



Friday, July 22, 2011

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

RE: Reno Creek Project
Orde

r No.: S1106249

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples PZM10-003-110613 on June 14, 2011.

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

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

Sincerely,

Lacey Ketron
Project Manager

xc: File
Encl.



Date: 7/22/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1106249

CASE NARRATIVE
Report ID: S1106249001

Sample PZM10-003-110613 was received on June 14, 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

- MB-R71504 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- LCS-R71504 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- S1106249-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- S1106179-001 - Radiochemistry/Gross Beta (Dissolved) - RPD outside accepted recovery limits
- S1106249-001 - Radiochemistry/Polonium 210 (Dissolved) - RPD outside accepted recovery limits

Reviewed by:

Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported 7/22/2011
Report ID S1106249001

ProjectName: Reno Creek Project
Lab ID: S1106249-001
ClientSample ID: PZM10-003-110613
COC: RC 08292

WorkOrder: S1106249
CollectionDate: 6/13/2011 1:45:00 PM
DateReceived: 6/14/2011 10:12:00 AM
FieldSampler: TN
Matrix: Water

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

These results apply only to the samples tested.

RL - Reporting Limit

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

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

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



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported 7/22/2011
Report ID S1106249001

ProjectName: Reno Creek Project
Lab ID: S1106249-001
ClientSample ID: PZM10-003-110613
COC: RC 08292

WorkOrder: S1106249
CollectionDate: 6/13/2011 1:45:00 PM
DateReceived: 6/14/2011 10:12:00 AM
FieldSampler: TN
Matrix: Water

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

These results apply only to the samples tested.

RL - Reporting Limit

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

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

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



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported 7/22/2011
Report ID S1106249001

ProjectName: Reno Creek Project
Lab ID: S1106249-001
ClientSample ID: PZM10-003-110613
COC: RC 08292

WorkOrder: S1106249
CollectionDate: 6/13/2011 1:45:00 PM
DateReceived: 6/14/2011 10:12:00 AM
FieldSampler: TN
Matrix: Water

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

These results apply only to the samples tested.

RL - Reporting Limit

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

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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

Date Reported 7/22/2011
Report ID S1106249001

ProjectName: Reno Creek Project
Lab ID: S1106249-001
ClientSample ID: PZM10-003-110613
COC: RC 08292

WorkOrder: S1106249
CollectionDate: 6/13/2011 1:45:00 PM
DateReceived: 6/14/2011 10:12:00 AM
FieldSampler: TN
Matrix: Water

Table with columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Dissolved (Gross Alpha, Gross Beta, Lead 210, Polonium 210, Radium 226, Radium 228, Thorium 230) and Radionuclides - Suspended (Lead 210, Polonium 210, Radium 226, Thorium 230). Total Radon 222 is also listed.

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: S1106249
Project: Reno Creek Project

Date: 7/22/2011
Report ID: S1106249001

Alkalinity

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

| Sample ID | RunNo: 71111 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|---------------|------------------------------|--------|----|-------|----------|------|--------------|------|
| BLANK | 06/15/11 9:53 | Alkalinity, Total (As CaCO3) | ND | 5 | | | | | |

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

| Sample ID | RunNo: 71111 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|---------------|------------------------------|--------|----|-------|----------|------|--------------|------|
| ATQC | 06/15/11 9:44 | Alkalinity, Total (As CaCO3) | 594 | 5 | 607 | | 97.9 | 90 - 110 | |

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

| Sample ID | RunNo: 71111 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|---------------|----------------|---------------------------------|--------|----|----------|--------|------|--------------|------|
| S1106263-007A | 06/15/11 18:23 | Alkalinity, Bicarbonate as HCO3 | 1680 | 5 | 1670 | 0.0917 | | 20 | |
| | | Alkalinity, Carbonate as CO3 | ND | 5 | ND | 0 | | 20 | |
| | | Alkalinity, Total (As CaCO3) | 1370 | 5 | 1370 | 0.0917 | | 20 | |

Conductivity

Sample Type **MBLK** Units: µmhos/cm

| Sample ID | RunNo: 71111 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|---------------|-------------------------|--------|----|-------|----------|------|--------------|------|
| BLANK | 06/15/11 9:53 | Electrical Conductivity | ND | 5 | | | | | |

Sample Type **LCS** Units: µmhos/cm

| Sample ID | RunNo: 71111 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|---------------|-------------------------|--------|----|-------|----------|------|--------------|------|
| ATQC | 06/15/11 9:44 | Electrical Conductivity | 919 | 5 | 1000 | | 91.8 | 90 - 110 | |

Sample Type **DUP** Units: µmhos/cm

| Sample ID | RunNo: 71111 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|---------------|----------------|-------------------------|--------|----|----------|-------|------|--------------|------|
| S1106263-007A | 06/15/11 18:23 | Electrical Conductivity | 2190 | 5 | 2200 | 0.455 | | 20 | |

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1106249
Project: Reno Creek Project

Date: 7/22/2011
Report ID: S1106249001

Dissolved Mercury by EPA 245.1 - Water

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

| Sample ID | RunNo: 71155 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|---------|--------|-------|-------|----------|------|--------------|------|
| LRB | 06/16/11 10:41 | Mercury | ND | 0.001 | | | | | |

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

| Sample ID | RunNo: 71155 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|---------|--------|-------|-------|----------|------|--------------|------|
| LCS | 06/16/11 10:39 | Mercury | 0.002 | 0.001 | 0.002 | | 91.8 | 85 - 115 | |

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

| Sample ID | RunNo: 71155 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|---------------|----------------|---------|--------|-------|---------|----------|------|--------------|------|
| S1106234-011C | 06/16/11 13:42 | Mercury | 0.002 | 0.001 | 0.00244 | ND | 95.7 | 70 - 130 | |

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

| Sample ID | RunNo: 71155 | Analyte | Result | RL | Conc | %RPD | %REC | % RPD Limits | Qual |
|---------------|----------------|---------|--------|-------|-------|------|------|--------------|------|
| S1106234-011C | 06/16/11 13:44 | Mercury | 0.002 | 0.001 | 0.002 | 1.79 | 94.0 | 20 | |

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

| Sample ID | RunNo: 71155 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|---------------|----------------|---------|--------|-------|----------|------|------|--------------|------|
| S1106234-011C | 06/16/11 13:40 | Mercury | ND | 0.001 | ND | 0 | | 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: S1106249
Project: Reno Creek Project

Date: 7/22/2011
Report ID: S1106249001

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

| Sample ID | RunNo: 71115 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|---------------|----------------|-----------|--------|------|-------|----------|------|--------------|------|
| MBLK DISS/CAT | 06/15/11 12:53 | 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: 71115 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|------------|----------------|-----------|--------|------|-------|----------|------|--------------|------|
| DISS LCS Q | 06/15/11 12:56 | Aluminum | 1.0 | 0.1 | 1 | | 99.7 | 85 - 115 | |
| | | Boron | 1.0 | 0.1 | 1 | | 98.0 | 85 - 115 | |
| | | Chromium | 1.03 | 0.01 | 1 | | 103 | 85 - 115 | |
| | | Iron | 0.99 | 0.05 | 1 | | 99.4 | 85 - 115 | |
| | | Manganese | 1.02 | 0.02 | 1 | | 102 | 85 - 115 | |
| | | Nickel | 1.00 | 0.01 | 1 | | 99.9 | 85 - 115 | |
| | | Zinc | 1.00 | 0.01 | 1 | | 100 | 85 - 115 | |

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

| Sample ID | RunNo: 71115 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|----------------|----------------|-----------|--------|------|-------|----------|------|--------------|------|
| S1106259-005BS | 06/15/11 13:57 | Aluminum | 0.6 | 0.1 | 0.5 | ND | 103 | 70 - 130 | |
| | | Boron | 0.5 | 0.1 | 0.5 | ND | 104 | 70 - 130 | |
| | | Chromium | 0.51 | 0.01 | 0.5 | ND | 103 | 70 - 130 | |
| | | Iron | 0.52 | 0.05 | 0.5 | ND | 100 | 70 - 130 | |
| | | Manganese | 0.52 | 0.02 | 0.5 | ND | 104 | 70 - 130 | |
| | | Nickel | 0.50 | 0.01 | 0.5 | ND | 99.1 | 70 - 130 | |
| | | Zinc | 0.50 | 0.01 | 0.5 | ND | 99.9 | 70 - 130 | |

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

| Sample ID | RunNo: 71115 | Analyte | Result | RL | Conc | %RPD | %REC | % RPD Limits | Qual |
|-----------------|----------------|-----------|--------|------|------|------|------|--------------|------|
| S1106259-005BSD | 06/15/11 13:59 | Aluminum | 0.6 | 0.1 | 0.6 | 1.97 | 101 | 20 | |
| | | Boron | 0.5 | 0.1 | 0.5 | 1.92 | 102 | 20 | |
| | | Chromium | 0.50 | 0.01 | 0.51 | 2.49 | 100 | 20 | |
| | | Iron | 0.51 | 0.05 | 0.52 | 2.60 | 97.8 | 20 | |
| | | Manganese | 0.51 | 0.02 | 0.52 | 2.35 | 101 | 20 | |
| | | Nickel | 0.49 | 0.01 | 0.50 | 2.14 | 97.0 | 20 | |
| | | Zinc | 0.49 | 0.01 | 0.50 | 1.98 | 97.9 | 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: S1106249
Project: Reno Creek Project

Date: 7/22/2011
Report ID: S1106249001

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

| Sample ID | RunNo: 71115 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|----------------|----------------|-----------|--------|------|----------|------|------|--------------|------|
| S1106259-004BD | 06/15/11 13:52 | Aluminum | 0.2 | 0.1 | 0.2 | 1.21 | | 20 | |
| | | Boron | ND | 0.1 | ND | 0 | | 20 | |
| | | Chromium | ND | 0.01 | ND | 0 | | 20 | |
| | | Iron | ND | 0.05 | ND | 0 | | 20 | |
| | | Manganese | ND | 0.02 | ND | 0 | | 20 | |
| | | Nickel | ND | 0.01 | ND | 0 | | 20 | |
| | | Zinc | ND | 0.01 | ND | 0 | | 20 | |

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

| Sample ID | RunNo: 71161 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|----------------|----------------|------------|--------|-------|-------|----------|------|--------------|------|
| INIT CAL BLANK | 06/16/11 13:40 | 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: 71161 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|------------|--------|-------|-------|----------|------|--------------|------|
| LCS | 06/16/11 13:48 | Arsenic | 0.103 | 0.005 | 0.1 | | 103 | 85 - 115 | |
| | | Barium | ND | 0.5 | 0.1 | | 102 | 85 - 115 | |
| | | Cadmium | 0.103 | 0.002 | 0.1 | | 103 | 85 - 115 | |
| | | Copper | 0.10 | 0.01 | 0.1 | | 99.7 | 85 - 115 | |
| | | Lead | 0.10 | 0.02 | 0.1 | | 101 | 85 - 115 | |
| | | Molybdenum | 0.10 | 0.02 | 0.1 | | 103 | 85 - 115 | |
| | | Selenium | 0.104 | 0.005 | 0.1 | | 104 | 85 - 115 | |
| | | Uranium | 0.101 | 0.001 | 0.1 | | 101 | 85 - 115 | |
| | | Vanadium | 0.10 | 0.02 | 0.1 | | 103 | 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: S1106249
Project: Reno Creek Project

Date: 7/22/2011
Report ID: S1106249001

Dissolved Metals by ICPMS EPA 200.8 - Water

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

| Sample ID | RunNo: 71161 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|----------------|----------------|------------|--------|-------|-------|----------|------|--------------|------|
| S1106249-001ES | 06/16/11 14:09 | Arsenic | 1.18 | 0.005 | 1.1 | 0.026 | 105 | 70 - 130 | |
| | | Barium | 1.2 | 0.5 | 1.1 | ND | 105 | 70 - 130 | |
| | | Cadmium | 1.17 | 0.002 | 1.1 | ND | 107 | 70 - 130 | |
| | | Copper | 1.09 | 0.01 | 1.1 | ND | 99.1 | 70 - 130 | |
| | | Lead | 0.94 | 0.02 | 1.1 | ND | 85.7 | 70 - 130 | |
| | | Molybdenum | 1.59 | 0.02 | 1.1 | 0.40 | 108 | 70 - 130 | |
| | | Selenium | 1.18 | 0.005 | 1.1 | ND | 107 | 70 - 130 | |
| | | Uranium | 1.63 | 0.001 | 1.1 | 0.477 | 105 | 70 - 130 | |
| | | Vanadium | 1.16 | 0.02 | 1.1 | ND | 105 | 70 - 130 | |

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

| Sample ID | RunNo: 71161 | Analyte | Result | RL | Conc | %RPD | %REC | % RPD Limits | Qual |
|------------------|----------------|------------|--------|-------|------|-------|------|--------------|------|
| S1106249-001EMSD | 06/16/11 14:13 | Arsenic | 1.18 | 0.005 | 1.18 | 0.276 | 105 | 20 | |
| | | Barium | 1.2 | 0.5 | 1.2 | 0.120 | 105 | 20 | |
| | | Cadmium | 1.18 | 0.002 | 1.17 | 0.623 | 107 | 20 | |
| | | Copper | 1.08 | 0.01 | 1.09 | 0.692 | 98.4 | 20 | |
| | | Lead | 0.94 | 0.02 | 0.94 | 0.804 | 85.0 | 20 | |
| | | Molybdenum | 1.58 | 0.02 | 1.59 | 0.127 | 108 | 20 | |
| | | Selenium | 1.17 | 0.005 | 1.18 | 0.478 | 107 | 20 | |
| | | Uranium | 1.63 | 0.001 | 1.63 | 0.222 | 105 | 20 | |
| | | Vanadium | 1.16 | 0.02 | 1.16 | 0.194 | 105 | 20 | |

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

| Sample ID | RunNo: 71161 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|----------------|----------------|------------|--------|-------|----------|--------|------|--------------|------|
| S1106249-001ED | 06/16/11 14:05 | Arsenic | 0.026 | 0.005 | 0.026 | 0.321 | | 20 | |
| | | Barium | ND | 0.5 | ND | 0 | | 20 | |
| | | Cadmium | ND | 0.002 | ND | 0 | | 20 | |
| | | Copper | ND | 0.01 | ND | 0 | | 20 | |
| | | Lead | ND | 0.02 | ND | 0 | | 20 | |
| | | Molybdenum | 0.40 | 0.02 | 0.40 | 0.0904 | | 20 | |
| | | Selenium | ND | 0.005 | ND | 0 | | 20 | |
| | | Uranium | 0.479 | 0.001 | 0.477 | 0.411 | | 20 | |
| | | Vanadium | ND | 0.02 | ND | 0 | | 20 | |

- Qualifiers:**
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 - 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: S1106249
Project: Reno Creek Project

Date: 7/22/2011
Report ID: S1106249001

Fluoride by SM 4500

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

| Sample ID | RunNo: 71111 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|---------------|----------|--------|-----|-------|----------|------|--------------|------|
| BLANK | 06/15/11 9:53 | Fluoride | ND | 0.1 | | | | | |

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

| Sample ID | RunNo: 71111 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|---------------|----------|--------|-----|-------|----------|------|--------------|------|
| ATQC | 06/15/11 9:44 | Fluoride | 2.8 | 0.1 | 2.71 | | 104 | 90 - 110 | |

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

| Sample ID | RunNo: 71111 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|---------------|----------------|----------|--------|-----|-------|----------|------|--------------|------|
| S1106263-6SPK | 06/15/11 17:51 | Fluoride | 2.5 | 0.1 | 2.5 | ND | 98.4 | 80 - 120 | |

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

| Sample ID | RunNo: 71111 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|---------------|----------------|----------|--------|-----|----------|------|------|--------------|------|
| S1106263-007A | 06/15/11 18:23 | Fluoride | 0.2 | 0.1 | 0.2 | 1.56 | | 20 | |

Gross Alpha, Beta by SM 7110B

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

| Sample ID | RunNo: 71682 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|-------------------------|--------|----|-------|----------|------|--------------|------|
| MB11-174 | 06/29/11 20:09 | Gross Alpha (Dissolved) | ND | 2 | | | | | |
| | | Gross Beta (Dissolved) | ND | 3 | | | | | |

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

| Sample ID | RunNo: 71682 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|-------------------------|--------|----|-------|----------|------|--------------|------|
| LCS11-174 | 06/29/11 20:09 | Gross Alpha (Dissolved) | 84 | 2 | 73.6 | | 115 | 76.7 - 133 | |
| | | Gross Beta (Dissolved) | 133 | 3 | 126 | | 105 | 76.7 - 133 | |

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

| Sample ID | RunNo: 71682 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------------|----------------|-------------------------|--------|----|-------|----------|------|--------------|------|
| S1106128-001GMS | 06/29/11 20:09 | Gross Alpha (Dissolved) | 73 | 2 | 73.6 | ND | 98.8 | 47.8 - 153 | |
| | | Gross Beta (Dissolved) | 143 | 3 | 126 | 5 | 110 | 47.8 - 153 | |

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

| Sample ID | RunNo: 71682 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|------------------|----------------|-------------------------|--------|----|----------|------|------|--------------|------|
| S1106179-001GDUP | 06/29/11 20:09 | Gross Alpha (Dissolved) | 5 | 2 | 5 | 1.84 | | 20 | |
| | | Gross Beta (Dissolved) | 11 | 4 | 9 | 21.3 | | 20 | R |

- 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: S1106249
Project: Reno Creek Project

Date: 7/22/2011
Report ID: S1106249001

Anions by ION Chromatography

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

| Sample ID | RunNo: 71070 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|---------------|----------|--------|----|-------|----------|------|--------------|------|
| BLANK | 06/14/11 9:34 | Chloride | ND | 1 | | | | | |
| | | Sulfate | ND | 1 | | | | | |

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

| Sample ID | RunNo: 71070 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|---------------|----------|--------|----|-------|----------|------|--------------|------|
| DIONEX | 06/14/11 9:46 | Chloride | 29 | 1 | 30 | | 97.5 | 90 - 110 | |
| | | Sulfate | 140 | 1 | 150 | | 93.6 | 90 - 110 | |

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

| Sample ID | RunNo: 71070 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|------------------|---------------|----------|--------|----|-------|----------|------|--------------|------|
| S1106250-001BSPK | 06/15/11 3:07 | Chloride | 159 | 1 | 130 | 33 | 97.2 | 80 - 120 | |
| | | Sulfate | 2760 | 1 | 1040 | 1550 | 116 | 80 - 120 | |

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

| Sample ID | RunNo: 71070 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|---------------|---------------|----------|--------|----|----------|-------|------|--------------|------|
| S1106250-001B | 06/15/11 2:55 | Chloride | 32 | 1 | 33 | 0.758 | | 20 | |
| | | Sulfate | 1570 | 1 | 1550 | 1.59 | | 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: S1106249
Project: Reno Creek Project

Date: 7/22/2011
Report ID: S1106249001

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

| Sample ID | RunNo: 71102 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|---------------|----------------|-----------|--------|----|-------|----------|------|--------------|------|
| MBLK DISS/CAT | 06/15/11 12:53 | Calcium | ND | 1 | | | | | |
| | | Magnesium | ND | 1 | | | | | |
| | | Potassium | ND | 1 | | | | | |
| | | Sodium | ND | 1 | | | | | |

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

| Sample ID | RunNo: 71102 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|--------------|----------------|-----------|--------|----|-------|----------|------|--------------|------|
| CAT LCS IML3 | 06/15/11 12:58 | Calcium | 41 | 1 | 40 | | 102 | 85 - 115 | |
| | | Magnesium | 40 | 1 | 40 | | 100 | 85 - 115 | |
| | | Potassium | 41 | 1 | 40 | | 102 | 85 - 115 | |
| | | Sodium | 39 | 1 | 40 | | 96.5 | 85 - 115 | |

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

| Sample ID | RunNo: 71102 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|----------------|----------------|-----------|--------|----|-------|----------|------|--------------|------|
| S1106259-005AS | 06/15/11 13:57 | Calcium | 29 | 1 | 25 | 3 | 106 | 70 - 130 | |
| | | Magnesium | 28 | 1 | 25 | ND | 109 | 70 - 130 | |
| | | Potassium | 30 | 1 | 25 | 3 | 108 | 70 - 130 | |
| | | Sodium | 27 | 1 | 25 | 4 | 95.5 | 70 - 130 | |

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

| Sample ID | RunNo: 71102 | Analyte | Result | RL | Conc | %RPD | %REC | % RPD Limits | Qual |
|-----------------|----------------|-----------|--------|----|------|------|------|--------------|------|
| S1106259-005ASD | 06/15/11 13:59 | Calcium | 29 | 1 | 29 | 2.40 | 103 | 20 | |
| | | Magnesium | 27 | 1 | 28 | 2.03 | 106 | 20 | |
| | | Potassium | 29 | 1 | 30 | 1.93 | 106 | 20 | |
| | | Sodium | 27 | 1 | 27 | 2.19 | 93.1 | 20 | |

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

| Sample ID | RunNo: 71102 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|----------------|----------------|-----------|--------|----|----------|-------|------|--------------|------|
| S1106259-004AD | 06/15/11 13:52 | Calcium | 2 | 1 | 2 | 0.505 | | 20 | |
| | | Magnesium | ND | 1 | ND | 0 | | 20 | |
| | | Potassium | 3 | 1 | 3 | 0.129 | | 20 | |
| | | Sodium | 2 | 1 | 2 | 2.01 | | 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: S1106249
Project: Reno Creek Project

Date: 7/22/2011
Report ID: S1106249001

Nitrogen, Ammonia (as N)

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

| Sample ID | RunNo: 71150 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|--------------------------|--------|-----|-------|----------|------|--------------|------|
| BLANK | 06/16/11 13:54 | Nitrogen, Ammonia (As N) | ND | 0.1 | | | | | |

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

| Sample ID | RunNo: 71150 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|--------------------------|--------|-----|-------|----------|------|--------------|------|
| QC | 06/16/11 13:56 | Nitrogen, Ammonia (As N) | 8.7 | 0.1 | 8.93 | | 97.5 | 90 - 110 | |

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

| Sample ID | RunNo: 71150 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|---------------|----------------|--------------------------|--------|-----|-------|----------|------|--------------|------|
| S1106250-001D | 06/16/11 16:00 | Nitrogen, Ammonia (As N) | 9.2 | 0.1 | 10 | ND | 92.2 | 80 - 120 | |

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

| Sample ID | RunNo: 71150 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|---------------|----------------|--------------------------|--------|-----|----------|------|------|--------------|------|
| S1106250-001D | 06/16/11 15:59 | Nitrogen, Ammonia (As N) | ND | 0.1 | ND | 0 | | 20 | |

Nitrogen, Nitrate-Nitrite (as N)

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

| Sample ID | RunNo: 71167 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|----------------------------------|--------|-----|-------|----------|------|--------------|------|
| BLK | 06/16/11 18:44 | Nitrogen, Nitrate-Nitrite (as N) | ND | 0.1 | | | | | |

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

| Sample ID | RunNo: 71167 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|----------------------------------|--------|-----|-------|----------|------|--------------|------|
| QC | 06/16/11 18:46 | Nitrogen, Nitrate-Nitrite (as N) | 8.4 | 0.1 | 7.69 | | 109 | 90 - 110 | |

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

| Sample ID | RunNo: 71167 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|---------------|----------------|----------------------------------|--------|-----|-------|----------|------|--------------|------|
| S1106250-001D | 06/16/11 20:33 | Nitrogen, Nitrate-Nitrite (as N) | 9.6 | 0.1 | 10 | ND | 96.2 | 80 - 120 | |

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

| Sample ID | RunNo: 71167 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|---------------|----------------|----------------------------------|--------|-----|----------|------|------|--------------|------|
| S1106250-001D | 06/16/11 20:32 | Nitrogen, Nitrate-Nitrite (as N) | ND | 0.1 | ND | 0 | | 20 | |

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1106249
Project: Reno Creek Project

Date: 7/22/2011
Report ID: S1106249001

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

| Sample ID | RunNo: 71693 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|----------|----------------|----------------------|----|---|--|--|--|--|--|
| MB11-171 | 06/30/11 14:04 | Lead 210 (Dissolved) | ND | 1 | | | | | |
|----------|----------------|----------------------|----|---|--|--|--|--|--|

| Sample ID | RunNo: 71696 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|----------|----------------|--------------------------|----|---|--|--|--|--|--|
| MB11-171 | 06/27/11 10:40 | Polonium 210 (Dissolved) | ND | 1 | | | | | |
|----------|----------------|--------------------------|----|---|--|--|--|--|--|

| Sample ID | RunNo: 71703 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|----------|---------------|----------------------|----|---|--|--|--|--|--|
| MB11-171 | 06/30/11 9:02 | Lead 210 (Suspended) | ND | 1 | | | | | |
|----------|---------------|----------------------|----|---|--|--|--|--|--|

| Sample ID | RunNo: 71709 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|----------|----------------|--------------------------|----|---|--|--|--|--|--|
| MB11-171 | 06/27/11 12:30 | Polonium 210 (Suspended) | ND | 1 | | | | | |
|----------|----------------|--------------------------|----|---|--|--|--|--|--|

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

| Sample ID | RunNo: 71693 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|-----------|----------------|----------------------|----|---|----|--|-----|------------|--|
| LCS11-171 | 06/29/11 17:59 | Lead 210 (Dissolved) | 15 | 1 | 13 | | 119 | 67.6 - 131 | |
|-----------|----------------|----------------------|----|---|----|--|-----|------------|--|

| Sample ID | RunNo: 71696 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|--------------|----------------|--------------------------|---|---|------|--|-----|------------|--|
| LCS11-171 PO | 06/27/11 10:40 | Polonium 210 (Dissolved) | 4 | 1 | 4.06 | | 108 | 67.6 - 131 | |
|--------------|----------------|--------------------------|---|---|------|--|-----|------------|--|

| Sample ID | RunNo: 71703 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|-----------|---------------|----------------------|----|---|----|--|-----|------------|--|
| LCS11-171 | 06/30/11 9:02 | Lead 210 (Suspended) | 13 | 1 | 13 | | 102 | 67.6 - 131 | |
|-----------|---------------|----------------------|----|---|----|--|-----|------------|--|

| Sample ID | RunNo: 71709 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|--------------|----------------|--------------------------|---|---|------|--|------|------------|--|
| LCS11-171 PO | 06/27/11 12:30 | Polonium 210 (Suspended) | 4 | 1 | 4.06 | | 97.3 | 67.6 - 131 | |
|--------------|----------------|--------------------------|---|---|------|--|------|------------|--|

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

| Sample ID | RunNo: 71693 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|-----------------|----------------|----------------------|----|---|----|---|------|----------|--|
| S1106164-001GMS | 06/29/11 17:59 | Lead 210 (Dissolved) | 16 | 1 | 13 | 4 | 84.7 | 66 - 133 | |
|-----------------|----------------|----------------------|----|---|----|---|------|----------|--|

| Sample ID | RunNo: 71696 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|-----------------|----------------|--------------------------|---|---|------|----|-----|----------|--|
| S1106164-001GMS | 06/27/11 10:40 | Polonium 210 (Dissolved) | 5 | 1 | 4.06 | ND | 114 | 66 - 133 | |
|-----------------|----------------|--------------------------|---|---|------|----|-----|----------|--|

| Sample ID | RunNo: 71703 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|-----------------|---------------|----------------------|----|---|----|----|------|----------|--|
| S1106250-001GMS | 06/30/11 9:02 | Lead 210 (Suspended) | 13 | 1 | 13 | ND | 98.3 | 66 - 133 | |
|-----------------|---------------|----------------------|----|---|----|----|------|----------|--|

| Sample ID | RunNo: 71709 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|
|-----------|--------------|---------|--------|----|-------|----------|------|--------------|------|

| | | | | | | | | | |
|-----------------|----------------|--------------------------|---|---|----|----|------|----------|--|
| S1106250-001GMS | 06/27/11 12:30 | Polonium 210 (Suspended) | 9 | 1 | 13 | ND | 67.8 | 66 - 133 | |
|-----------------|----------------|--------------------------|---|---|----|----|------|----------|--|

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: S1106249
Project: Reno Creek Project

Date: 7/22/2011
Report ID: S1106249001

Lead 210 and Polonium 210

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

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

S1106249-001GDUP 06/29/11 17:59 Lead 210 (Dissolved) 33 1 28 19.7 20

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

S1106249-001GDUP 06/27/11 10:40 Polonium 210 (Dissolved) 2 1 1 36.6 20 R

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

S1106289-001GDUP 06/30/11 9:02 Lead 210 (Suspended) 9 1 9 4.94 20

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

S1106289-001GDUP 06/27/11 12:30 Polonium 210 (Suspended) ND 1 ND 0 20

Radium 228

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

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

MB11-199 07/21/11 18:08 Radium 228 (Dissolved) ND 1

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

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

LCS11-199 07/21/11 15:48 Radium 228 (Dissolved) 11 1 10.2 105 74.9 - 122

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

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

S1106511-004GMS 07/21/11 15:48 Radium 228 (Dissolved) 12 1 10.2 1 101 48.4 - 167

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

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

S1106511-005GDUP 07/21/11 15:48 Radium 228 (Dissolved) 1 1 ND 0 20

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1106249
Project: Reno Creek Project

Date: 7/22/2011
Report ID: S1106249001

Radium 226 by SM 7500

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

| Sample ID | RunNo: 71404 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|------------------------|--------|-----|-------|----------|------|--------------|------|
| MB11-167 | 06/21/11 21:14 | Radium 226 (Dissolved) | ND | 0.2 | | | | | |

| Sample ID | RunNo: 71902 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|------------------------|--------|-----|-------|----------|------|--------------|------|
| MB11-180 | 07/06/11 10:32 | Radium 226 (Suspended) | ND | 0.2 | | | | | |

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

| Sample ID | RunNo: 71404 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|------------------------|--------|-----|-------|----------|------|--------------|------|
| LCS11-167 | 06/21/11 21:14 | Radium 226 (Dissolved) | 5.3 | 0.2 | 5 | | 106 | 62.5 - 125 | |

| Sample ID | RunNo: 71902 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|------------------------|--------|-----|-------|----------|------|--------------|------|
| LCS11-180 | 07/06/11 10:32 | Radium 226 (Suspended) | 4.7 | 0.2 | 5 | | 93.0 | 62.5 - 125 | |

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

| Sample ID | RunNo: 71902 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------------|----------------|------------------------|--------|-----|-------|----------|------|--------------|------|
| S1106354-001GMS | 07/06/11 14:12 | Radium 226 (Suspended) | 5.0 | 0.2 | 5 | 0.2 | 95.1 | 51.4 - 135 | |

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

| Sample ID | RunNo: 71404 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|------------------|----------------|------------------------|--------|-----|----------|------|------|--------------|------|
| S1106089-001GDUP | 06/21/11 21:14 | Radium 226 (Dissolved) | 1.6 | 0.2 | 1.7 | 4.70 | | 20 | |

| Sample ID | RunNo: 71902 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|------------------|----------------|------------------------|--------|-----|----------|------|------|--------------|------|
| S1106249-001GDUP | 07/06/11 14:12 | Radium 226 (Suspended) | 0.3 | 0.2 | 0.3 | 2.42 | | 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: S1106249
Project: Reno Creek Project

Date: 7/22/2011
Report ID: S1106249001

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

| Sample ID | RunNo: 71725 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|---------------|-------------------------|--------|-----|-------|----------|------|--------------|------|
| MB11-172 | 06/27/11 8:11 | Thorium 230 (Dissolved) | ND | 0.2 | | | | | |

| Sample ID | RunNo: 71891 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|---------------|-------------------------|--------|-----|-------|----------|------|--------------|------|
| MB11-172 | 06/29/11 7:47 | Thorium 230 (Suspended) | ND | 0.2 | | | | | |

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

| Sample ID | RunNo: 71725 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|---------------|-------------------------|--------|-----|-------|----------|------|--------------|------|
| LCS11-172 | 06/27/11 8:11 | Thorium 230 (Dissolved) | 13 | 0.2 | 12 | | 104 | 67.1 - 134 | |

| Sample ID | RunNo: 71891 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|---------------|-------------------------|--------|-----|-------|----------|------|--------------|------|
| LCS11-172 | 06/29/11 7:47 | Thorium 230 (Suspended) | 13 | 0.2 | 12 | | 107 | 67.1 - 134 | |

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

| Sample ID | RunNo: 71725 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|------------------|----------------|-------------------------|--------|-----|----------|------|------|--------------|------|
| S1106250-001GDUP | 06/27/11 12:52 | Thorium 230 (Dissolved) | ND | 0.2 | ND | 0 | | 20 | |

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

| Sample ID | RunNo: 71504 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|---------------|-----------|--------|----|-------|----------|------|--------------|------|
| MB-R71504 | 06/14/11 0:00 | Radon-222 | ND | 50 | | | | | L |

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

| Sample ID | RunNo: 71504 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|------------|---------------|-----------|--------|-----|-------|----------|------|--------------|------|
| LCS-R71504 | 06/14/11 0:00 | Radon-222 | 23600 | 100 | 22500 | | 105 | 75 - 125 | L |

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

| Sample ID | RunNo: 71504 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|---------------|---------------|-----------|--------|-----|----------|------|------|--------------|------|
| S1106249-001B | 06/14/11 0:00 | Radon-222 | 60200 | 100 | 61400 | 1.95 | | 20 | L |

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

| Sample ID | RunNo: 71119 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|---------------|----------------|----------------|--------|-----|-------|----------|------|--------------|------|
| MBLK DISS/CAT | 06/15/11 12:53 | Silica as SiO2 | ND | 0.1 | | | | | |

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

| Sample ID | RunNo: 71119 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|------------|----------------|----------------|--------|-----|-------|----------|------|--------------|------|
| DISS LCS Q | 06/15/11 12:56 | Silica as SiO2 | 2.2 | 0.1 | 2.14 | | 103 | 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: S1106249
Project: Reno Creek Project

Date: 7/22/2011
Report ID: S1106249001

Solids By SM 2540

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

| Sample ID | RunNo: 71255 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|------------------------------|--------|----|-------|----------|------|--------------|------|
| DI | 06/16/11 11:10 | Total Dissolved Solids (180) | ND | 10 | | | | | |

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

| Sample ID | RunNo: 71255 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|------------------------------|--------|----|-------|----------|------|--------------|------|
| CONTROL | 06/16/11 11:15 | Total Dissolved Solids (180) | 220 | 10 | 226 | | 97.3 | 90 - 110 | |

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

| Sample ID | RunNo: 71255 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|---------------|----------------|------------------------------|--------|----|----------|-------|------|--------------|------|
| S1106250-001B | 06/16/11 11:55 | Total Dissolved Solids (180) | 2820 | 10 | 2820 | 0.142 | | 20 | |

Total (200.2) Metals by EPA 200.7 ICP - Water

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

| Sample ID | RunNo: 71159 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|--------------------|----------------|-----------|--------|------|-------|----------|------|--------------|------|
| BLK 6/16 TOT -5206 | 06/16/11 18:24 | Iron | ND | 0.05 | | | | | |
| | | Manganese | ND | 0.02 | | | | | |

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

| Sample ID | RunNo: 71159 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|--------------------|----------------|-----------|--------|------|-------|----------|------|--------------|------|
| LCS 6/16 TOT -5206 | 06/16/11 18:26 | Iron | 0.50 | 0.05 | 0.5 | | 99.1 | 85 - 115 | |
| | | Manganese | 0.19 | 0.02 | 0.2 | | 96.0 | 85 - 115 | |

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

| Sample ID | RunNo: 71159 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|----------------|----------------|-----------|--------|------|-------|----------|------|--------------|------|
| S1106301-008ES | 06/16/11 19:20 | Iron | 0.96 | 0.05 | 0.5 | 0.44 | 103 | 70 - 130 | |
| | | Manganese | 0.23 | 0.02 | 0.2 | 0.03 | 99.2 | 70 - 130 | |

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

| Sample ID | RunNo: 71159 | Analyte | Result | RL | Conc | %RPD | %REC | % RPD Limits | Qual |
|-----------------|----------------|-----------|--------|------|------|-------|------|--------------|------|
| S1106301-008ESD | 06/16/11 19:22 | Iron | 0.92 | 0.05 | 0.96 | 3.48 | 96.1 | 20 | |
| | | Manganese | 0.23 | 0.02 | 0.23 | 0.734 | 98.4 | 20 | |

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

| Sample ID | RunNo: 71159 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|----------------|----------------|-----------|--------|------|----------|-------|------|--------------|------|
| S1106249-001FD | 06/16/11 18:31 | Iron | ND | 0.05 | ND | 0 | | 20 | |
| | | Manganese | 0.05 | 0.02 | 0.05 | 0.815 | | 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: S1106249
Project: Reno Creek Project

Date: 7/22/2011
Report ID: S1106249001

Suspended Natural Uranium

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

| Sample ID | RunNo: 71264 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|-------------------|--------|--------|-------|----------|------|--------------|------|
| BLK | 06/20/11 14:32 | Uranium Suspended | ND | 0.0003 | | | | | |

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

| Sample ID | RunNo: 71264 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|----------------|-------------------|--------|--------|-------|----------|------|--------------|------|
| LCS | 06/20/11 14:28 | Uranium Suspended | 0.0938 | 0.0003 | 0.1 | | 93.8 | 85 - 115 | |

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

| Sample ID | RunNo: 71264 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|----------------|----------------|-------------------|--------|--------|-------|----------|------|--------------|------|
| S1106249-001HS | 06/20/11 15:29 | Uranium Suspended | 1.11 | 0.0003 | 1.1 | ND | 101 | 70 - 130 | |

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

| Sample ID | RunNo: 71264 | Analyte | Result | RL | Conc | %RPD | %REC | % RPD Limits | Qual |
|------------------|----------------|-------------------|--------|--------|------|--------|------|--------------|------|
| S1106249-001HMSD | 06/20/11 15:33 | Uranium Suspended | 1.11 | 0.0003 | 1.11 | 0.0555 | 101 | 20 | |

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

| Sample ID | RunNo: 71264 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|----------------|----------------|-------------------|--------|--------|----------|------|------|--------------|------|
| S1106249-001HD | 06/20/11 15:17 | Uranium Suspended | ND | 0.0003 | ND | 0 | | 20 | |

pH Water

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

| Sample ID | RunNo: 71111 | Analyte | Result | RL | Spike | Ref Samp | %REC | % Rec Limits | Qual |
|-----------|---------------|---------|--------|-----|-------|----------|------|--------------|------|
| ATQC | 06/15/11 9:44 | pH | 8.4 | 0.1 | 8.63 | | 97.2 | 90 - 110 | |

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

| Sample ID | RunNo: 71111 | Analyte | Result | RL | Ref Samp | %RPD | %REC | % RPD Limits | Qual |
|---------------|----------------|---------|--------|-----|----------|-------|------|--------------|------|
| S1106263-007A | 06/15/11 18:23 | pH | 7.2 | 0.1 | 7.2 | 0.332 | | 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 82901 (307) 662-3945
 (307) 672-8945

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08292

- CHAIN OF CUSTODY RECORD -

Client Name: AUC LLC
 Report Address: peavendor@auc-llc.com; trickerson@reccorp.com; jshriver@reccorp.com
 Invoice Address: AUC LLC, 951 W. Glenn Cir., Ste 395, Casper WY 82401
 Project Identification: Reno Creek Project
 Contact Name: Tracy Nickerson
 Email: tracy@intermountainlabs.com
 Phone: 307-265-0696
 Purchase Order #: [blank]
 Quote #: [blank]
 Sampler (Signature/Printed): Tracy Nickerson
 Telephone #: 265-0696

| ITEM | LAB ID (Lab Use Only) | DATE SAMPLED | TIME | SAMPLE IDENTIFICATION | Matrix | # of Containers | 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 WYPDES Discharge | See Attached Table 9 (Blanks) | REMARKS |
|------|--------------------------|--------------|------|-------------------------|--------|-----------------|---|--|-----------------------------------|---------------------------------|-----------------------------|---------------------------------------|-------------------------------|-------------|
| 1 | 2511 Q249-001 | 6/13/11 | 1340 | Permio-003-110603 W2 13 | | | | | | | | | | Groundwater |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |

LAB COMMENTS: Relinquished By (Signature/Printed): Tracy Nickerson
 DATE: 6/13/11 TIME: 1600
 Received By (Signature/Printed): Kathy Boyd
 DATE: 6.14.11 TIME: 10:12

SHIPPING 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?, Sample Disposal: Lab, Client

ADDITIONAL REMARKS: [blank]