



Friday, September 09, 2011

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

RE: Reno Creek Project
Orde

r No.: S1108191

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples PZM18-004-110810 on August 10, 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: 9/9/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1108191

CASE NARRATIVE
Report ID: S1108191001

Sample PZM18-004-110810 was received on August 10, 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

- S1108191-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- LCS-R73906 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- MB-R73906 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- S1108192-001 - Cations/Sodium - Spike Recovery outside accepted recovery limits (1)
- S1108111-001 - Radiochemistry/Polonium 210 (Dissolved) - Spike Recovery outside accepted recovery limits (2)

(1) Spike recovery outside acceptance criteria due to presence of analyte in the sample that greatly exceeded level of spike used. Data approved because all other QC were within acceptance limits.

(2) Spike failed due to matrix interference from the sample.

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: S1108191-001
ClientSample ID: PZM18-004-110810
COC: RC 08345

Date Reported 9/9/2011
Report ID S1108191001
WorkOrder: S1108191
CollectionDate: 8/10/2011 8:49:00 AM
DateReceived: 8/10/2011 5:07:00 PM
FieldSampler: RM
Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Contains 25 rows of field data including pH, Conductivity, Turbidity, Dissolved Oxygen, Temperature, and Water Level readings.

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
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Lab ID: S1108191-001
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Report ID S1108191001
WorkOrder: S1108191
CollectionDate: 8/10/2011 8:49:00 AM
DateReceived: 8/10/2011 5:07:00 PM
FieldSampler: RM
Matrix: Water

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

These results apply only to the samples tested.

RL - Reporting Limit

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

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

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



Sample Analysis Report

Company: AUC LLC
 1536 Cole Blvd
 Lakewood, CO 80401

ProjectName: Reno Creek Project
Lab ID: S1108191-001
ClientSample ID: PZM18-004-110810
COC: RC 08345

Date Reported: 9/9/2011
Report ID: S1108191001

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CollectionDate: 8/10/2011 8:49:00 AM
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FieldSampler: RM
Matrix: Water

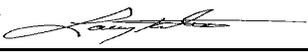
| Analyses | Result | Units | Qual | RL | Method | Date Analyzed/Init | |
|---------------------------|--------|-------|------|--------|-----------|-----------------------|----|
| Metals - Dissolved | | | | | | | |
| Aluminum | ND | mg/L | | 0.1 | EPA 200.7 | 8/12/2011 2:02:08 PM | DG |
| Arsenic | 0.003 | mg/L | | 0.001 | EPA 200.8 | 8/11/2011 3:31:31 PM | MS |
| Barium | ND | mg/L | | 0.1 | EPA 200.8 | 8/11/2011 3:31:31 PM | MS |
| Boron | ND | mg/L | | 0.1 | EPA 200.7 | 8/12/2011 2:02:08 PM | DG |
| Cadmium | ND | mg/L | | 0.001 | EPA 200.8 | 8/11/2011 3:31:31 PM | MS |
| Chromium | ND | mg/L | | 0.01 | EPA 200.7 | 8/12/2011 2:02:08 PM | DG |
| Copper | ND | mg/L | | 0.01 | EPA 200.8 | 8/11/2011 3:31:31 PM | MS |
| Iron | ND | mg/L | | 0.05 | EPA 200.7 | 8/12/2011 2:02:08 PM | DG |
| Lead | ND | mg/L | | 0.01 | EPA 200.8 | 8/11/2011 3:31:31 PM | MS |
| Manganese | ND | mg/L | | 0.01 | EPA 200.7 | 8/12/2011 2:02:08 PM | DG |
| Mercury | ND | mg/L | | 0.001 | EPA 245.1 | 8/16/2011 10:05:42 AM | AB |
| Molybdenum | ND | mg/L | | 0.01 | EPA 200.8 | 8/11/2011 3:31:31 PM | MS |
| Nickel | ND | mg/L | | 0.05 | EPA 200.7 | 8/12/2011 2:02:08 PM | DG |
| Selenium | ND | mg/L | | 0.005 | EPA 200.8 | 8/11/2011 3:31:31 PM | MS |
| Uranium | 0.0102 | mg/L | | 0.0003 | EPA 200.8 | 8/11/2011 3:31:31 PM | MS |
| Vanadium | ND | mg/L | | 0.1 | EPA 200.8 | 8/11/2011 3:31:31 PM | MS |
| Zinc | ND | mg/L | | 0.01 | EPA 200.7 | 8/12/2011 2:02:08 PM | DG |
| Metals - Suspended | | | | | | | |
| Uranium | 0.0004 | mg/L | | 0.0003 | EPA 200.8 | 8/23/2011 11:24:20 AM | MS |
| Metals - Total | | | | | | | |
| Iron | ND | mg/L | | 0.05 | EPA 200.7 | 8/16/2011 3:37:37 PM | DG |
| Manganese | ND | mg/L | | 0.01 | EPA 200.7 | 8/16/2011 3:37:37 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
ProjectName: Reno Creek Project
Lab ID: S1108191-001
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DateReceived: 8/10/2011 5:07:00 PM
FieldSampler: RM
Matrix: Water

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

These results apply only to the samples tested.

RL - Reporting Limit

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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: S1108191
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108191001

Alkalinity

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

| Sample ID | RunNo: 73290 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|------------------------------|--------|----|-------|----------|------|--------------|------|
| BLANK | 08/11/11 13:59 | Alkalinity, Total (As CaCO3) | ND | 5 | | | | | |

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

| Sample ID | RunNo: 73290 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|------------------------------|--------|----|-------|----------|------|--------------|------|
| ATQC | 08/11/11 13:50 | Alkalinity, Total (As CaCO3) | 589 | 5 | 601 | | 98.0 | 90 - 110 | |

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

| Sample ID | RunNo: 73290 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|----------------|----------------|---------------------------------|--------|----|----------|-------|------|--------------|------|
| S1108206-009AD | 08/11/11 19:15 | Alkalinity, Bicarbonate as HCO3 | 266 | 5 | 266 | 0.108 | | 20 | |
| | | Alkalinity, Total (As CaCO3) | 218 | 5 | 218 | 0.108 | | 20 | |

Conductivity

Sample Type **MBLK** Units: µmhos/cm

| Sample ID | RunNo: 73290 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|-------------------------|--------|----|-------|----------|------|--------------|------|
| BLANK | 08/11/11 13:59 | Electrical Conductivity | ND | 5 | | | | | |

Sample Type **LCS** Units: µmhos/cm

| Sample ID | RunNo: 73290 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|-------------------------|--------|----|-------|----------|------|--------------|------|
| ATQC | 08/11/11 13:50 | Electrical Conductivity | 1090 | 5 | 1120 | | 97.5 | 90 - 110 | |

Sample Type **DUP** Units: µmhos/cm

| Sample ID | RunNo: 73290 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|----------------|----------------|-------------------------|--------|----|----------|-------|------|--------------|------|
| S1108209-003AD | 08/11/11 20:43 | Electrical Conductivity | 2040 | 5 | 2050 | 0.488 | | 20 | |

- Qualifiers:**
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ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108191
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108191001

Dissolved Mercury by EPA 245.1 - Water

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

| Sample ID | RunNo: 73449 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|---------|--------|-------|-------|----------|------|--------------|------|
| LRB | 08/16/11 10:03 | Mercury | ND | 0.001 | | | | | |

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

| Sample ID | RunNo: 73449 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|---------------|---------|--------|-------|-------|----------|------|--------------|------|
| LCS | 08/16/11 9:56 | Mercury | 0.002 | 0.001 | 0.002 | | 98.3 | 85 - 115 | |

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

| Sample ID | RunNo: 73449 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|---------------|----------------|---------|--------|-------|---------|----------|------|--------------|------|
| S1108191-001D | 08/16/11 10:09 | Mercury | 0.002 | 0.001 | 0.00244 | ND | 95.3 | 70 - 130 | |

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

| Sample ID | RunNo: 73449 | Analyte | Result | RL | Conc | %RPD | %REC | % RPD Limits | Qual |
|---------------|----------------|---------|--------|-------|-------|------|------|--------------|------|
| S1108191-001D | 08/16/11 10:11 | Mercury | 0.002 | 0.001 | 0.002 | 1.23 | 94.1 | 20 | |

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

| Sample ID | RunNo: 73449 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|---------------|----------------|---------|--------|-------|----------|------|------|--------------|------|
| S1108191-001D | 08/16/11 10:07 | Mercury | ND | 0.001 | 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
 - R RPD outside accepted recovery limits

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1108191
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108191001

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

| Sample ID | RunNo: 73346 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|---------------|----------------|-----------|--------|------|-------|----------|------|--------------|------|
| MBLK DISS/CAT | 08/12/11 13:11 | 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: 73346 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|------------|----------------|-----------|--------|------|-------|----------|------|--------------|------|
| DISS LCS Q | 08/12/11 13:13 | Aluminum | 1.0 | 0.1 | 1 | | 103 | 85 - 115 | |
| | | Boron | 1.0 | 0.1 | 1 | | 99.2 | 85 - 115 | |
| | | Chromium | 1.05 | 0.01 | 1 | | 105 | 85 - 115 | |
| | | Iron | 1.04 | 0.05 | 1 | | 104 | 85 - 115 | |
| | | Manganese | 1.03 | 0.02 | 1 | | 103 | 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: 73346 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|----------------|----------------|-----------|--------|------|-------|----------|------|--------------|------|
| S1108192-001DS | 08/12/11 14:09 | Aluminum | 0.5 | 0.1 | 0.5 | ND | 103 | 70 - 130 | |
| | | Boron | 0.5 | 0.1 | 0.5 | ND | 94.0 | 70 - 130 | |
| | | Chromium | 0.48 | 0.01 | 0.5 | ND | 96.7 | 70 - 130 | |
| | | Iron | 0.49 | 0.05 | 0.5 | ND | 96.4 | 70 - 130 | |
| | | Manganese | 0.89 | 0.02 | 0.5 | 0.47 | 85.4 | 70 - 130 | |
| | | Nickel | 0.48 | 0.01 | 0.5 | ND | 96.5 | 70 - 130 | |
| | | Zinc | 0.48 | 0.01 | 0.5 | ND | 96.1 | 70 - 130 | |

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

| Sample ID | RunNo: 73346 | Analyte | Result | RL | Conc | %RPD | %REC | % RPD Limits | Qual |
|-----------------|----------------|-----------|--------|------|------|------|------|--------------|------|
| S1108192-001DSD | 08/12/11 14:11 | Aluminum | 0.5 | 0.1 | 0.5 | 4.70 | 108 | 20 | |
| | | Boron | 0.6 | 0.1 | 0.5 | 6.05 | 100 | 20 | |
| | | Chromium | 0.51 | 0.01 | 0.48 | 5.69 | 102 | 20 | |
| | | Iron | 0.52 | 0.05 | 0.49 | 5.96 | 102 | 20 | |
| | | Manganese | 0.93 | 0.02 | 0.89 | 3.89 | 92.3 | 20 | |
| | | Nickel | 0.51 | 0.01 | 0.48 | 5.95 | 102 | 20 | |
| | | Zinc | 0.51 | 0.01 | 0.48 | 6.32 | 102 | 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: S1108191
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108191001

Dissolved Metals by ICP - EPA 200.7 - Water

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

| Sample ID | RunNo: 73346 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|----------------|----------------|-----------|--------|------|----------|------|------|--------------|------|
| S1108191-001DD | 08/12/11 14:04 | Aluminum | ND | 0.1 | ND | | | 20 | |
| | | Boron | ND | 0.1 | ND | | | 20 | |
| | | Chromium | ND | 0.01 | ND | | | 20 | |
| | | Iron | ND | 0.05 | ND | | | 20 | |
| | | Manganese | ND | 0.02 | ND | | | 20 | |
| | | Nickel | ND | 0.01 | ND | | | 20 | |
| | | Zinc | ND | 0.01 | ND | | | 20 | |

Dissolved Metals by ICPMS EPA 200.8 - Water

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

| Sample ID | RunNo: 73295 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|------------|--------|-------|-------|----------|------|--------------|------|
| BLK | 08/11/11 12:16 | 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: 73295 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|------------|--------|-------|-------|----------|------|--------------|------|
| LCS | 08/11/11 12:12 | Arsenic | 0.099 | 0.005 | 0.1 | | 98.5 | 85 - 115 | |
| | | Barium | ND | 0.5 | 0.1 | | 99.1 | 85 - 115 | |
| | | Cadmium | 0.097 | 0.002 | 0.1 | | 96.6 | 85 - 115 | |
| | | Copper | 0.10 | 0.01 | 0.1 | | 96.1 | 85 - 115 | |
| | | Lead | 0.10 | 0.02 | 0.1 | | 96.9 | 85 - 115 | |
| | | Molybdenum | 0.10 | 0.02 | 0.1 | | 99.3 | 85 - 115 | |
| | | Selenium | 0.103 | 0.005 | 0.1 | | 103 | 85 - 115 | |
| | | Uranium | 0.094 | 0.001 | 0.1 | | 94.1 | 85 - 115 | |
| | | Vanadium | 0.10 | 0.02 | 0.1 | | 96.7 | 85 - 115 | |

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ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108191
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108191001

Dissolved Metals by ICPMS EPA 200.8 - Water

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

| Sample ID | RunNo: 73295 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|----------------|----------------|------------|--------|-------|-------|----------|------|--------------|------|
| S1108191-001DS | 08/11/11 15:39 | Arsenic | 1.13 | 0.005 | 1.1 | ND | 102 | 70 - 130 | |
| | | Barium | 1.2 | 0.5 | 1.1 | ND | 104 | 70 - 130 | |
| | | Cadmium | 1.12 | 0.002 | 1.1 | ND | 101 | 70 - 130 | |
| | | Copper | 1.10 | 0.01 | 1.1 | ND | 100 | 70 - 130 | |
| | | Lead | 1.08 | 0.02 | 1.1 | ND | 98.4 | 70 - 130 | |
| | | Molybdenum | 1.18 | 0.02 | 1.1 | ND | 106 | 70 - 130 | |
| | | Selenium | 1.17 | 0.005 | 1.1 | ND | 106 | 70 - 130 | |
| | | Uranium | 1.08 | 0.001 | 1.1 | 0.010 | 97.2 | 70 - 130 | |
| | | Vanadium | 1.16 | 0.02 | 1.1 | ND | 106 | 70 - 130 | |

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

| Sample ID | RunNo: 73295 | Analyte | Result | RL | Conc | %RPD | %REC | % RPD Limits | Qual |
|------------------|----------------|------------|--------|-------|------|-------|------|--------------|------|
| S1108191-001DMSD | 08/11/11 15:43 | Arsenic | 1.12 | 0.005 | 1.13 | 0.984 | 101 | 20 | |
| | | Barium | 1.2 | 0.5 | 1.2 | 0.712 | 105 | 20 | |
| | | Cadmium | 1.11 | 0.002 | 1.12 | 0.677 | 101 | 20 | |
| | | Copper | 1.09 | 0.01 | 1.10 | 1.41 | 98.8 | 20 | |
| | | Lead | 1.08 | 0.02 | 1.08 | 0.594 | 97.9 | 20 | |
| | | Molybdenum | 1.19 | 0.02 | 1.18 | 0.630 | 107 | 20 | |
| | | Selenium | 1.16 | 0.005 | 1.17 | 0.704 | 106 | 20 | |
| | | Uranium | 1.09 | 0.001 | 1.08 | 0.768 | 97.9 | 20 | |
| | | Vanadium | 1.12 | 0.02 | 1.16 | 3.65 | 102 | 20 | |

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

| Sample ID | RunNo: 73295 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|----------------|----------------|------------|--------|-------|----------|------|------|--------------|------|
| S1108191-001DD | 08/11/11 15:35 | Arsenic | ND | 0.005 | ND | | | 20 | |
| | | Barium | ND | 0.5 | ND | | | 20 | |
| | | Cadmium | ND | 0.002 | ND | | | 20 | |
| | | Copper | ND | 0.01 | ND | | | 20 | |
| | | Lead | ND | 0.02 | ND | | | 20 | |
| | | Molybdenum | ND | 0.02 | ND | | | 20 | |
| | | Selenium | ND | 0.005 | ND | | | 20 | |
| | | Uranium | 0.010 | 0.001 | 0.010 | 3.03 | | 20 | |
| | | Vanadium | ND | 0.02 | ND | | | 20 | |

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 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1108191
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108191001

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

| Sample ID | RunNo: 73290 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|----------|--------|-----|-------|----------|------|--------------|------|
| BLANK | 08/11/11 13:59 | Fluoride | ND | 0.1 | | | | | |

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

| Sample ID | RunNo: 73290 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|----------|--------|-----|-------|----------|------|--------------|------|
| ATQC | 08/11/11 13:50 | Fluoride | 3.0 | 0.1 | 2.96 | | 100 | 90 - 110 | |

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

| Sample ID | RunNo: 73290 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|------------------|----------------|----------|--------|-----|-------|----------|------|--------------|------|
| S1108206-009ASPK | 08/11/11 19:23 | Fluoride | 2.8 | 0.1 | 2.5 | 0.2 | 104 | 80 - 120 | |

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

| Sample ID | RunNo: 73290 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|----------------|----------------|----------|--------|-----|----------|------|------|--------------|------|
| S1108206-009AD | 08/11/11 19:15 | Fluoride | 0.2 | 0.1 | 0.2 | 1.04 | | 20 | |

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

| Sample ID | RunNo: 73719 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|-------------------------|--------|----|-------|----------|------|--------------|------|
| MB11-228 | 08/17/11 20:44 | Gross Alpha (Dissolved) | ND | 2 | | | | | |
| | | Gross Beta (Dissolved) | ND | 3 | | | | | |

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

| Sample ID | RunNo: 73719 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|-------------------------|--------|----|-------|----------|------|--------------|------|
| LCS11-228 | 08/17/11 20:44 | Gross Alpha (Dissolved) | 86 | 2 | 73.6 | | 116 | 83 - 133 | |
| | | Gross Beta (Dissolved) | 134 | 3 | 126 | | 107 | 88 - 115 | |

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

| Sample ID | RunNo: 73719 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------------|---------------|-------------------------|--------|----|-------|----------|------|--------------|------|
| S1108194-001FMS | 08/23/11 9:37 | Gross Alpha (Dissolved) | 68 | 2 | 73.6 | ND | 91.7 | 48 - 153 | |
| | | Gross Beta (Dissolved) | 141 | 3 | 126 | ND | 112 | 60 - 140 | |

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

| Sample ID | RunNo: 73719 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|------------------|----------------|-------------------------|--------|----|----------|------|------|--------------|------|
| S1106511-003GDUP | 08/17/11 20:44 | Gross Alpha (Dissolved) | 2260 | 2 | 2340 | 3.32 | | 20 | |
| | | Gross Beta (Dissolved) | 358 | 4 | 346 | 3.50 | | 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: S1108191
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108191001

Anions by ION Chromatography

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

| Sample ID | RunNo: 73356 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|----------|--------|----|-------|----------|------|--------------|------|
| BLANK | 08/12/11 12:03 | Chloride | ND | 1 | | | | | |
| | | Sulfate | ND | 1 | | | | | |

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

| Sample ID | RunNo: 73356 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|----------|--------|----|-------|----------|------|--------------|------|
| DIONEX | 08/12/11 12:17 | Chloride | 29 | 1 | 30 | | 97.9 | 90 - 110 | |
| | | Sulfate | 143 | 1 | 150 | | 95.5 | 90 - 110 | |

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

| Sample ID | RunNo: 73356 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|------------------|----------------|----------|--------|----|-------|----------|------|--------------|------|
| S1108127-005ASPK | 08/12/11 18:45 | Chloride | 248 | 1 | 80 | 159 | 112 | 80 - 120 | |
| | | Sulfate | 1270 | 1 | 640 | 532 | 115 | 80 - 120 | |

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

| Sample ID | RunNo: 73356 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|----------------|----------------|----------|--------|----|----------|--------|------|--------------|------|
| S1108127-005AD | 08/12/11 18:32 | Chloride | 159 | 1 | 159 | 0.0787 | | 20 | |
| | | Sulfate | 531 | 1 | 532 | 0.0645 | | 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: S1108191
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108191001

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

| Sample ID | RunNo: 73345 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|---------------|----------------|-----------|--------|----|-------|----------|------|--------------|------|
| MBLK DISS/CAT | 08/12/11 13:11 | Calcium | ND | 1 | | | | | |
| | | Magnesium | ND | 1 | | | | | |
| | | Potassium | ND | 1 | | | | | |
| | | Sodium | ND | 1 | | | | | |

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

| Sample ID | RunNo: 73345 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|--------------|----------------|-----------|--------|----|-------|----------|------|--------------|------|
| CAT LCS IML3 | 08/12/11 13:15 | Calcium | 39 | 1 | 40 | | 98.5 | 85 - 115 | |
| | | Magnesium | 41 | 1 | 40 | | 103 | 85 - 115 | |
| | | Potassium | 40 | 1 | 40 | | 99.9 | 85 - 115 | |
| | | Sodium | 40 | 1 | 40 | | 99.7 | 85 - 115 | |

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

| Sample ID | RunNo: 73345 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|----------------|----------------|-----------|--------|----|-------|----------|------|--------------|------|
| S1108192-001AS | 08/12/11 14:09 | Calcium | 76 | 1 | 25 | 57 | 78.0 | 70 - 130 | |
| | | Magnesium | 35 | 1 | 25 | 10 | 101 | 70 - 130 | |
| | | Potassium | 36 | 1 | 25 | 6 | 120 | 70 - 130 | |
| | | Sodium | 234 | 1 | 25 | 231 | 13.6 | 70 - 130 | S |

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

| Sample ID | RunNo: 73345 | Analyte | Result | RL | Conc | %RPD | %REC | % RPD Limits | Qual |
|-----------------|----------------|-----------|--------|----|------|-------|------|--------------|------|
| S1108192-001ASD | 08/12/11 14:11 | Calcium | 78 | 1 | 76 | 2.00 | 84.1 | 20 | |
| | | Magnesium | 37 | 1 | 35 | 4.44 | 107 | 20 | |
| | | Potassium | 38 | 1 | 36 | 4.08 | 125 | 20 | |
| | | Sodium | 236 | 1 | 234 | 0.846 | 21.5 | 20 | |

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

| Sample ID | RunNo: 73345 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|----------------|----------------|-----------|--------|----|----------|-------|------|--------------|------|
| S1108191-001AD | 08/12/11 14:04 | Calcium | 85 | 1 | 88 | 3.40 | | 20 | |
| | | Magnesium | 7 | 1 | 8 | 3.87 | | 20 | |
| | | Potassium | 10 | 1 | 10 | 4.05 | | 20 | |
| | | Sodium | 165 | 1 | 164 | 0.695 | | 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: S1108191
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108191001

Nitrogen, Ammonia (as N)

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

| Sample ID | RunNo: 73494 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|--------------------------|--------|-----|-------|----------|------|--------------|------|
| BLANK | 08/16/11 16:30 | Nitrogen, Ammonia (As N) | ND | 0.1 | | | | | |

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

| Sample ID | RunNo: 73494 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|--------------------------|--------|-----|-------|----------|------|--------------|------|
| QC | 08/16/11 16:32 | Nitrogen, Ammonia (As N) | 8.4 | 0.1 | 8.93 | | 93.6 | 90 - 110 | |

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

| Sample ID | RunNo: 73494 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|---------------|----------------|--------------------------|--------|-----|-------|----------|------|--------------|------|
| S1108192-001C | 08/16/11 17:06 | Nitrogen, Ammonia (As N) | 10.6 | 0.1 | 10 | ND | 106 | 80 - 120 | |

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

| Sample ID | RunNo: 73494 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|---------------|----------------|--------------------------|--------|-----|----------|------|------|--------------|------|
| S1108192-001C | 08/16/11 17:05 | Nitrogen, Ammonia (As N) | ND | 0.1 | ND | | | 20 | |

Nitrogen, Nitrate-Nitrite (as N)

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

| Sample ID | RunNo: 73520 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|----------------------------------|--------|-----|-------|----------|------|--------------|------|
| BLK | 08/17/11 10:43 | Nitrogen, Nitrate-Nitrite (as N) | ND | 0.1 | | | | | |

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

| Sample ID | RunNo: 73520 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|----------------------------------|--------|-----|-------|----------|------|--------------|------|
| QC | 08/17/11 10:45 | Nitrogen, Nitrate-Nitrite (as N) | 10.2 | 0.1 | 10 | | 102 | 90 - 110 | |

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

| Sample ID | RunNo: 73520 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|---------------|----------------|----------------------------------|--------|------|-------|----------|------|--------------|------|
| S1108181-005C | 08/17/11 11:36 | Nitrogen, Nitrate-Nitrite (as N) | 10.1 | 0.05 | 10 | ND | 101 | 80 - 120 | |

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

| Sample ID | RunNo: 73520 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|---------------|----------------|----------------------------------|--------|------|----------|------|------|--------------|------|
| S1108181-005C | 08/17/11 11:35 | Nitrogen, Nitrate-Nitrite (as N) | ND | 0.05 | 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: S1108191
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108191001

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

| Sample ID | RunNo: 74007 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|----------|----------------|----------------------|----|---|--|--|--|--|--|
| MB11-228 | 08/30/11 18:27 | Lead 210 (Dissolved) | ND | 1 | | | | | |
|----------|----------------|----------------------|----|---|--|--|--|--|--|

| Sample ID | RunNo: 74008 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|----------|----------------|--------------------------|----|---|--|--|--|--|--|
| MB11-228 | 08/30/11 14:43 | Polonium 210 (Dissolved) | ND | 1 | | | | | |
|----------|----------------|--------------------------|----|---|--|--|--|--|--|

| Sample ID | RunNo: 74010 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|----------|----------------|--------------------------|----|---|--|--|--|--|--|
| MB11-230 | 08/31/11 15:25 | Polonium 210 (Suspended) | ND | 1 | | | | | |
|----------|----------------|--------------------------|----|---|--|--|--|--|--|

| Sample ID | RunNo: 74009 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|----------|---------------|----------------------|----|---|--|--|--|--|--|
| MB11-230 | 09/01/11 8:52 | Lead 210 (Suspended) | ND | 1 | | | | | |
|----------|---------------|----------------------|----|---|--|--|--|--|--|

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

| Sample ID | RunNo: 74007 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|-----------|----------------|----------------------|----|---|----|--|-----|------------|--|
| LCS11-228 | 08/30/11 18:27 | Lead 210 (Dissolved) | 15 | 1 | 13 | | 112 | 67.6 - 131 | |
|-----------|----------------|----------------------|----|---|----|--|-----|------------|--|

| Sample ID | RunNo: 74008 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|-----------|----------------|--------------------------|----|---|----|--|-----|------------|--|
| LCS11-228 | 08/30/11 14:43 | Polonium 210 (Dissolved) | 13 | 1 | 13 | | 100 | 35.1 - 175 | |
|-----------|----------------|--------------------------|----|---|----|--|-----|------------|--|

| Sample ID | RunNo: 74010 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|--------------|----------------|--------------------------|---|---|------|--|-----|------------|--|
| LCS11-230 PO | 08/31/11 15:25 | Polonium 210 (Suspended) | 4 | 1 | 2.99 | | 128 | 48.6 - 156 | |
|--------------|----------------|--------------------------|---|---|------|--|-----|------------|--|

| Sample ID | RunNo: 74009 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|-----------|----------------|----------------------|----|---|----|--|------|------------|--|
| LCS11-230 | 08/31/11 19:11 | Lead 210 (Suspended) | 13 | 1 | 13 | | 98.6 | 60.3 - 141 | |
|-----------|----------------|----------------------|----|---|----|--|------|------------|--|

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

| Sample ID | RunNo: 74007 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|-----------------|----------------|----------------------|----|---|----|---|-----|----------|--|
| S1108111-001EMS | 08/30/11 18:27 | Lead 210 (Dissolved) | 15 | 1 | 13 | 2 | 103 | 66 - 133 | |
|-----------------|----------------|----------------------|----|---|----|---|-----|----------|--|

| Sample ID | RunNo: 74008 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|-----------------|----------------|--------------------------|---|---|----|----|------|------------|---|
| S1108111-001EMS | 08/30/11 14:43 | Polonium 210 (Dissolved) | 2 | 1 | 13 | ND | 18.0 | 20.9 - 160 | S |
|-----------------|----------------|--------------------------|---|---|----|----|------|------------|---|

| Sample ID | RunNo: 74010 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|-----------------|----------------|--------------------------|----|---|----|----|-----|----------|--|
| S1108111-001EMS | 08/31/11 15:25 | Polonium 210 (Suspended) | 15 | 1 | 13 | ND | 115 | 28 - 173 | |
|-----------------|----------------|--------------------------|----|---|----|----|-----|----------|--|

| Sample ID | RunNo: 74009 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|-----------------|----------------|----------------------|----|---|----|----|-----|------------|--|
| S1108111-001EMS | 08/31/11 19:11 | Lead 210 (Suspended) | 14 | 1 | 13 | ND | 106 | 62.4 - 132 | |
|-----------------|----------------|----------------------|----|---|----|----|-----|------------|--|

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: S1108191
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108191001

Lead 210 and Polonium 210

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

| Sample ID | RunNo: 74007 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|-----------|--------------|---------|--------|----|----------|------|------|--------------|------|
|-----------|--------------|---------|--------|----|----------|------|------|--------------|------|

S1108167-001FDUP 08/30/11 18:27 Lead 210 (Dissolved) ND 1 ND 20

| Sample ID | RunNo: 74008 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|-----------|--------------|---------|--------|----|----------|------|------|--------------|------|
|-----------|--------------|---------|--------|----|----------|------|------|--------------|------|

S1108167-001FDUP 08/30/11 14:43 Polonium 210 (Dissolved) ND 1 ND 20

| Sample ID | RunNo: 74010 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|-----------|--------------|---------|--------|----|----------|------|------|--------------|------|
|-----------|--------------|---------|--------|----|----------|------|------|--------------|------|

S1108111-003EDUP 08/31/11 15:25 Polonium 210 (Suspended) ND 1 ND 20

| Sample ID | RunNo: 74009 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|-----------|--------------|---------|--------|----|----------|------|------|--------------|------|
|-----------|--------------|---------|--------|----|----------|------|------|--------------|------|

S1108111-003EDUP 08/31/11 17:03 Lead 210 (Suspended) ND 1 1 20

Radium 228

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

| Sample ID | RunNo: 74212 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

MB11-241 09/01/11 15:37 Radium 228 (Dissolved) ND 1

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

| Sample ID | RunNo: 74212 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

LCS11-241 09/01/11 15:37 Radium 228 (Dissolved) 11 1 10.1 109 74.9 - 122

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

| Sample ID | RunNo: 74212 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|-----------|--------------|---------|--------|----|----------|------|------|--------------|------|
|-----------|--------------|---------|--------|----|----------|------|------|--------------|------|

S1108535-001FDUP 09/01/11 15:37 Radium 228 (Dissolved) 1 1 2 9.94 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: S1108191
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108191001

Radium 226 by SM 7500

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

| Sample ID | RunNo: 73657 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|------------------------|--------|-----|-------|----------|------|--------------|------|
| DMB11-228 | 08/22/11 12:44 | Radium 226 (Suspended) | ND | 0.2 | | | | | |

| Sample ID | RunNo: 73788 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|------------------------|--------|-----|-------|----------|------|--------------|------|
| MB11-228 | 08/22/11 12:18 | Radium 226 (Dissolved) | ND | 0.2 | | | | | |

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

| Sample ID | RunNo: 73657 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|------------|----------------|------------------------|--------|-----|-------|----------|------|--------------|------|
| DLCS11-228 | 08/22/11 12:44 | Radium 226 (Suspended) | 4.9 | 0.2 | 5 | | 98.5 | 56.4 - 132 | |

| Sample ID | RunNo: 73788 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|------------------------|--------|-----|-------|----------|------|--------------|------|
| LCS11-228 | 08/22/11 12:18 | Radium 226 (Dissolved) | 4.7 | 0.2 | 5 | | 94.2 | 62.5 - 125 | |

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

| Sample ID | RunNo: 73657 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------------|----------------|------------------------|--------|-----|-------|----------|------|--------------|------|
| S1108168-001FMS | 08/22/11 15:21 | Radium 226 (Suspended) | 5.1 | 0.2 | 5 | ND | 101 | 51.4 - 135 | |

| Sample ID | RunNo: 73788 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------------|----------------|------------------------|--------|-----|-------|----------|------|--------------|------|
| S1108111-002EMS | 08/22/11 12:18 | Radium 226 (Dissolved) | 4.4 | 0.2 | 5 | ND | 87.7 | 41.6 - 146 | |

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

| Sample ID | RunNo: 73657 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|------------------|----------------|------------------------|--------|-----|----------|------|------|--------------|------|
| S1108167-001FDUP | 08/22/11 15:21 | Radium 226 (Suspended) | ND | 0.2 | ND | | | 20 | |

| Sample ID | RunNo: 73788 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|------------------|----------------|------------------------|------------|-----|----------|-------|------|--------------|------|
| S1108191-001FDUP | 08/22/11 12:18 | Radium 226 (Dissolved) | 14.7 ± 0.5 | 0.2 | 14.8 | 0.741 | | 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: S1108191
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108191001

Thorium 230 in Water

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

| Sample ID | RunNo: 73853 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|-------------------------|--------|-----|-------|----------|------|--------------|------|
| MB11-227 | 08/19/11 12:01 | Thorium 230 (Dissolved) | ND | 0.2 | | | | | |

| Sample ID | RunNo: 74323 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|-------------------------|--------|-----|-------|----------|------|--------------|------|
| MB11-243 | 09/07/11 13:11 | Thorium 230 (Dissolved) | ND | 0.2 | | | | | |
| | | Thorium 230 (Suspended) | ND | 0.2 | | | | | |

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

| Sample ID | RunNo: 73853 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|-------------------------|--------|-----|-------|----------|------|--------------|------|
| LCS11-227 | 08/19/11 12:01 | Thorium 230 (Dissolved) | 12 | 0.2 | 12 | | 96.8 | 67.1 - 134 | |

| Sample ID | RunNo: 74323 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|-------------------------|--------|-----|-------|----------|------|--------------|------|
| LCS11-243 | 09/07/11 13:11 | Thorium 230 (Dissolved) | 14 | 0.2 | 12 | | 111 | 67.1 - 134 | |
| | | Thorium 230 (Suspended) | 14 | 0.2 | 12 | | 111 | 69.2 - 127 | |

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

| Sample ID | RunNo: 73853 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|------------------|---------------|-------------------------|--------|-----|----------|------|------|--------------|------|
| S1108213-001EDUP | 08/22/11 8:40 | Thorium 230 (Dissolved) | ND | 0.2 | ND | | | 20 | |

| Sample ID | RunNo: 74323 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|------------------|----------------|-------------------------|--------|-----|----------|------|------|--------------|------|
| S1108535-005FDUP | 09/08/11 14:43 | Thorium 230 (Suspended) | ND | 0.2 | ND | | | 20 | |

Radon 222 by SM7500-RN

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

| Sample ID | RunNo: 73906 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|---------------|-----------|--------|----|-------|----------|------|--------------|------|
| MB-R73906 | 08/11/11 0:00 | Radon-222 | ND | 50 | | | | | L |

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

| Sample ID | RunNo: 73906 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|------------|---------------|-----------|--------|-----|-------|----------|------|--------------|------|
| LCS-R73906 | 08/11/11 0:00 | Radon-222 | 23300 | 100 | 22500 | | 104 | 75 - 125 | L |

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

| Sample ID | RunNo: 73906 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|---------------|---------------|-----------|--------|----|----------|-------|------|--------------|------|
| S1108191-001A | 08/11/11 0:00 | Radon-222 | 3740 | 50 | 3750 | 0.267 | | 20 | L |

- Qualifiers:**
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 - 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: S1108191
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108191001

Silica as SiO2

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

| Sample ID | RunNo: 73347 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|---------------|----------------|----------------|--------|-----|-------|----------|------|--------------|------|
| MBLK DISS/CAT | 08/12/11 13:11 | Silica as SiO2 | ND | 0.1 | | | | | |

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

| Sample ID | RunNo: 73347 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|------------|----------------|----------------|--------|-----|-------|----------|------|--------------|------|
| DISS LCS Q | 08/12/11 13:13 | Silica as SiO2 | 2.1 | 0.1 | 2.14 | | 98.4 | 85 - 115 | |

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

| Sample ID | RunNo: 73347 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|----------------|----------------|----------------|--------|-----|----------|------|------|--------------|------|
| S1108191-001DD | 08/12/11 14:04 | Silica as SiO2 | 8.7 | 0.1 | 9.1 | 3.86 | | 20 | |

Solids By SM 2540

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

| Sample ID | RunNo: 73481 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|---------------|------------------------------|--------|----|-------|----------|------|--------------|------|
| DI | 08/12/11 9:10 | Total Dissolved Solids (180) | ND | 10 | | | | | |

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

| Sample ID | RunNo: 73481 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|---------------|------------------------------|--------|----|-------|----------|------|--------------|------|
| CONTROL | 08/12/11 9:15 | Total Dissolved Solids (180) | 220 | 10 | 226 | | 98.2 | 90 - 110 | |

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

| Sample ID | RunNo: 73481 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|---------------|---------------|------------------------------|--------|----|----------|-------|------|--------------|------|
| S1108168-001A | 08/12/11 9:35 | Total Dissolved Solids (180) | 3050 | 10 | 3060 | 0.392 | | 20 | |

- Qualifiers:**
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 - 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: S1108191
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108191001

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

| Sample ID | RunNo: 73463 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|-----------|--------|------|-------|----------|------|--------------|------|
| MB-5383 | 08/16/11 15:32 | Iron | ND | 0.05 | | | | | |
| | | Manganese | ND | 0.02 | | | | | |

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

| Sample ID | RunNo: 73463 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|-----------|--------|------|-------|----------|------|--------------|------|
| LCS-5383 | 08/16/11 15:35 | Iron | 0.49 | 0.05 | 0.5 | | 97.9 | 85 - 115 | |
| | | Manganese | 0.19 | 0.02 | 0.2 | | 97.2 | 85 - 115 | |

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

| Sample ID | RunNo: 73463 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|----------------|----------------|-----------|--------|------|-------|----------|------|--------------|------|
| S1108192-001ES | 08/16/11 15:44 | Iron | 1.10 | 0.05 | 0.5 | 0.68 | 84.3 | 70 - 130 | |
| | | Manganese | 0.70 | 0.02 | 0.2 | 0.54 | 77.4 | 70 - 130 | |

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

| Sample ID | RunNo: 73463 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|----------------|----------------|-----------|--------|------|----------|------|------|--------------|------|
| S1108191-001ED | 08/16/11 15:39 | Iron | ND | 0.05 | ND | | | 20 | |
| | | Manganese | ND | 0.02 | ND | | | 20 | |

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

| Sample ID | RunNo: 73666 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|---------------|-------------------|--------|--------|-------|----------|------|--------------|------|
| LCS | 08/23/11 9:12 | Uranium Suspended | 0.0924 | 0.0003 | 0.1 | | 92.4 | 85 - 115 | |

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

| Sample ID | RunNo: 73666 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|----------------|----------------|-------------------|--------|--------|-------|----------|------|--------------|------|
| S1108194-001FS | 08/23/11 11:44 | Uranium Suspended | 1.06 | 0.0003 | 1.1 | ND | 96.1 | 70 - 130 | |

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

| Sample ID | RunNo: 73666 | Analyte | Result | RL | Conc | %RPD | %REC | % RPD Limits | Qual |
|------------------|----------------|-------------------|--------|--------|------|-------|------|--------------|------|
| S1108194-001FMSD | 08/23/11 11:48 | Uranium Suspended | 1.05 | 0.0003 | 1.06 | 0.754 | 95.4 | 20 | |

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

| Sample ID | RunNo: 73666 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|----------------|----------------|-------------------|--------|--------|----------|------|------|--------------|------|
| S1108194-001FD | 08/23/11 11:40 | Uranium Suspended | ND | 0.0003 | ND | | | 20 | |

Qualifiers:

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108191
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108191001

pH Water

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

| Sample ID | RunNo: 73290 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|---------|--------|-----|-------|----------|------|--------------|------|
| ATQC | 08/11/11 13:50 | pH | 8.6 | 0.1 | 8.48 | | 102 | 90 - 110 | |

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

| Sample ID | RunNo: 73290 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|----------------|----------------|---------|--------|-----|----------|-------|------|--------------|------|
| S1108206-009AD | 08/11/11 19:15 | pH | 7.9 | 0.1 | 7.9 | 0.115 | | 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
 16723 Terra Ave.
 Sheridan, WY 82901
 (307) 672-9945

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08345

- CHAIN OF CUSTODY RECORD -

Client Name: **AUC LLC** Report Address: **peavendor@auc-llc.com; mickerson@treccorp.com; jshriver@treccorp.com** Invoice Address: **AUC LLC** 900 DEANER Ct. SUITE 150 CASPER WY 82409

Project Identification: **Reno Creek Project** Contact Name: **Trace Mickerson** Email: **tmickerson@treccorp.com** Phone: **307-205-0096** Purchase Order #: **307-205-0096** Quote #:

Sampler (Signature/Printed): *[Signature]* ANALYSES / PARAMETERS: See Attached Table 1 (4,14, Guide 8, Radon 222), See Attached Table 2 (Air Particulate), See Attached Table 3 (Vegetation), See Attached Table 4 (Sediment), See Attached Table 5 (Soil), See Attached Table 8 WYDES Discharge, See Attached Table 9 (Blanks)

REMARKS: **GROUNDWATER**

| ITEM | LAB ID (Lab Use Only) | DATE SAMPLED | TIME SAMPLED | SAMPLE IDENTIFICATION | Matrix | # of Containers | REMARKS |
|------|--------------------------|--------------|--------------|-----------------------|--------|-----------------|---------|
| 1 | 5105191-001 | 8-10-11 | 8:49 AM | P2M18-001-110810 | WT | 13 | X |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |

LAB COMMENTS: Relinquished By (Signature/Printed): *[Signature]* DATE: 8-10-11 TIME: 4:06 PM Received By (Signature/Printed): *[Signature]* DATE: 8/10/11 TIME: 12:46

SHIPPING INFO: **UPS** Matrix Codes: **WT** Turnaround Times: Standard turnaround, RUSH - 5 Working Days, URGENT - < 2 Working Days. Compliance Information: Compliance Monitoring? Program (SDWA, NPDES, ...), PWSID / Permit #, Chlorinated? Additional Remarks:

SHIPING INFO: UPS, Fed Express, US Mail, Hand Carried, Other. MATRIX CODES: Water, Soil, Solid, Trip Blank, Other. TURNAROUND TIMES: Standard turnaround, RUSH - 5 Working Days, URGENT - < 2 Working Days. COMPLIANCE INFORMATION: Compliance Monitoring? Program (SDWA, NPDES, ...), PWSID / Permit #, Chlorinated? ADDITIONAL REMARKS: **G.O.**