 AM
Conductivity Reading 3	636	µmhos/cm			Field	12/29/2011 9:30:00 AM
Turbidity Reading 1	55.0	NTU			Field	12/29/2011 9:30:00 AM
Turbidity Reading 2	53.1	NTU			Field	12/29/2011 9:30:00 AM
Turbidity Reading 3	54.0	NTU			Field	12/29/2011 9:30:00 AM
Dissolved Oxygen Reading 1	2.85	mg/L			Field	12/29/2011 9:30:00 AM
Dissolved Oxygen Reading 2	2.80	mg/L			Field	12/29/2011 9:30:00 AM
Dissolved Oxygen Reading 3	2.84	mg/L			Field	12/29/2011 9:30:00 AM
Temperature Reading 1	10.76	°C			Field	12/29/2011 9:30:00 AM
Temperature Reading 2	10.76	°C			Field	12/29/2011 9:30:00 AM
Temperature Reading 3	10.75	°C			Field	12/29/2011 9:30:00 AM
Oxygen Reduction Potential Reading	-13.8	mV			Field	12/29/2011 9:30:00 AM
Oxygen Reduction Potential Reading	-14.4	mV			Field	12/29/2011 9:30:00 AM
Oxygen Reduction Potential Reading	-14.4	mV			Field	12/29/2011 9:30:00 AM
Purge Rate Reading 1	400	ml/min			Field	12/29/2011 9:30:00 AM
Purge Rate Reading 2	400	ml/min			Field	12/29/2011 9:30:00 AM
Purge Rate Reading 3	400	ml/min			Field	12/29/2011 9:30:00 AM
Water Level Reading 1	194.6	Ft			Field	12/29/2011 9:30:00 AM

These results apply only to the samples tested.

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

RL - Reporting Limit

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

Reviewed by: 
 Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401
ProjectName: Reno Creek Project
Lab ID: S1201022-001
ClientSample ID: UM7-003-1111229
COC: RC 08412

Date Reported 2/7/2012
Report ID S1201022001
WorkOrder: S1201022
CollectionDate: 12/29/2011 9:30:00 AM
DateReceived: 1/3/2012 12:43:00 PM
FieldSampler: TN
Matrix: Water

Comments

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

These results apply only to the samples tested.

RL - Reporting Limit

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

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

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



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401
ProjectName: Reno Creek Project
Lab ID: S1201022-001
ClientSample ID: UM7-003-1111229
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Date Reported 2/7/2012
Report ID S1201022001
WorkOrder: S1201022
CollectionDate: 12/29/2011 9:30:00 AM
DateReceived: 1/3/2012 12:43:00 PM
FieldSampler: TN
Matrix: Water

Comments

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

These results apply only to the samples tested.

RL - Reporting Limit

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

- 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: S1201022-001
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DateReceived: 1/3/2012 12:43:00 PM
FieldSampler: TN
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Dissolved (Gross Alpha, Lead 210, etc.) and Radionuclides - Suspended (Lead 210, Polonium 210, etc.).

These results apply only to the samples tested.

RL - Reporting Limit

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

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

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1201022
Project: Reno Creek Project

Date: 2/7/2012
Report ID: S1201022001

Alkalinity

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

Sample ID	RunNo: 78652	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	01/06/12 11:45	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 78652	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	01/06/12 11:34	Alkalinity, Total (As CaCO3)	583	5	601		97.1	90 - 110	

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

Sample ID	RunNo: 78652	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1112472-005AD	01/06/12 12:48	Alkalinity, Bicarbonate as HCO3	1170	5	1160	0.290		20	
		Alkalinity, Carbonate as CO3	ND	5	ND			20	
		Alkalinity, Total (As CaCO3)	957	5	954	0.290		20	

Conductivity

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 78652	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	01/06/12 11:45	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 78652	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	01/06/12 11:34	Electrical Conductivity	1050	5	1120		93.2	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 78652	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1112472-005AD	01/06/12 12:48	Electrical Conductivity	1460	5	1460	0.341		20	

- Qualifiers:**
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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
Work Order: S1201022
Project: Reno Creek Project

Date: 2/7/2012
Report ID: S1201022001

Dissolved Mercury by EPA 245.1 - Water

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

Sample ID	RunNo: 78595	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	01/05/12 8:42	Mercury	ND	0.001					

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

Sample ID	RunNo: 78595	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	01/05/12 8:40	Mercury	0.002	0.001	0.002		97.6	85 - 115	

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

Sample ID	RunNo: 78595	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1201014-001C	01/05/12 10:27	Mercury	0.002	0.001	0.00244	ND	91.5	70 - 130	

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

Sample ID	RunNo: 78595	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1201014-001C	01/05/12 10:29	Mercury	0.002	0.001	0.002	1.16		20	

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

Sample ID	RunNo: 78595	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1201014-001C	01/05/12 10:25	Mercury	ND	0.001	ND			20	

- Qualifiers:**
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 - H Holding times for preparation or analysis exceeded
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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
Work Order: S1201022
Project: Reno Creek Project

Date: 2/7/2012
Report ID: S1201022001

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 78576	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	01/04/12 11:36	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: 78576	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	01/04/12 11:38	Aluminum	1.0	0.1	1		100	85 - 115	
		Boron	1.0	0.1	1		98.9	85 - 115	
		Chromium	1.01	0.01	1		101	85 - 115	
		Iron	1.01	0.05	1		101	85 - 115	
		Manganese	1.06	0.02	1		106	85 - 115	
		Nickel	1.04	0.01	1		104	85 - 115	
		Zinc	1.03	0.01	1		103	85 - 115	

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

Sample ID	RunNo: 78576	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1201020-001DS	01/04/12 18:19	Aluminum	0.6	0.1	0.5	ND	115	70 - 130	
		Boron	0.6	0.1	0.5	ND	106	70 - 130	
		Chromium	0.52	0.01	0.5	ND	105	70 - 130	
		Iron	0.45	0.05	0.5	ND	89.3	70 - 130	
		Manganese	0.54	0.02	0.5	0.02	103	70 - 130	
		Nickel	0.50	0.01	0.5	ND	99.9	70 - 130	
		Zinc	0.50	0.01	0.5	ND	99.6	70 - 130	

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

Sample ID	RunNo: 78576	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1201020-001DSD	01/04/12 18:22	Aluminum	0.6	0.1	0.6	7.96		20	
		Boron	0.6	0.1	0.6	7.37		20	
		Chromium	0.56	0.01	0.52	7.52		20	
		Iron	0.48	0.05	0.45	6.37		20	
		Manganese	0.58	0.02	0.54	7.06		20	
		Nickel	0.54	0.01	0.50	7.35		20	
		Zinc	0.53	0.01	0.50	7.13		20	

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1201022
Project: Reno Creek Project

Date: 2/7/2012
Report ID: S1201022001

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 78576	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1201019-030BD	01/04/12 18:14	Aluminum	44.7	0.1	45.3	1.25		20	
		Boron	ND	0.1	ND			20	
		Chromium	0.17	0.01	0.18	2.27		20	
		Iron	1140	0.05	1160	2.00		20	
		Manganese	0.49	0.02	0.49	0.390		20	
		Nickel	5.19	0.01	5.30	2.05		20	
		Zinc	36.3	0.01	36.4	0.324		20	

Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 78503	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	01/03/12 10:54	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: 78503	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	01/03/12 10:49	Arsenic	0.098	0.005	0.1		98.4	85 - 115	
		Barium	ND	0.5	0.1		98.6	85 - 115	
		Cadmium	0.099	0.002	0.1		99.4	85 - 115	
		Copper	0.10	0.01	0.1		96.7	85 - 115	
		Lead	0.10	0.02	0.1		100	85 - 115	
		Molybdenum	0.10	0.02	0.1		97.1	85 - 115	
		Selenium	0.096	0.005	0.1		96.2	85 - 115	
		Uranium	0.101	0.001	0.1		101	85 - 115	
		Vanadium	0.10	0.02	0.1		97.6	85 - 115	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
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 - O Outside the Range of Dilutions
 - S Spike Recovery outside accepted recovery limits
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1201022
Project: Reno Creek Project

Date: 2/7/2012
Report ID: S1201022001

Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 78503	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1201020-001DS	01/03/12 21:20	Arsenic	1.05	0.005	1.1	ND	95.8	70 - 130	
		Barium	1.0	0.5	1.1	ND	88.2	70 - 130	
		Cadmium	0.980	0.002	1.1	ND	89.1	70 - 130	
		Copper	1.02	0.01	1.1	ND	92.6	70 - 130	
		Lead	0.99	0.02	1.1	ND	89.8	70 - 130	
		Molybdenum	0.96	0.02	1.1	ND	86.8	70 - 130	
		Selenium	1.03	0.005	1.1	ND	93.3	70 - 130	
		Uranium	0.976	0.001	1.1	ND	88.7	70 - 130	
		Vanadium	1.01	0.02	1.1	ND	91.5	70 - 130	

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

Sample ID	RunNo: 78503	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1201020-001DMSD	01/03/12 21:34	Arsenic	1.06	0.005	1.05	0.836		20	
		Barium	1.1	0.5	1.0	5.56		20	
		Cadmium	1.03	0.002	0.980	5.43		20	
		Copper	1.07	0.01	1.02	5.41		20	
		Lead	1.05	0.02	0.99	5.93		20	
		Molybdenum	1.08	0.02	0.96	12.6		20	
		Selenium	1.03	0.005	1.03	0.643		20	
		Uranium	1.08	0.001	0.976	10.5		20	
		Vanadium	1.09	0.02	1.01	8.00		20	

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

Sample ID	RunNo: 78503	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1201020-001DD	01/03/12 21:15	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	ND	0.001	ND			20	
		Vanadium	ND	0.02	ND			20	

- Qualifiers:**
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 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
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**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1201022
Project: Reno Creek Project

Date: 2/7/2012
Report ID: S1201022001

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

Sample ID	RunNo: 78705	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	01/09/12 14:28	Fluoride	ND	0.1					

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

Sample ID	RunNo: 78705	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	01/09/12 14:18	Fluoride	2.8	0.1	2.96		94.1	90 - 110	

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

Sample ID	RunNo: 78705	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1201084-001ASPK	01/09/12 18:14	Fluoride	2.4	0.1	2.5	0.2	89.0	80 - 120	

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

Sample ID	RunNo: 78705	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1112472-005AD	01/09/12 15:34	Fluoride	0.7	0.1	0.7	0.472		20	

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

Sample ID	RunNo: 78974	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB12-010	01/12/12 17:43	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 78974	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS12-010	01/12/12 17:43	Gross Alpha (Dissolved)	85	2	73.6		115	83 - 133	
		Gross Beta (Dissolved)	137	3	126		109	88 - 115	

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

Sample ID	RunNo: 78974	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1112367-002FMS	01/12/12 17:43	Gross Alpha (Dissolved)	67	2	73.6	7	81.9	48 - 153	
		Gross Beta (Dissolved)	145	3	126	6	110	60 - 140	

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

Sample ID	RunNo: 78974	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1112367-003FDUP	01/16/12 17:40	Gross Alpha (Dissolved)	20	2	22	12.2		20	
		Gross Beta (Dissolved)	10	3	8	17.4		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: S1201022
Project: Reno Creek Project

Date: 2/7/2012
Report ID: S1201022001

Anions by ION ChromatographySample Type **MBLK** Units: mg/L

Sample ID	RunNo: 78574	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	01/04/12 9:30	Chloride	ND	1					
		Sulfate	ND	1					

Sample ID	RunNo: 78790	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	01/11/12 9:11	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 78574	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	01/04/12 9:43	Chloride	31	1	30		105	90 - 110	
		Sulfate	144	1	150		95.8	90 - 110	

Sample ID	RunNo: 78790	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	01/11/12 8:48	Chloride	31	1	30		102	90 - 110	
		Sulfate	143	1	150		95.7	90 - 110	

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

Sample ID	RunNo: 78574	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1112380-004ASPK	01/04/12 21:17	Chloride	2490	1	2500	31	98.2	80 - 120	
		Sulfate	27700	1	20000	7300	102	80 - 120	

Sample ID	RunNo: 78790	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1201117-006ASPK	01/11/12 19:49	Chloride	90	1	80	11	98.9	80 - 120	
		Sulfate	715	1	640	80	99.2	80 - 120	

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

Sample ID	RunNo: 78574	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1112380-004A	01/04/12 21:05	Chloride	30	5	31	1.63		20	
		Sulfate	6610	10	7300	9.46		20	

Sample ID	RunNo: 78790	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1201117-006A	01/11/12 19:38	Chloride	12	1	11	1.86		20	
		Sulfate	81	1	80	0.122		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: S1201022
Project: Reno Creek Project

Date: 2/7/2012
Report ID: S1201022001

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

Sample ID	RunNo: 78573	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	01/04/12 11:36	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

Sample ID	RunNo: 78793	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	01/11/12 14:27	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 78573	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	01/04/12 11:40	Calcium	40	1	40		99.7	85 - 115	
		Magnesium	40	1	40		99.3	85 - 115	
		Potassium	39	1	40		97.8	85 - 115	
		Sodium	39	1	40		97.2	85 - 115	

Sample ID	RunNo: 78793	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	01/11/12 14:32	Calcium	40	1	40		101	85 - 115	
		Magnesium	40	1	40		99.9	85 - 115	
		Potassium	40	1	40		99.6	85 - 115	
		Sodium	39	1	40		98.1	85 - 115	

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

Sample ID	RunNo: 78573	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1201020-001AS	01/04/12 18:19	Calcium	85	1	50	36	97.9	70 - 130	
		Magnesium	57	1	50	5	105	70 - 130	
		Potassium	64	1	50	4	120	70 - 130	
		Sodium	193	1	50	149	89.0	70 - 130	

Sample ID	RunNo: 78793	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1201132-002AS	01/11/12 16:13	Calcium	53	1	50	1	104	70 - 130	
		Magnesium	52	1	50	ND	103	70 - 130	
		Potassium	60	1	50	2	116	70 - 130	
		Sodium	221	1	50	182	77.5	70 - 130	

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: S1201022
Project: Reno Creek Project

Date: 2/7/2012
Report ID: S1201022001

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

Sample ID	RunNo: 78573	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1201020-001ASD	01/04/12 18:22	Calcium	88	1	85	3.69		20	
		Magnesium	62	1	57	7.18		20	
		Potassium	68	1	64	6.12		20	
		Sodium	196	1	193	1.42		20	

Sample ID	RunNo: 78793	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1201132-002ASD	01/11/12 16:15	Calcium	53	1	53	0.738		20	
		Magnesium	52	1	52	0.710		20	
		Potassium	59	1	60	0.640		20	
		Sodium	222	1	221	0.742		20	

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

Sample ID	RunNo: 78573	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1201019-030AD	01/04/12 18:14	Calcium	17	1	18	2.28		20	
		Magnesium	7	1	7	1.14		20	
		Potassium	2	1	2	2.21		20	
		Sodium	ND	1	ND			20	

Sample ID	RunNo: 78793	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1201132-001AD	01/11/12 16:01	Calcium	6	1	6	1.65		20	
		Magnesium	4	1	4	1.05		20	
		Potassium	9	1	10	0.654		20	
		Sodium	772	1	774	0.268		20	

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

Sample ID	RunNo: 78620	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	01/05/12 16:11	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 78620	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	01/05/12 16:13	Nitrogen, Ammonia (As N)	9.6	0.1	10		95.8	90 - 110	

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

Sample ID	RunNo: 78620	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1201020-001C	01/05/12 16:28	Nitrogen, Ammonia (As N)	9.9	0.1	10	0.1	97.5	80 - 120	

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

Sample ID	RunNo: 78620	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1201020-001C	01/05/12 16:27	Nitrogen, Ammonia (As N)	0.1	0.1	0.1	7.97		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: S1201022
Project: Reno Creek Project

Date: 2/7/2012
Report ID: S1201022001

Nitrogen, Nitrate-Nitrite (as N)

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

Sample ID	RunNo: 78716	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	01/09/12 15:50	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 78716	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	01/09/12 15:47	Nitrogen, Nitrate-Nitrite (as N)	2.3	0.1	2.31		100	90 - 110	

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

Sample ID	RunNo: 78716	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1201051-002B	01/09/12 16:48	Nitrogen, Nitrate-Nitrite (as N)	10.8	0.05	10	0.49	103	80 - 120	

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

Sample ID	RunNo: 78716	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1201051-002B	01/09/12 16:47	Nitrogen, Nitrate-Nitrite (as N)	0.49	0.05	0.49	1.94		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: S1201022
Project: Reno Creek Project

Date: 2/7/2012
Report ID: S1201022001

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

Sample ID	RunNo: 79070	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB12-011	01/18/12 11:15	Polonium 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 79071	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB12-011	01/19/12 10:44	Lead 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 79293	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB12-012	01/23/12 13:16	Polonium 210 (Suspended)	ND	1					
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Sample ID	RunNo: 79292	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB12-012	01/23/12 15:49	Lead 210 (Suspended)	ND	1					
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Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 79070	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS12-011 PO	01/18/12 11:15	Polonium 210 (Dissolved)	1	1	1.46		93.8	35.1 - 175	
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Sample ID	RunNo: 79071	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS12-011	01/19/12 10:44	Lead 210 (Dissolved)	14	1	12.8		112	67.6 - 131	
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Sample ID	RunNo: 79293	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS12-012 PO	01/23/12 13:16	Polonium 210 (Suspended)	2	1	1.43		144	48.6 - 156	
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Sample ID	RunNo: 79292	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS12-012	01/23/12 15:49	Lead 210 (Suspended)	14	1	12.8		108	60.3 - 141	
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Sample Type **MS** Units: pCi/L

Sample ID	RunNo: 79070	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1201021-001FMS	01/18/12 11:15	Polonium 210 (Dissolved)	4	1	5.53	ND	67.6	20.9 - 160	
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Sample ID	RunNo: 79071	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1201021-001FMS	01/19/12 10:44	Lead 210 (Dissolved)	15	1	12.8	ND	115	66 - 133	
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Sample ID	RunNo: 79293	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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TAP WATER MS	01/23/12 13:16	Polonium 210 (Suspended)	10	1	12.6	ND	80.4	28 - 173	
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Sample ID	RunNo: 79292	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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TAP WATER MS	01/23/12 15:49	Lead 210 (Suspended)	13	1	12.8	ND	102	62.4 - 132	
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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: S1201022
Project: Reno Creek Project

Date: 2/7/2012
Report ID: S1201022001

Lead 210 and Polonium 210

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

Sample ID	RunNo: 79293	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
TAP WATER MSD	01/23/12 13:16	Polonium 210 (Suspended)	7	1	10	29.9		30	

Sample ID	RunNo: 79292	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
TAP WATER MSD	01/23/12 15:49	Lead 210 (Suspended)	13	1	13	3.31		30	

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

Sample ID	RunNo: 79070	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1201022-001FDUP	01/18/12 11:15	Polonium 210 (Dissolved)	ND	1	ND			20	

Sample ID	RunNo: 79071	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1201022-001FDUP	01/19/12 10:44	Lead 210 (Dissolved)	2	1	1	33.6		20	R

Radium 228

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

Sample ID	RunNo: 79056	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB12-012	01/18/12 17:08	Radium 228 (Dissolved)	ND	1					

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

Sample ID	RunNo: 79056	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS12-012	01/18/12 17:08	Radium 228 (Dissolved)	9	1	9.9		95.0	74.9 - 122	

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

Sample ID	RunNo: 79056	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1112448-001FMS	01/18/12 17:08	Radium 228 (Dissolved)	8	1	9.9	ND	81.7	48.4 - 167	

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

Sample ID	RunNo: 79056	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1201020-001FDUP	01/18/12 17:08	Radium 228 (Dissolved)	1	1	2	13.7		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: S1201022
Project: Reno Creek Project

Date: 2/7/2012
Report ID: S1201022001

Radium 226 by SM 7500

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

Sample ID	RunNo: 79127	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB12-011	01/19/12 12:22	Radium 226 (Dissolved)	ND	0.2					
		Radium 226 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 79127	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS12-011	01/18/12 0:00	Radium 226 (Dissolved)	5.4	0.2	5.06		107	62.5 - 125	
		Radium 226 (Suspended)	5.4	0.2	5.06		107	56.4 - 132	

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

Sample ID	RunNo: 79127	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1112462-001FMS	01/18/12 16:56	Radium 226 (Suspended)	5.3	0.2	5.06	ND	105	51.4 - 135	

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

Sample ID	RunNo: 79127	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1112461-001FDUP	01/18/12 16:56	Radium 226 (Suspended)	ND	0.2	ND			20	

Thorium 230 in Water

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

Sample ID	RunNo: 79103	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB12-011	01/18/12 9:16	Thorium 230 (Suspended)	ND	0.2					

Sample ID	RunNo: 79398	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB12-003	01/20/12 8:38	Thorium 230 (Dissolved)	ND	0.2					

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

Sample ID	RunNo: 79103	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS12-011	01/18/12 9:16	Thorium 230 (Suspended)	12	0.2	12		98.5	69.2 - 127	

Sample ID	RunNo: 79398	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS12-003	01/20/12 8:38	Thorium 230 (Dissolved)	11	0.2	12		90.5	67.1 - 134	

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

Sample ID	RunNo: 79103	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1201022-001F DUP	01/18/12 9:16	Thorium 230 (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: S1201022
Project: Reno Creek Project

Date: 2/7/2012
Report ID: S1201022001

Radon 222 by SM7500-RN

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

Sample ID	RunNo: 79027	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R79027	12/30/11 14:43	Radon-222	ND	100					L

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

Sample ID	RunNo: 79027	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R79027	12/30/11 14:43	Radon-222	600	100	635		102	70 - 130	L

Silica as SiO2

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

Sample ID	RunNo: 78578	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	01/04/12 11:36	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 78578	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	01/04/12 11:38	Silica as SiO2	2.1	0.1	2.14		98.2	85 - 115	

Solids By SM 2540

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

Sample ID	RunNo: 78677	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	01/03/12 13:02	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 78677	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	01/03/12 13:03	Total Dissolved Solids (180)	220	10	226		97.3	90 - 110	

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

Sample ID	RunNo: 78677	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1201007-002A	01/03/12 13:06	Total Dissolved Solids (180)	420	10	420	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: S1201022
Project: Reno Creek Project

Date: 2/7/2012
Report ID: S1201022001

Total (200.2) Metals by EPA 200.7 ICP - Water

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

Sample ID	RunNo: 78613	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-5745	01/05/12 16:54	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 78613	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-5745	01/05/12 16:56	Iron	0.50	0.05	0.5		99.5	85 - 115	
		Manganese	0.20	0.02	0.2		100	85 - 115	

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

Sample ID	RunNo: 78613	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1201020-001ES	01/05/12 17:06	Iron	0.70	0.05	0.5	0.17	104	70 - 130	
		Manganese	0.25	0.02	0.2	0.05	102	70 - 130	

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

Sample ID	RunNo: 78613	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1201020-001EMSD	01/05/12 17:08	Iron	0.67	0.05	0.70	3.27		20	
		Manganese	0.25	0.02	0.25	1.12		20	

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

Sample ID	RunNo: 78613	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1201009-001BD	01/05/12 17:01	Iron	ND	0.05	ND			20	
		Manganese	ND	0.02	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: S1201022
Project: Reno Creek Project

Date: 2/7/2012
Report ID: S1201022001

Suspended Natural Uranium

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

Sample ID	RunNo: 78784	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	01/11/12 13:32	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 78784	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	01/11/12 13:28	Uranium Suspended	0.0975	0.0003	0.1		97.5	85 - 115	

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

Sample ID	RunNo: 78784	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1112461-001FS	01/11/12 15:31	Uranium Suspended	1.09	0.0003	1.1	ND	99.1	70 - 130	

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

Sample ID	RunNo: 78784	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1112461-001FMSD	01/11/12 15:35	Uranium Suspended	1.08	0.0003	1.09	0.482		20	

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

Sample ID	RunNo: 78784	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1112461-001FD	01/11/12 15:27	Uranium Suspended	ND	0.0003	ND			20	

pH Water

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

Sample ID	RunNo: 78652	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	01/06/12 11:34	pH	8.5	0.1	8.48		99.8	90 - 110	

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

Sample ID	RunNo: 78652	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1112472-005AD	01/06/12 12:48	pH	7.6	0.1	7.5	0.314		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
 Sheridan, WY and Gillette, WY
 1873 Terr. Ave. (307) 682-8945
 Sheridan, WY 82801 (307) 672-8945

- CHAIN OF CUSTODY RECORD -

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08412

Client Name		Project Identification		Sampler (Signature/Printed)		Telephone #	
AUC LLC		Reno Creek Project		Kaci Nicklasson			
Report Address		Contact Name		Email		Phone	
peavendor@auc-llc.com; tricketson@treccorp.com; jshriver@treccorp.com		Kaci Nicklasson		Kaci Nicklasson@treccorp.com		307-265-0696	
Invoice Address		Purchase Order #		Quote #			
AUC LLC 900 Wornick Ct. Ste 150 Casper WY 82401		307-265-0696					
ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	REMARKS
1							
2	512010225	12/29/16	9:30	UM7-003-11229	WT	10	Groundwater
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							

LAB COMMENTS	RELINQUISHED BY (Signature/Printed)	DATE	TIME	RECEIVED BY (Signature/Printed)	DATE	TIME
2.31C	Kaci Nicklasson	1/3/17	1400	Kathy Boy	1.3.12	12:43

SHIPPING INFO	MATRIX CODES	TURNAROUND TIMES	COMPLIANCE INFORMATION	ADDITIONAL REMARKS
<input type="checkbox"/> UPS <input type="checkbox"/> Fed Express <input type="checkbox"/> US Mail <input type="checkbox"/> Hand Carried <input checked="" type="checkbox"/> Other	Water <input checked="" type="checkbox"/> WT Soil <input type="checkbox"/> SL Solid <input type="checkbox"/> SD Trip Blank <input type="checkbox"/> TB Other <input type="checkbox"/> OT	<input checked="" type="checkbox"/> Check desired service <input type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH - 5 Working Days <input type="checkbox"/> URGENT - < 2 Working Days Rush & Urgent Surcharges will be applied	Compliance Monitoring? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Program (SDWA, NPDES,...) PWSID / Permit # Chlorinated? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Sample Disposal: Lab <input checked="" type="checkbox"/> Client	no radon