



Friday, June 29, 2012

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

RE: Reno Creek Project
Orde

r No.: S1201414

Dear Phil Cavendor:

Inter-Mountain Laboratories received sample PZM7-004-120131 on January 31, 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: 6/29/2012

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1201414

CASE NARRATIVE
Report ID: S1201414002
(Replaces S1201414001)

Sample PZM7-004-120131 was received on January 31, 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 ALS Laboratory Group Certification #: CO00078.

Qualifiers by sample

S1202043-001 - Radiochemistry/Uranium Suspended - RPD outside accepted recovery limits
S1201414-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
LCS-R79685 - General Parameters/Radon-222 - Analyzed by a contract laboratory
MB-R79685 - 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: S1201414-001
ClientSample ID: PZM7-004-120131
COC: RC 08181

Date Reported 6/29/2012
Report ID S1201414002
(Replaces S1201414001)
WorkOrder: S1201414
CollectionDate: 1/31/2012 1:45:00 PM
DateReceived: 1/31/2012 4:44:00 PM
FieldSampler: TN
Matrix: Water

Comments

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

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: S1201414-001
ClientSample ID: PZM7-004-120131
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Date Reported 6/29/2012
Report ID S1201414002
(Replaces S1201414001)
WorkOrder: S1201414
CollectionDate: 1/31/2012 1:45:00 PM
DateReceived: 1/31/2012 4:44:00 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: S1201414-001
ClientSample ID: PZM7-004-120131
COC: RC 08181

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(Replaces S1201414001)
WorkOrder: S1201414
CollectionDate: 1/31/2012 1:45:00 PM
DateReceived: 1/31/2012 4:44:00 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).

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Reviewed by: [Signature]
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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.).

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O Outside the Range of Dilutions

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1201414
Project: Reno Creek Project

Date: 6/29/2012
Report ID: S1201414002
(Replaces S1201414001)

Alkalinity

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

Sample ID	RunNo: 79579	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	02/06/12 15:52	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 79579	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	02/06/12 15:42	Alkalinity, Total (As CaCO3)	590	5	601		98.3	90 - 110	

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

Sample ID	RunNo: 79579	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1202033-002BD	02/06/12 19:06	Alkalinity, Bicarbonate as HCO3	ND	5	ND				
		Alkalinity, Carbonate as CO3	ND	5	ND				
		Alkalinity, Total (As CaCO3)	ND	5	ND				

Conductivity

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 79674	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	02/08/12 13:29	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 79674	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	02/08/12 13:19	Electrical Conductivity	1090	5	1120		97.4	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 79674	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1202095-005AD	02/08/12 15:11	Electrical Conductivity	59	5	59	0.513		20	

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ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1201414
Project: Reno Creek Project

Date: 6/29/2012
Report ID: S1201414002
(Replaces S1201414001)

Dissolved Mercury by EPA 245.1 - Water

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

Sample ID	RunNo: 79660	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	02/08/12 8:56	Mercury	ND	0.001					

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

Sample ID	RunNo: 79660	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	02/08/12 8:54	Mercury	0.002	0.001	0.002		99.9	85 - 115	

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

Sample ID	RunNo: 79660	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1201414-001D	02/08/12 9:07	Mercury	0.002	0.001	0.00244	ND	96.0	70 - 130	

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

Sample ID	RunNo: 79660	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1201414-001D	02/08/12 9:09	Mercury	0.002	0.001	0.002	1.53	94.5	20	

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

Sample ID	RunNo: 79660	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1201414-001D	02/08/12 9:06	Mercury	ND	0.001	ND			20	

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ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1201414
Project: Reno Creek Project

Date: 6/29/2012
Report ID: S1201414002
 (Replaces S1201414001)

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 79520	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	02/03/12 12:09	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: 79520	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	02/03/12 12:11	Aluminum	1.0	0.1	1		101	85 - 115	
		Boron	1.0	0.1	1		101	85 - 115	
		Chromium	1.01	0.01	1		101	85 - 115	
		Iron	1.03	0.05	1		103	85 - 115	
		Manganese	1.03	0.02	1		103	85 - 115	
		Nickel	1.03	0.01	1		103	85 - 115	
		Zinc	1.07	0.01	1		107	85 - 115	

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

Sample ID	RunNo: 79520	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1202028-005CS	02/03/12 13:18	Aluminum	0.5	0.1	0.5	ND	107	70 - 130	
		Boron	0.9	0.1	0.5	0.4	93.7	70 - 130	
		Chromium	0.50	0.01	0.5	ND	99.6	70 - 130	
		Iron	0.50	0.05	0.5	ND	99.0	70 - 130	
		Manganese	0.50	0.02	0.5	ND	97.1	70 - 130	
		Nickel	0.47	0.01	0.5	ND	93.3	70 - 130	
		Zinc	0.50	0.01	0.5	ND	101	70 - 130	

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

Sample ID	RunNo: 79520	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1202028-005CSD	02/03/12 13:21	Aluminum	0.5	0.1	0.5	0.336	107	20	
		Boron	0.9	0.1	0.9	0.0115	93.7	20	
		Chromium	0.50	0.01	0.50	0.602	99.0	20	
		Iron	0.50	0.05	0.50	0.0199	98.9	20	
		Manganese	0.50	0.02	0.50	0.179	97.0	20	
		Nickel	0.47	0.01	0.47	0.193	93.1	20	
		Zinc	0.50	0.01	0.50	0.119	100	20	

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ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1201414
Project: Reno Creek Project

Date: 6/29/2012
Report ID: S1201414002
(Replaces S1201414001)

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 79520	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1202028-004CD	02/03/12 13:14	Aluminum	ND	0.1	ND			20	
		Boron	0.3	0.1	0.3	1.05		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: 79514	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	02/03/12 10:22	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: 79514	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	02/03/12 10:17	Arsenic	0.102	0.005	0.1		102	85 - 115	
		Barium	ND	0.5	0.1		97.1	85 - 115	
		Cadmium	0.098	0.002	0.1		97.9	85 - 115	
		Copper	0.10	0.01	0.1		98.0	85 - 115	
		Lead	0.10	0.02	0.1		103	85 - 115	
		Molybdenum	0.10	0.02	0.1		98.5	85 - 115	
		Selenium	0.103	0.005	0.1		103	85 - 115	
		Uranium	0.102	0.001	0.1		102	85 - 115	
		Vanadium	0.10	0.02	0.1		98.3	85 - 115	

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ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1201414
Project: Reno Creek Project

Date: 6/29/2012
Report ID: S1201414002
(Replaces S1201414001)

Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 79514	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1201414-001DS	02/03/12 10:51	Arsenic	1.16	0.005	1.1	0.034	102	70 - 130	
		Barium	1.1	0.5	1.1	ND	94.3	70 - 130	
		Cadmium	1.09	0.002	1.1	ND	99.5	70 - 130	
		Copper	1.12	0.01	1.1	ND	101	70 - 130	
		Lead	1.10	0.02	1.1	ND	100	70 - 130	
		Molybdenum	1.08	0.02	1.1	ND	98.0	70 - 130	
		Selenium	1.10	0.005	1.1	ND	100	70 - 130	
		Uranium	1.11	0.001	1.1	0.014	100	70 - 130	
		Vanadium	1.26	0.02	1.1	0.13	103	70 - 130	

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

Sample ID	RunNo: 79514	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1201414-001DMSD	02/03/12 10:56	Arsenic	1.15	0.005	1.16	0.985	101	20	
		Barium	1.1	0.5	1.1	4.99	99.2	20	
		Cadmium	1.10	0.002	1.09	0.571	100	20	
		Copper	1.10	0.01	1.12	1.38	100	20	
		Lead	1.09	0.02	1.10	0.969	99.4	20	
		Molybdenum	1.09	0.02	1.08	1.11	99.0	20	
		Selenium	1.08	0.005	1.10	1.84	98.2	20	
		Uranium	1.12	0.001	1.11	0.819	101	20	
		Vanadium	1.29	0.02	1.26	2.27	106	20	

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

Sample ID	RunNo: 79514	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1201414-001DD	02/03/12 10:47	Arsenic	0.033	0.005	0.034	3.26		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	0.014	0.001	0.014	3.30		20	
		Vanadium	0.13	0.02	0.13	3.88		20	

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ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1201414
Project: Reno Creek Project

Date: 6/29/2012
Report ID: S1201414002
(Replaces S1201414001)

Fluoride by SM 4500

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

Sample ID	RunNo: 79579	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	02/06/12 15:52	Fluoride	ND	0.1					

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

Sample ID	RunNo: 79579	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	02/06/12 15:42	Fluoride	3.1	0.1	2.96		105	90 - 110	

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

Sample ID	RunNo: 79579	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1202062-003ASPK	02/07/12 0:09	Fluoride	3.1	0.1	2.5	0.4	107	80 - 120	

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

Sample ID	RunNo: 79579	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1202028-004AD	02/06/12 17:35	Fluoride	1.8	0.1	1.8	3.31		20	

Gross Alpha, Beta by SM 7110B

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

Sample ID	RunNo: 79890	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB12-045	02/15/12 21:15	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

Sample ID	RunNo: 80299	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB12-061	03/01/12 20:15	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 79890	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS12-045	02/15/12 21:15	Gross Alpha (Dissolved)	83	2	73.6		112	83 - 133	
		Gross Beta (Dissolved)	131	3	126		104	88 - 115	

Sample ID	RunNo: 80299	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS12-061	03/01/12 20:15	Gross Alpha (Dissolved)	76	2	69		109	83 - 133	
		Gross Beta (Dissolved)	132	3	126		105	88 - 115	

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

Sample ID	RunNo: 79890	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1202020-001FMS	02/15/12 21:15	Gross Alpha (Dissolved)	108	2	73.6	ND	147	48 - 153	
		Gross Beta (Dissolved)	152	3	126	15	109	60 - 140	

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**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1201414
Project: Reno Creek Project

Date: 6/29/2012
Report ID: S1201414002
 (Replaces S1201414001)

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

Sample ID	RunNo: 80299	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1201414-001FMS	03/01/12 20:15	Gross Alpha (Dissolved)	268	2	69	187	117	48 - 153	
		Gross Beta (Dissolved)	166	3	126	58	85.7	60 - 140	

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

Sample ID	RunNo: 79890	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1202042-001FDUP	02/15/12 21:15	Gross Alpha (Dissolved)	ND	2	ND			20	
		Gross Beta (Dissolved)	6	3	6	6.83		20	

Sample ID	RunNo: 80299	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1201414-001FDUP	03/01/12 20:15	Gross Alpha (Dissolved)	186 ± 7.6	2	187	0.551		20	
		Gross Beta (Dissolved)	55.3 ± 3.1	3	58	4.53		20	

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

Sample ID	RunNo: 79552	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	02/03/12 11:44	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 79552	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	02/03/12 11:21	Chloride	30	1	30		101	90 - 110	
		Sulfate	142	1	150		94.5	90 - 110	

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

Sample ID	RunNo: 79552	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1202046-003ASPK	02/03/12 16:51	Chloride	55	1	55	3	92.7	80 - 120	
		Sulfate	474	1	440	55	95.1	80 - 120	

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

Sample ID	RunNo: 79552	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1202046-003A	02/03/12 16:40	Chloride	3	1	3	1.69		20	
		Sulfate	55	1	55	0.975		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: S1201414
Project: Reno Creek Project

Date: 6/29/2012
Report ID: S1201414002
 (Replaces S1201414001)

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

Sample ID	RunNo: 79518	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	02/03/12 12:09	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 79518	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	02/03/12 12:13	Calcium	41	1	40		103	85 - 115	
		Magnesium	41	1	40		102	85 - 115	
		Potassium	40	1	40		101	85 - 115	
		Sodium	39	1	40		98.1	85 - 115	

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

Sample ID	RunNo: 79518	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1202028-005AS	02/03/12 13:18	Calcium	100	1	50	51	97.7	70 - 130	
		Magnesium	86	1	50	39	95.3	70 - 130	
		Potassium	67	1	50	19	96.4	70 - 130	
		Sodium	127	1	50	78	99.5	70 - 130	

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

Sample ID	RunNo: 79518	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1202028-005ASD	02/03/12 13:21	Calcium	99	1	100	0.283	97.1	20	
		Magnesium	86	1	86	0.624	94.2	20	
		Potassium	67	1	67	0.301	96.0	20	
		Sodium	127	1	127	0.00707	99.6	20	

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

Sample ID	RunNo: 79518	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1202028-004AD	02/03/12 13:14	Calcium	36	1	36	0.117		20	
		Magnesium	21	1	21	0.393		20	
		Potassium	13	1	13	0.237		20	
		Sodium	65	1	66	0.359		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: S1201414
Project: Reno Creek Project

Date: 6/29/2012
Report ID: S1201414002
(Replaces S1201414001)

Nitrogen, Ammonia (as N)

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

Sample ID	RunNo: 79507	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	02/03/12 10:09	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 79507	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	02/03/12 10:11	Nitrogen, Ammonia (As N)	9.1	0.1	10		90.8	90 - 110	

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

Sample ID	RunNo: 79507	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1201295-010B	02/03/12 10:26	Nitrogen, Ammonia (As N)	20.4	0.1	10	10.3	100	80 - 120	

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

Sample ID	RunNo: 79507	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1201295-010B	02/03/12 10:25	Nitrogen, Ammonia (As N)	10.1	0.1	10.3	2.33		20	

Nitrogen, Nitrate-Nitrite (as N)

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

Sample ID	RunNo: 79560	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	02/06/12 10:09	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 79560	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	02/06/12 10:11	Nitrogen, Nitrate-Nitrite (as N)	2.2	0.1	2.31		95.2	90 - 110	

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

Sample ID	RunNo: 79560	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1202028-008B	02/06/12 10:32	Nitrogen, Nitrate-Nitrite (as N)	10.6	0.1	10	1.1	95.7	80 - 120	

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

Sample ID	RunNo: 79560	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1202028-008B	02/06/12 10:31	Nitrogen, Nitrate-Nitrite (as N)	1.0	0.1	1.1	2.30		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: S1201414
Project: Reno Creek Project

Date: 6/29/2012
Report ID: S1201414002
(Replaces S1201414001)

Lead 210 and Polonium 210

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

Sample ID	RunNo: 79949	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB12-038 02/16/12 13:28 Lead 210 (Dissolved) ND 1

Sample ID	RunNo: 79949	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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DMB12-038 02/16/12 13:28 Lead 210 (Suspended) ND 1

Sample ID	RunNo: 79950	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB12-038 02/15/12 10:06 Polonium 210 (Dissolved) ND 1

Sample ID	RunNo: 79950	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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DMB12-038 02/15/12 10:06 Polonium 210 (Suspended) ND 1

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

Sample ID	RunNo: 79949	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS12-038 02/16/12 13:28 Lead 210 (Dissolved) 15 1 12.8 115 67.6 - 131
 Lead 210 (Suspended) 15 1 12.8 115 60.3 - 141

Sample ID	RunNo: 79950	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS12-038 PO 02/15/12 10:06 Polonium 210 (Dissolved) 2 1 1.26 148 35.1 - 175
 Polonium 210 (Suspended) 2 1 1.26 148 48.6 - 156

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

Sample ID	RunNo: 79949	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1202041-001FMS 02/16/12 15:42 Lead 210 (Suspended) 14 1 12.8 2 92.2 62.4 - 132

Sample ID	RunNo: 79950	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1202021-001FMS 02/15/12 11:25 Polonium 210 (Suspended) 11 1 11.1 7 39.0 28 - 173

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

Sample ID	RunNo: 79949	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1202042-001FDUP 02/16/12 13:28 Lead 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo: 79950	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1202042-001FDUP 02/15/12 10:06 Polonium 210 (Dissolved) ND 1 ND 20

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1201414
Project: Reno Creek Project

Date: 6/29/2012
Report ID: S1201414002
 (Replaces S1201414001)

Radium 228Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 79815	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB12-037	02/13/12 17:42	Radium 228 (Dissolved)	ND	1					

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

Sample ID	RunNo: 79815	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS12-037	02/13/12 17:42	Radium 228 (Dissolved)	9	1	9.83		92.5	74.9 - 122	

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

Sample ID	RunNo: 79815	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1202021-001FMS	02/13/12 17:42	Radium 228 (Dissolved)	12	1	9.83	1	107	48.4 - 167	

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

Sample ID	RunNo: 79815	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1202041-001FDUP	02/13/12 17:42	Radium 228 (Dissolved)	ND	1	ND			20	

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

Sample ID	RunNo: 79885	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB12-039	02/13/12 15:35	Radium 226 (Suspended)	ND	0.2					

Sample ID	RunNo: 79887	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB12-037	02/15/12 14:03	Radium 226 (Dissolved)	ND	0.2					

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

Sample ID	RunNo: 79885	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS12-039	02/13/12 15:35	Radium 226 (Suspended)	4.9	0.2	5.06		95.9	56.4 - 132	

Sample ID	RunNo: 79887	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS12-037	02/15/12 14:03	Radium 226 (Dissolved)	5.3	0.2	5.06		105	62.5 - 125	

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

Sample ID	RunNo: 79885	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1202020-001FMS	02/13/12 15:35	Radium 226 (Suspended)	4.6	0.2	5.03	ND	92.1	51.4 - 135	

Sample ID	RunNo: 79887	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1202008-002CMS	02/15/12 14:03	Radium 226 (Dissolved)	5.3	0.2	5.06	0.6	91.8	41.6 - 146	

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

Sample ID	RunNo: 79885	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1202019-001FDUP	02/13/12 15:35	Radium 226 (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: S1201414
Project: Reno Creek Project

Date: 6/29/2012
Report ID: S1201414002
 (Replaces S1201414001)

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

Sample ID	RunNo: 79887	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1202008-001CDUP	02/15/12 14:03	Radium 226 (Dissolved)	601	0.2	585	2.72		20	

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

Sample ID	RunNo: 79772	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB12-039	02/10/12 13:25	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 79772	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB12-039	02/14/12 8:13	Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 79772	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS12-039	02/10/12 13:25	Thorium 230 (Dissolved)	11	0.2	12		91.5	67.1 - 134	
		Thorium 230 (Suspended)	11	0.2	12		91.5	69.2 - 127	

Radon 222 in Water - TotalSample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 79685	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R79685	02/01/12 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 79685	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R79685	02/01/12 0:00	Radon-222	23300	100	22500		104	75 - 125	L

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

Sample ID	RunNo: 79685	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1201414-001A	02/01/12 0:00	Radon-222	2450	50	2620	6.49		20	L

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

Sample ID	RunNo: 79521	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	02/03/12 12:09	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 79521	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	02/03/12 12:11	Silica as SiO2	2.2	0.1	2.14		102	85 - 115	

Qualifiers:

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1201414
Project: Reno Creek Project

Date: 6/29/2012
Report ID: S1201414002
 (Replaces S1201414001)

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

Sample ID	RunNo: 79546	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	02/02/12 14:51	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 79546	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	02/02/12 14:52	Total Dissolved Solids (180)	220	10	226		98.2	90 - 110	

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

Sample ID	RunNo: 79546	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1201415-004A	02/02/12 14:58	Total Dissolved Solids (180)	190	10	190	1.05		20	

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

Sample ID	RunNo: 79583	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-5822	02/06/12 16:08	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 79583	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-5822	02/06/12 16:10	Iron	0.48	0.05	0.5		96.6	85 - 115	
		Manganese	0.19	0.02	0.2		95.6	85 - 115	

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

Sample ID	RunNo: 79583	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1202062-002DS	02/06/12 16:24	Iron	1.57	0.05	0.5	1.20	74.6	70 - 130	
		Manganese	0.24	0.02	0.2	0.05	94.5	70 - 130	

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

Sample ID	RunNo: 79583	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1202062-002DMSD	02/06/12 16:27	Iron	1.45	0.05	1.57	7.43		20	
		Manganese	0.24	0.02	0.24	1.73		20	

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

Sample ID	RunNo: 79583	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1202062-001DD	02/06/12 16:20	Iron	0.22	0.05	0.21	1.92		20	
		Manganese	0.05	0.02	0.05	0.371		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: S1201414
Project: Reno Creek Project

Date: 6/29/2012
Report ID: S1201414002
(Replaces S1201414001)

Suspended Natural Uranium

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

Sample ID	RunNo: 79645	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	02/07/12 12:36	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 79645	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	02/07/12 12:32	Uranium Suspended	0.0979	0.0003	0.1		97.9	85 - 115	

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

Sample ID	RunNo: 79645	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1202043-001FS	02/07/12 13:45	Uranium Suspended	1.11	0.0003	1.1	0.0015	101	70 - 130	

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

Sample ID	RunNo: 79645	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1202043-001FMSD	02/07/12 13:49	Uranium Suspended	1.09	0.0003	1.11	2.02	99.1	20	

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

Sample ID	RunNo: 79645	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1202043-001FD	02/07/12 13:40	Uranium Suspended	0.0008	0.0003	0.0015	47.5		20	R

pH Water

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

Sample ID	RunNo: 79579	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	02/06/12 15:42	pH	8.7	0.1	8.48		103	90 - 110	

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

Sample ID	RunNo: 79579	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1202033-002BD	02/06/12 19:06	pH	8.2	0.1	8.2	0.672		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
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 Sheridan, WY 82801
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- CHAIN OF CUSTODY RECORD -

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08181

Client Name AUC LLC		Project Identification Reno Creek Project		Sampler (Signature/Printed) <i>Jaci Nickerson</i>		Telephone #	
Report Address tnickerson@treccorp.com; jshriver@treccorp.com		Contact Name <i>Jaci Nickerson</i>		ANALYSES / PARAMETERS			
Invoice Address AUC LLC		Purchase Order #		See Attached Table 1 (4,14, Guide 8, Radon 222)			
900 Warren Ct. Ste 150 Casper WY 82601		Email <i>tnickerson@treccorp.com</i>		See Attached Table 2 (Air Particulate)			
		Phone		See Attached Table 3 (Vegetation)			
		Quote #		See Attached Table 4 (Sediment)			
		Matrix		See Attached Table 5 (Soil)			
		# of Containers		See Attached Table 6 WYPDES Discharge			
		SAMPLE IDENTIFICATION		See Attached Table 7 (Blanks)			
ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED				REMARKS
1	1414 L5*						<i>Groundwater</i>
2	S12020	1/31/12	1345	PZM7-004-120131	WT 13 X		
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
LAB COMMENTS		Relinquished By (Signature/Printed) <i>Jaci Nickerson</i>		DATE 1/31/12		TIME 10:44	
				DATE 2/2/12		TIME 11:00	
SHIPPING INFO		MATRIX CODES		TURNAROUND TIMES		COMPLIANCE INFORMATION	
<input type="checkbox"/> UPS	water	WT	<input checked="" type="checkbox"/> Check desired service	Compliance Monitoring?	Y/N	Y	N
<input type="checkbox"/> Fed Express	Soil	SL	<input type="checkbox"/> Standard turnaround	Program (SDWA, NPDES,...)			
<input type="checkbox"/> US Mail	Solid	SD	<input type="checkbox"/> RUSH - 5 Working Days	PWSID / Permit #			
<input type="checkbox"/> Hand Carried	Trip Blank	TB	<input type="checkbox"/> URGENT - < 2 Working Days	Chlorinated?		Y	N
<input checked="" type="checkbox"/> Other	Other	OT	Rush & Urgent Surcharges will be applied	Sample Disposal: Lab		X	Client
				ADDITIONAL REMARKS			