

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-144  
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.  
For downstream facilities, submit to Santa Fe office

**Pit or Below-Grade Tank Registration or Closure**

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: Pure Resources Telephone: 970-259-1374 e-mail address: \_\_\_\_\_  
Address: 463 Turner Drive, Durango CO 81303 Facility or well name: Rincon 279 API #: 300 3924742 U/L K 1739 FSL/ 1456 FWL Sec 14 T 27N R 7W  
County: Rio Arriba Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ NAD: 1927 ☐ 1983 ☐  
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

| Pit                                                                                                                                                                                                                                                                                                                                                                                                        | Below-grade tank                                                                                                                                                          |               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Type: Drilling <input type="checkbox"/> Production <input checked="" type="checkbox"/> Disposal <input type="checkbox"/><br>Workover <input type="checkbox"/> Emergency <input type="checkbox"/><br>Lined <input type="checkbox"/> Unlined <input checked="" type="checkbox"/><br>Liner type: Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/><br>Pit Volume _____ bbl | Volume: _____ bbl Type of fluid: _____<br>Construction material: _____<br>Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not. _____ |               |
| Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)                                                                                                                                                                                                                                                                                             | Less than 50 feet                                                                                                                                                         | (20 points)   |
|                                                                                                                                                                                                                                                                                                                                                                                                            | 50 feet or more, but less than 100 feet                                                                                                                                   | (10 points)   |
|                                                                                                                                                                                                                                                                                                                                                                                                            | 100 feet or more X                                                                                                                                                        | ( 0 points) X |
| Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)                                                                                                                                                                                                                                                                  | Yes                                                                                                                                                                       | (20 points)   |
|                                                                                                                                                                                                                                                                                                                                                                                                            | No X                                                                                                                                                                      | ( 0 points) X |
| Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)                                                                                                                                                                                                                                                            | Less than 200 feet                                                                                                                                                        | (20 points)   |
|                                                                                                                                                                                                                                                                                                                                                                                                            | 200 feet or more, but less than 1000 feet                                                                                                                                 | (10 points)   |
|                                                                                                                                                                                                                                                                                                                                                                                                            | 1000 feet or more X                                                                                                                                                       | ( 0 points) X |
| Ranking Score (Total Points)                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                           | 0             |

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility: (3) Attach a general description of remedial action taken including remediation start date and end date.  
(4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface \_\_\_\_\_ ft. and attach sample results.  
(5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: Decommissioned Separator Pit. Steel Tank Pit has been installed.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 11/30/06

Printed Name/Title John Hagstrom as Agent for Pure Resources

Signature 

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Printed Name/Title DEPUTY OIL & GAS INSPECTOR, DIST. #1

Signature 

Date:

DEC 01 2006



November 30, 2006

SMA Project: 5115310

RE: Sampling activities for Pit Closure at the Rincon 279. Unit K, Sec. 14, T 27N, R 7W, Fruitland Coal, Rio Arriba County NM. Fed Lease SF079298-D. API 3003924742.

On May 27, 2005, SMA mobilized to the unlined separator pit at the Rincon 279. The dimensions of the unlined pit are approximately 20 X 20 X 4 feet.

On May 27, 2005, SMA collected a soil sample from the center pit bottom for field analysis by Photo Ionization Detector (PID). A four-point composite soil sample was collected from the sidewalls for field analysis by PID. The center pit bottom sample showed a PID reading of 1405 units and the sidewall composite sample showed a PID reading of 0 units. Soil samples for closure were collected for laboratory analysis. Samples were analyzed for Diesel Range Organics (DRO), and Gasoline Range Organics (GRO). Based on Field Screening with a PID, BTEX was analyzed by laboratory methods. The laboratory analysis of the closure samples showed hydrocarbon levels of:

| May 27, 2005      | DRO ppm | GRO ppm | Benzene ppm | BTEX ppm |
|-------------------|---------|---------|-------------|----------|
| 4 Point Sidewall  | BDL     | BDL     | NA          | NA       |
| Center Pit Bottom | 3550    | 2340    | 0.793       | 80.743   |

BDL: Below Detection Limits

NA: Not Analyzed

On July 17, 2006 SMA collected five discrete samples from the bottom of the pit at the Rincon 279.

| July 17, 2006     | DRO ppm | GRO ppm | Benzene ppm | BTEX ppm |
|-------------------|---------|---------|-------------|----------|
| NE Corner         | 219     | BDL     | NA          | NA       |
| NW Corner         | 74.8    | BDL     | NA          | NA       |
| SW Corner         | BDL     | BDL     | NA          | NA       |
| SE Corner         | BDL     | BDL     | NA          | NA       |
| Center Pit Bottom | 135     | 70.6    | BDL         | 760.1    |

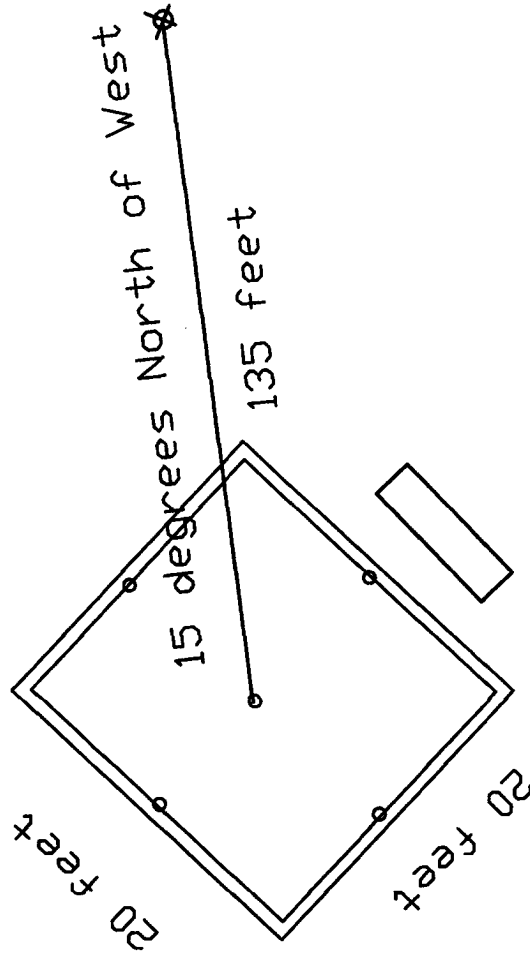
On November 11, 2006 SMA collected five discrete samples from the bottom of the pit at the Rincon 279 after excavation to an approximate depth of 22 feet BG.

| 11/10/06          | DRO ppm | GRO ppm | PID  | BTEX ppm |
|-------------------|---------|---------|------|----------|
| NE Corner         | BDL     | BDL     | 7.9  | NA       |
| NW Corner         | BDL     | BDL     | 19.2 | NA       |
| SW Corner         | BDL     | BDL     | 12.2 | NA       |
| SE Corner         | BDL     | BDL     | 17.1 | NA       |
| Center Pit Bottom | BDL     | BDL     | 55.7 | NA       |

Remedial excavation has been performed based on laboratory analysis of soil samples. On behalf of our client, Pure Resources, SMA requests closure for this pit. Groundwater was not encountered.

Respectfully submitted,

John Hagstrom  
Environmental Technician  
Souder, Miller and Associates



NTS

| LEGEND |                |
|--------|----------------|
|        | Wellhead       |
|        | Sampling Point |
|        | Separator      |

**ASMA**  
*Civil / Environmental  
 Sciences & Engineers*

612 E. MURRAY DR.  
 FARMINGTON, NM 87401

PH. (505) 326-5667  
 FAX (505) 327-1498

|                     |               |
|---------------------|---------------|
| APPROVED:           | DATE:         |
| DRAWN BY: JPH       | DATE: 9/22/05 |
| CHK'D BY:           | DATE:         |
| PROJECT NO: 5115310 | SHEET: 1 OF 1 |

Rincon 279  
 1739 FSL, 1456 FNL, S14, T27N, R7W  
 API 3003924742  
 Rio Arriba County, NM

612 E. Murray Drive  
Farmington, NM 87401

Off: (505) 327-1072  
Fax: (505) 327-1496

*iiná bá*

P.O. Box 3788  
Shiprock, NM 87420

Off: (505) 368-4065

November 29, 2006

John Hagstrom  
Souder, Miller & Associates  
612 E. Murray Dr  
Farmington, NM 87401

TEL: 505-325-5667

FAX 505-327-1496

RE: RINCON 279 / 5116142

Order No.: 0611018

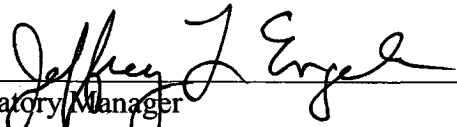
Dear John Hagstrom:

iiná bá received 5 samples on 11/10/2006 2:47:00 PM for the analyses presented in the following report.

This certificate of analysis includes the Analytical Report(s) for the sample(s) received by the laboratory. A Quality Control Summary Report, the Sample Receipt Checklist and an executed Chain of Custody are included as an addendum to this report.

Should you have any questions regarding this certificate of analysis, please contact the laboratory at your convenience.

Report Approved By:

  
Jeffrey L. Engels, Laboratory Manager  
Edwina F. Aspaas, Quality Assurance Officer

This certificate of analysis and respective material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the person responsible for delivering this to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify the laboratory immediately at (505) 327-1072.



MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

612 E. Murray Drive  
Farmington, NM 87499

Off: (505) 327-1072  
FAX: (505) 327-1496

*iiná bá*

P.O. Box 3788  
Shiprock, NM 87420

Off: (505) 368-4065

**iiná bá**

**Date:** 29-Nov-06

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**CLIENT:** Souder, Miller & Associates  
**Project:** RINCON 279 / 5116142  
**Lab Order:** 0611018

**CASE NARRATIVE**

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Samples were analyzed using the methods outlined in one or more of the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983.

Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

Methods for the Determination of Metals in Environmental Samples, Supplement I, EPA-600/R-94/111,  
May 1994.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s), the quality control summary report(s) or the sample receipt checklist.

612 E. Murray Drive  
Farmington, NM 87499

**iiná bá**

P.O. Box 3788  
Shiprock, NM 87420

~~Phone (505) 327-1072~~

Date: 29-Nov-06

~~FAX: (505) 327-1496~~

Off: (505) 368-4065

CLIENT: Souder, Miller & Associates

Lab Order: 0611018

Project: RINCON 279 / 5116142

Lab ID: 0611018-001

Collection Date: 11/10/2006 11:20:00 AM

Client Sample ID: Center Pit @ 23 ft

Matrix: SOIL

| Analyses                       | Result | Limit          | Qual | Units            | DF | Date Analyzed |
|--------------------------------|--------|----------------|------|------------------|----|---------------|
| <b>DIESEL RANGE ORGANICS</b>   |        | <b>SW8015B</b> |      | <b>(SW8015B)</b> |    | Analyst: jem  |
| T/R Hydrocarbons: C10-C28      | ND     | 25.0           |      | mg/Kg            | 1  | 11/16/2006    |
| Surr: o-Terphenyl              | 44.2   | 35-128         |      | %REC             | 1  | 11/16/2006    |
| <b>GASOLINE RANGE ORGANICS</b> |        | <b>SW8015B</b> |      | <b>(SW5035A)</b> |    | Analyst: jem  |
| T/R Hydrocarbons: C6-C10       | 3.84   | 2.50           |      | mg/Kg            | 25 | 11/21/2006    |
| Surr: Trifluorotoluene         | 57.9   | 57-122         |      | %REC             | 25 | 11/21/2006    |

Lab ID: 0611018-002

Collection Date: 11/10/2006 12:10:00 PM

Client Sample ID: North East Corner @ 20 ft

Matrix: SOIL

| Analyses                       | Result | Limit          | Qual | Units            | DF | Date Analyzed |
|--------------------------------|--------|----------------|------|------------------|----|---------------|
| <b>DIESEL RANGE ORGANICS</b>   |        | <b>SW8015B</b> |      | <b>(SW8015B)</b> |    | Analyst: jem  |
| T/R Hydrocarbons: C10-C28      | ND     | 25.0           |      | mg/Kg            | 1  | 11/16/2006    |
| Surr: o-Terphenyl              | 84.6   | 35-128         |      | %REC             | 1  | 11/16/2006    |
| <b>GASOLINE RANGE ORGANICS</b> |        | <b>SW8015B</b> |      | <b>(SW5035A)</b> |    | Analyst: jem  |
| T/R Hydrocarbons: C6-C10       | ND     | 2.50           |      | mg/Kg            | 25 | 11/21/2006    |
| Surr: Trifluorotoluene         | 55.3   | 57-122         | S    | %REC             | 25 | 11/21/2006    |

Lab ID: 0611018-003

Collection Date: 11/10/2006 12:20:00 PM

Client Sample ID: North West Corner @ 21 ft

Matrix: SOIL

| Analyses                       | Result | Limit          | Qual | Units            | DF | Date Analyzed |
|--------------------------------|--------|----------------|------|------------------|----|---------------|
| <b>DIESEL RANGE ORGANICS</b>   |        | <b>SW8015B</b> |      | <b>(SW8015B)</b> |    | Analyst: jem  |
| T/R Hydrocarbons: C10-C28      | ND     | 25.0           |      | mg/Kg            | 1  | 11/16/2006    |
| Surr: o-Terphenyl              | 84.7   | 35-128         |      | %REC             | 1  | 11/16/2006    |
| <b>GASOLINE RANGE ORGANICS</b> |        | <b>SW8015B</b> |      | <b>(SW5035A)</b> |    | Analyst: jem  |
| T/R Hydrocarbons: C6-C10       | ND     | 2.50           |      | mg/Kg            | 25 | 11/21/2006    |
| Surr: Trifluorotoluene         | 55.3   | 57-122         | S    | %REC             | 25 | 11/21/2006    |

**Qualifiers:**  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

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Farmington, NM 87499

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P.O. Box 3788  
Shiprock, NM 87420

~~ina bá~~ (505) 327-1072  
~~FAX: (505) 327-1496~~

Date: 29-Nov-06

Off: (505) 368-4065

CLIENT: Souder, Miller & Associates  
Project: RINCON 279 / 5116142

Lab Order: 0611018

Lab ID: 0611018-004

Collection Date: 11/10/2006 12:30:00 PM

Client Sample ID: South East Corner @ 21 ft

Matrix: SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

**DIESEL RANGE ORGANICS**

SW8015B

(SW8015B)

Analyst: jem

T/R Hydrocarbons: C10-C28

ND

25.0

mg/Kg

1

11/16/2006

Surr: o-Terphenyl

91.6

35-128

%REC

1

11/16/2006

**GASOLINE RANGE ORGANICS**

SW8015B

(SW5035A)

Analyst: jem

T/R Hydrocarbons: C6-C10

ND

2.50

mg/Kg

25

11/21/2006

Surr: Trifluorotoluene

54.9

57-122

S

%REC

25

11/21/2006

Lab ID: 0611018-005

Collection Date: 11/10/2006 12:45:00 PM

Client Sample ID: South West Corner @ 21 ft

Matrix: SOIL

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------|--------|-------|------|-------|----|---------------|
|----------|--------|-------|------|-------|----|---------------|

**DIESEL RANGE ORGANICS**

SW8015B

(SW8015B)

Analyst: jem

T/R Hydrocarbons: C10-C28

ND

25.0

mg/Kg

1

11/16/2006

Surr: o-Terphenyl

94.7

35-128

%REC

1

11/16/2006

**GASOLINE RANGE ORGANICS**

SW8015B

(SW5035A)

Analyst: jem

T/R Hydrocarbons: C6-C10

ND

2.50

mg/Kg

25

11/21/2006

Surr: Trifluorotoluene

52.0

57-122

S

%REC

25

11/21/2006

**Qualifiers:**

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

Page 2 of 2

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

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Date: 30-Nov-06

CLIENT: Souder, Miller & Associates  
Work Order: 0611018  
Project: RINCON 279 / 5116142

# ANALYTICAL QC SUMMARY REPORT

BatchID: 1466

|                  |           |                |                     |              |                           |                      |           |             |      |          |      |
|------------------|-----------|----------------|---------------------|--------------|---------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID        | MBLK_1466 | SampType: MBLK | TestCode: 8015DR2_S | Units: mg/Kg | Prep Date: 11/14/2006     | Run ID: GC-2_061116A |           |             |      |          |      |
| Client ID: ZZZZZ |           | Batch ID: 1466 | TestNo: SW8015B     | (SW8015B)    | Analysis Date: 11/16/2006 | SeqNo: 121661        |           |             |      |          |      |
| Analyte          | Result    | PQL            | SPK value           | SPK Ref Val  | %REC                      | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|            |          |           |      |           |           |             |           |                |            |             |              |          |      |
|------------|----------|-----------|------|-----------|-----------|-------------|-----------|----------------|------------|-------------|--------------|----------|------|
| Sample ID  | LCS_1466 | SampType: | LCS  | TestCode: | 8015DR2_S | Units:      | mg/Kg     | Prep Date:     | 11/13/2006 | Run ID:     | GC-2_061116A |          |      |
| Client ID: | ZZZZZ    | Batch ID: | 1466 | TestNo:   | SW8015B   |             | (SW8015B) | Analysis Date: | 11/16/2006 | SeqNo:      | 121663       |          |      |
| Analyte    |          | Result    |      | PQL       | SPK value | SPK Ref Val | %REC      | LowLimit       | HighLimit  | RPD Ref Val | %RPD         | RPDLimit | Qual |
|            |          |           |      |           |           |             |           |                |            |             |              |          |      |

|            |                    |                |                     |              |                           |                      |           |             |      |          |      |
|------------|--------------------|----------------|---------------------|--------------|---------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID  | 0611018-001AMS     | SampType: MS   | TestCode: 8015DR2_S | Units: mg/Kg | Prep Date: 11/14/2006     | Run ID: GC-2_061116A |           |             |      |          |      |
| Client ID: | Center Pit @ 23 ft | Batch ID: 1466 | TestNo: SW8015B     | (SW8015B)    | Analysis Date: 11/16/2006 | SeqNo: 121665        |           |             |      |          |      |
| Analyte    | Result             | PQL            | SPK value           | SPK Ref Val  | %REC                      | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                  |               |                |                     |              |                           |                      |           |             |      |          |      |
|------------------|---------------|----------------|---------------------|--------------|---------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID        | 0611022-001AD | SampType: DUP  | TestCode: 8015DR2_S | Units: mg/Kg | Prep Date: 11/14/2006     | Run ID: GC-2_061116A |           |             |      |          |      |
| Client ID: ZZZZZ |               | Batch ID: 1466 | TestNo: SW8015B     | (SW8015B)    | Analysis Date: 11/16/2006 | SeqNo: 121671        |           |             |      |          |      |
| Analyte          | Result        | PQL            | SPK value           | SPK Ref Val  | %REC                      | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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Date: 30-Nov-06

**CLIENT:** Souder, Miller & Associates  
**Work Order:** 0611018  
**Project:** RINCON 279 / 5116142

# ANALYTICAL QC SUMMARY REPORT

**BatchID:** 1465

|                          |                    |             |      |           |           |             |       |                |            |             |                    |
|--------------------------|--------------------|-------------|------|-----------|-----------|-------------|-------|----------------|------------|-------------|--------------------|
| Sample ID                | MB_1465            | SampleType: | MBLK | TestCode: | 8015GRO_S | Units:      | mg/Kg | Prep Date:     | 11/13/2006 | Run ID:     | GC-1B_061121A      |
| Client ID:               | ZZZZZ              | Batch ID:   | 1465 | TestNo:   | SW8015B   | (SW5035A)   |       | Analysis Date: | 11/21/2006 | SeqNo:      | 121951             |
| Analyte                  |                    | Result      |      | PQL       | SPK value | SPK Ref Val | %REC  | LowLimit       | HighLimit  | RPD Ref Val | %RPD RPDLimit Qual |
| T/R Hydrocarbons: C6-C10 |                    | 0.3674      |      | 2.50      | 0         | 0           | 0     | 0              | 0          | 0           | 0                  |
| Surr: Trifluorotoluene   |                    | 1.391       |      | 0         | 2.5       | 0           | 55.6  | 57             | 122        | 0           | 0                  |
| Sample ID                | LCS_1465           | SampleType: | LCS  | TestCode: | 8015GRO_S | Units:      | mg/Kg | Prep Date:     |            | Run ID:     | GC-1B_061121A      |
| Client ID:               | ZZZZZ              | Batch ID:   | 1465 | TestNo:   | SW8015B   | (SW5035A)   |       | Analysis Date: | 11/21/2006 | SeqNo:      | 121949             |
| Analyte                  |                    | Result      |      | PQL       | SPK value | SPK Ref Val | %REC  | LowLimit       | HighLimit  | RPD Ref Val | %RPD RPDLimit Qual |
| T/R Hydrocarbons: C6-C10 |                    | 27.09       |      | 2.50      | 25        | 0.3674      | 107   | 80             | 120        | 0           | 0                  |
| Surr: Trifluorotoluene   |                    | 1.653       |      | 0         | 2.5       | 0           | 66.1  | 57             | 122        | 0           | 0                  |
| Sample ID                | 0611018-001AMS     | SampleType: | MS   | TestCode: | 8015GRO_S | Units:      | mg/Kg | Prep Date:     |            | Run ID:     | GC-1B_061121A      |
| Client ID:               | Center Pit @ 23 ft | Batch ID:   | 1465 | TestNo:   | SW8015B   | (SW5035A)   |       | Analysis Date: | 11/21/2006 | SeqNo:      | 121957             |
| Analyte                  |                    | Result      |      | PQL       | SPK value | SPK Ref Val | %REC  | LowLimit       | HighLimit  | RPD Ref Val | %RPD RPDLimit Qual |
| T/R Hydrocarbons: C6-C10 |                    | 28.53       |      | 2.50      | 25        | 3.835       | 98.8  | 70             | 130        | 0           | 0                  |
| Surr: Trifluorotoluene   |                    | 1.621       |      | 0         | 2.5       | 0           | 64.8  | 57             | 122        | 0           | 0                  |
| Sample ID                | 0611018-001AMSD    | SampleType: | MSD  | TestCode: | 8015GRO_S | Units:      | mg/Kg | Prep Date:     | 11/19/2006 | Run ID:     | GC-1B_061121A      |
| Client ID:               | Center Pit @ 23 ft | Batch ID:   | 1465 | TestNo:   | SW8015B   | (SW5035A)   |       | Analysis Date: | 11/21/2006 | SeqNo:      | 121977             |
| Analyte                  |                    | Result      |      | PQL       | SPK value | SPK Ref Val | %REC  | LowLimit       | HighLimit  | RPD Ref Val | %RPD RPDLimit Qual |
| T/R Hydrocarbons: C6-C10 |                    | 22.96       |      | 2.50      | 25        | 3.835       | 76.5  | 70             | 130        | 28.53       | 21.6               |
| Surr: Trifluorotoluene   |                    | 1.494       |      | 0         | 2.5       | 0           | 59.7  | 57             | 122        | 0           | 0                  |

**Qualifiers:** NND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank  
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

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### Sample Receipt Checklist

Client Name: **SMA1005**

Date and Time Received: **11/10/2006 2:47:00 PM**

Work Order Number: **0611018**

Received by: **elc**

Checklist completed by:

*Yelina Cruz*

**11/10/06**

Signature

Date

Reviewed by:

*JK*

Initials

**11/19/06**

Date

Matrix:

Carrier name: John Hagstrom

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on sample bottles?

Yes ☒

No ☐

Not Present ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☒

Yes ☐

No ☐

Water - pH acceptable upon receipt?

Yes ☐

No ☒

*Soil samples*  
*soil samples*

Adjusted? \_\_\_\_\_

Checked by: \_\_\_\_\_

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: \_\_\_\_\_

Date contacted: \_\_\_\_\_

Person contacted: \_\_\_\_\_

Contacted by: \_\_\_\_\_

Regarding: \_\_\_\_\_

Comments:

Samples were received on ice.

Corrective Action: \_\_\_\_\_



# CHAIN OF CUSTODY RECORD

5544

6612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499  
Phone: (505) 327-1072 • Fax: (505) 327-1496

Date 11/10/06

Page

[illegible]

612 E. Murray Drive  
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*iiná bá*

P.O. Box 3788  
Shiprock, NM 87420

Off: (505) 368-4065

July 26, 2006

John Hagstrom  
Souder, Miller & Associates  
612 E. Murray Dr  
Farmington, NM 87401

TEL: 505-325-5667

FAX 505-327-1496

RE: Pure Resources R279/5116242

Order No.: 0607022

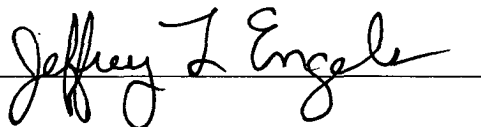
Dear John Hagstrom:

iiná bá received 5 samples on 7/17/2006 3:10:00 PM for the analyses presented in the following report.

This certificate of analysis includes the Analytical Report(s) for the sample(s) received by the laboratory. A Quality Control Summary Report, the Sample Receipt Checklist and an executed Chain of Custody are included as an addendum to this report.

Should you have any questions regarding this certificate of analysis, please contact the laboratory at your convenience.

Report Approved By:



Jeffrey Engels  
Laboratory Director

Edwina Aspaas  
Quality Assurance Officer

This certificate of analysis and respective material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the person responsible for delivering this to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify the laboratory immediately at 505-327-1072.



MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

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**iiná bá**

**Date:** 26-Jul-06

---

**CLIENT:** Souder, Miller & Associates  
**Project:** Pure Resources R279/5116242  
**Lab Order:** 0607022

---

## **CASE NARRATIVE**

Samples were analyzed using the methods outlined in one or more of the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983.

Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

Methods for the Determination of Metals in Environmental Samples, Supplement I, EPA-600/R-94/111,

May 1994.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s), the quality control summary report(s) or the sample receipt checklist.

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## ANALYTICAL REPORT

Date: 26-Jul-06

**CLIENT:** Souder, Miller & Associates  
**Work Order:** 0607022  
**Project:** Pure Resources R279/5116242  
**Lab ID:** 0607022-001A

**Client Sample Info:** Pure Resources Rincon 279  
**Client Sample ID:** R279 NE Corner  
**Collection Date:** 7/17/2006 11:45:00 AM  
**Matrix:** SOIL

| Parameter                      | Result | PQL            | Qual | Units | DF | Date Analyzed |
|--------------------------------|--------|----------------|------|-------|----|---------------|
| <b>DIESEL RANGE ORGANICS</b>   |        | <b>SW8015B</b> |      |       |    | Analyst: jem  |
| T/R Hydrocarbons: C10-C28      | 219    | 25.0           |      | mg/Kg | 1  | 7/19/2006     |
| Surr: o-Terphenyl              | 78.9   | 35-128         |      | %REC  | 1  | 7/19/2006     |
| <b>GASOLINE RANGE ORGANICS</b> |        | <b>SW8015B</b> |      |       |    | Analyst: jem  |
| T/R Hydrocarbons: C6-C10       | ND     | 2.50           |      | mg/Kg | 25 | 7/20/2006     |
| Surr: Trifluorotoluene         | 62.1   | 57-122         |      | %REC  | 25 | 7/20/2006     |

**Qualifiers:** ND - Not Detected at the Practical Quantitation Limit  
J - Analyte detected below Practical Quantitation Limit  
B - Analyte detected in the associated Method Blank  
H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted precision limits  
E - Value above Upper Quantitation Limit - UQL

Page 1 of 5

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

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## ANALYTICAL REPORT

Date: 26-Jul-06

**CLIENT:** Souder, Miller & Associates  
**Work Order:** 0607022  
**Project:** Pure Resources R279/5116242  
**Lab ID:** 0607022-002A

**Client Sample Info:** Pure Resources Rincon 279  
**Client Sample ID:** R279 NW Corner  
**Collection Date:** 7/17/2006 11:47:00 AM  
**Matrix:** SOIL

| Parameter                      | Result | PQL                      | Qual | Units        | DF | Date Analyzed |
|--------------------------------|--------|--------------------------|------|--------------|----|---------------|
| <b>DIESEL RANGE ORGANICS</b>   |        | <b>SW8015B</b>           |      | Analyst: jem |    |               |
| T/R Hydrocarbons: C10-C28      | 74.8   | 25.0                     |      | mg/Kg        | 1  | 7/19/2006     |
| Surr: o-Terphenyl              | 67.8   | 35-128                   |      | %REC         | 1  | 7/19/2006     |
| <b>GASOLINE RANGE ORGANICS</b> |        | <b>SW8015B (SW5035A)</b> |      | Analyst: jem |    |               |
| T/R Hydrocarbons: C6-C10       | ND     | 2.50                     |      | mg/Kg        | 25 | 7/20/2006     |
| Surr: Trifluorotoluene         | 61.7   | 57-122                   |      | %REC         | 25 | 7/20/2006     |

**Qualifiers:** ND - Not Detected at the Practical Quantitation Limit  
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MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

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## ANALYTICAL REPORT

Date: 26-Jul-06

**CLIENT:** Souder, Miller & Associates  
**Work Order:** 0607022  
**Project:** Pure Resources R279/5116242  
**Lab ID:** 0607022-003A

**Client Sample Info:** Pure Resources Rincon 279  
**Client Sample ID:** R279 SW Corner  
**Collection Date:** 7/17/2006 11:50:00 AM  
**Matrix:** SOIL

| Parameter                      | Result | PQL                      | Qual | Units        | DF | Date Analyzed |
|--------------------------------|--------|--------------------------|------|--------------|----|---------------|
| <b>DIESEL RANGE ORGANICS</b>   |        | <b>SW8015B</b>           |      | Analyst: jem |    |               |
| T/R Hydrocarbons: C10-C28      | ND     | 25.0                     |      | mg/Kg        | 1  | 7/19/2006     |
| Surr: o-Terphenyl              | 67.5   | 35-128                   |      | %REC         | 1  | 7/19/2006     |
| <b>GASOLINE RANGE ORGANICS</b> |        | <b>SW8015B (SW5035A)</b> |      | Analyst: jem |    |               |
| T/R Hydrocarbons: C6-C10       | ND     | 2.50                     |      | mg/Kg        | 25 | 7/20/2006     |
| Surr: Trifluorotoluene         | 61.9   | 57-122                   |      | %REC         | 25 | 7/20/2006     |

**Qualifiers:**  
ND - Not Detected at the Practical Quantitation Limit  
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MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

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## ANALYTICAL REPORT

Date: 26-Jul-06

**CLIENT:** Souder, Miller & Associates  
**Work Order:** 0607022  
**Project:** Pure Resources R279/5116242  
**Lab ID:** 0607022-004A

**Client Sample Info:** Pure Resources Rincon 279  
**Client Sample ID:** R279 SE Corner  
**Collection Date:** 7/17/2006 11:52:00 AM  
**Matrix:** SOIL

| Parameter                      | Result | PQL            | Qual | Units | DF | Date Analyzed |
|--------------------------------|--------|----------------|------|-------|----|---------------|
| <b>DIESEL RANGE ORGANICS</b>   |        | <b>SW8015B</b> |      |       |    | Analyst: jem  |
| T/R Hydrocarbons: C10-C28      | ND     | 25.0           |      | mg/Kg | 1  | 7/19/2006     |
| Surr: o-Terphenyl              | 76.1   | 35-128         |      | %REC  | 1  | 7/19/2006     |
| <b>GASOLINE RANGE ORGANICS</b> |        | <b>SW8015B</b> |      |       |    | Analyst: jem  |
| T/R Hydrocarbons: C6-C10       | ND     | 2.50           |      | mg/Kg | 25 | 7/20/2006     |
| Surr: Trifluorotoluene         | 62.5   | 57-122         |      | %REC  | 25 | 7/20/2006     |

**Qualifiers:** ND - Not Detected at the Practical Quantitation Limit  
J - Analyte detected below Practical Quantitation Limit  
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MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

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## ANALYTICAL REPORT

Date: 26-Jul-06

**CLIENT:** Souder, Miller & Associates  
**Work Order:** 0607022  
**Project:** Pure Resources R279/5116242  
**Lab ID:** 0607022-005A

**Client Sample Info:** Pure Resources Rincon 279  
**Client Sample ID:** R279 CP  
**Collection Date:** 7/17/2006 11:42:00 AM  
**Matrix:** SOIL

| Parameter                           | Result | PQL                      | Qual | Units        | DF  | Date Analyzed |
|-------------------------------------|--------|--------------------------|------|--------------|-----|---------------|
| <b>DIESEL RANGE ORGANICS</b>        |        | <b>SW8015B</b>           |      | Analyst: jem |     |               |
| T/R Hydrocarbons: C10-C28           | 135    | 25.0                     |      | mg/Kg        | 1   | 7/19/2006     |
| Surr: o-Terphenyl                   | 78.2   | 35-128                   |      | %REC         | 1   | 7/19/2006     |
| <b>GASOLINE RANGE ORGANICS</b>      |        | <b>SW8015B (SW5035A)</b> |      | Analyst: jem |     |               |
| T/R Hydrocarbons: C6-C10            | 70.6   | 2.50                     |      | mg/Kg        | 25  | 7/20/2006     |
| Surr: Trifluorotoluene              | 66.0   | 57-122                   |      | %REC         | 25  | 7/20/2006     |
| <b>AROMATIC VOLATILES BY GC/PID</b> |        | <b>SW8021B (SW5035A)</b> |      | Analyst: jem |     |               |
| Benzene                             | ND     | 50.0                     |      | µg/Kg        | 25  | 7/25/2006     |
| Ethylbenzene                        | 55.5   | 50.0                     |      | µg/Kg        | 25  | 7/25/2006     |
| m,p-Xylene                          | 427    | 400                      |      | µg/Kg        | 100 | 7/24/2006     |
| o-Xylene                            | 76.6   | 50.0                     |      | µg/Kg        | 25  | 7/25/2006     |
| Toluene                             | 201    | 50.0                     |      | µg/Kg        | 25  | 7/25/2006     |
| Surr: 1,4-Difluorobenzene           | 108    | 75-120                   |      | %REC         | 25  | 7/25/2006     |
| Surr: 1,4-Difluorobenzene           | 112    | 75-120                   |      | %REC         | 100 | 7/24/2006     |
| Surr: 4-Bromochlorobenzene          | 138    | 50-140                   |      | %REC         | 25  | 7/25/2006     |
| Surr: 4-Bromochlorobenzene          | 139    | 50-140                   |      | %REC         | 100 | 7/24/2006     |
| Surr: Fluorobenzene                 | 100    | 70-120                   |      | %REC         | 25  | 7/25/2006     |
| Surr: Fluorobenzene                 | 104    | 70-120                   |      | %REC         | 100 | 7/24/2006     |

**Qualifiers:** ND - Not Detected at the Practical Quantitation Limit      S - Spike Recovery outside accepted recovery limits  
J - Analyte detected below Practical Quantitation Limit      R - RPD outside accepted precision limits  
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H - Parameter exceeded Maximum Allowable Holding Time

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MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

iiná bá

Date: 26-Jul-06

CLIENT: Souder, Miller & Associates  
Work Order: 0607022  
Project: Pure Resources R279/5116242

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DR2\_S

|            |              |                 |                     |              |                          |                      |           |             |      |          |      |
|------------|--------------|-----------------|---------------------|--------------|--------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID  | MBLK_060719A | SampType: MBLK  | TestCode: 8015DR2_S | Units: mg/Kg | Prep Date: 7/18/2006     | Run ID: GC-2_060719A |           |             |      |          |      |
| Client ID: | ZZZZZ        | Batch ID: R8310 | TestNo: SW8015B     |              | Analysis Date: 7/19/2006 | SeqNo: 116278        |           |             |      |          |      |
| Analyte    | Result       | PQL             | SPK value           | SPK Ref Val  | %REC                     | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                           |                 |               |                     |              |                          |                      |           |             |      |          |      |
|---------------------------|-----------------|---------------|---------------------|--------------|--------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID                 | LCS_060719A     | SampType: LCS | TestCode: 8015DR2_S | Units: mg/Kg | Prep Date: 7/18/2006     | Run ID: GC-2_060719A |           |             |      |          |      |
| Client ID: ZZZZZ          | Batch ID: R8310 |               | TestNo: SW8015B     |              | Analysis Date: 7/19/2006 | SeqNo: 116280        |           |             |      |          |      |
| Analyte                   | Result          | PQL           | SPK value           | SPK Ref Val  | %REC                     | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| T/R Hydrocarbons: C10-C28 | 537.7           | 25.0          | 502                 | 0            | 107                      | 80                   | 120       | 0           | 0    |          |      |
| Surr: o-Terphenyl         | 28.4            | 0             | 39                  | 0            | 72.8                     | 35                   | 128       | 0           | 0    |          |      |

|                           |                |                 |                     |              |                          |                      |           |             |      |          |      |
|---------------------------|----------------|-----------------|---------------------|--------------|--------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID                 | 0607019-001AMS | SampType: MS    | TestCode: 8015DR2_S | Units: mg/Kg | Prep Date: 7/18/2006     | Run ID: GC-2_060719A |           |             |      |          |      |
| Client ID: ZZZZZ          |                | Batch ID: R8310 | TestNo: SW8015B     |              | Analysis Date: 7/19/2006 | SeqNo: 116282        |           |             |      |          |      |
| Analyte                   | Result         | PQL             | SPK value           | SPK Ref Val  | %REC                     | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| T/R Hydrocarbons: C10-C28 | 508.4          | 25.0            | 502                 | 11.74        | 98.9                     | 70                   | 130       | 0           | 0    |          |      |
| Surr: o-Terphenyl         | 24.02          | 0               | 39                  | 0            | 61.6                     | 35                   | 128       | 0           | 0    |          |      |

|                           |                 |                     |              |                          |                      |          |           |             |      |          |      |
|---------------------------|-----------------|---------------------|--------------|--------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID 0607023-001AD   | SampType: DUP   | TestCode: 8015DR2_S | Units: mg/Kg | Prep Date: 7/18/2006     | Run ID: GC-2_060719A |          |           |             |      |          |      |
| Client ID: ZZZZZ          | Batch ID: R8310 | TestNo: SW8015B     |              | Analysis Date: 7/19/2006 | SeqNo: 116295        |          |           |             |      |          |      |
| Analyte                   | Result          | PQL                 | SPK value    | SPK Ref Val              | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| T/R Hydrocarbons: C10-C28 | ND              | 25.0                | 0            | 0                        | 0                    | 0        | 0         | 0           | 0    | 12       |      |
| Surr: o-Terphenyl         | 30.7            | 0                   | 39           | 0                        | 78.7                 | 35       | 128       | 0           | 0    | 0        |      |

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**CLIENT:** Souder, Miller & Associates  
**Work Order:** 0607022  
**Project:** Pure Resources R279/5116242

# ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8015GRO\_S

|            |           |           |      |           |           |             |       |                |           |             |                    |
|------------|-----------|-----------|------|-----------|-----------|-------------|-------|----------------|-----------|-------------|--------------------|
| Sample ID  | MBLK_1316 | SampType: | MBLK | TestCode: | 8015GRO_S | Units:      | mg/Kg | Prep Date:     | 7/18/2006 | Run ID:     | GC-1B_060720A      |
| Client ID: | ZZZZ      | Batch ID: | 1316 | TestNo:   | SW8015B   | (SW5035A)   |       | Analysis Date: | 7/20/2006 | SeqNo:      | 116334             |
| Analyte    |           | Result    |      | PQL       | SPK value | SPK Ref Val | %REC  | LowLimit       | HighLimit | RPD Ref Val | %RPD RPDLimit Qual |

T/R Hydrocarbons: C6-C10 0.6854  
 Surr: Trifluorotoluene 1.555 2.50 0 2.5 0 62.2 57 122 0 0

|            |          |           |      |           |           |             |       |                |           |             |                    |
|------------|----------|-----------|------|-----------|-----------|-------------|-------|----------------|-----------|-------------|--------------------|
| Sample ID  | LCS_1316 | SampType: | LCS  | TestCode: | 8015GRO_S | Units:      | mg/Kg | Prep Date:     | 7/18/2006 | Run ID:     | GC-1B_060720A      |
| Client ID: | ZZZZ     | Batch ID: | 1316 | TestNo:   | SW8015B   | (SW5035A)   |       | Analysis Date: | 7/20/2006 | SeqNo:      | 116339             |
| Analyte    |          | Result    |      | PQL       | SPK value | SPK Ref Val | %REC  | LowLimit       | HighLimit | RPD Ref Val | %RPD RPDLimit Qual |

T/R Hydrocarbons: C6-C10 23.91  
 Surr: Trifluorotoluene 2.093 2.50 0 2.5 0 92.9 80 120 0 0

|            |                |           |      |           |           |             |       |                |           |             |                    |
|------------|----------------|-----------|------|-----------|-----------|-------------|-------|----------------|-----------|-------------|--------------------|
| Sample ID  | 0607019-001AMS | SampType: | MS   | TestCode: | 8015GRO_S | Units:      | mg/Kg | Prep Date:     |           | Run ID:     | GC-1B_060720A      |
| Client ID: | ZZZZ           | Batch ID: | 1316 | TestNo:   | SW8015B   | (SW5035A)   |       | Analysis Date: | 7/20/2006 | SeqNo:      | 116341             |
| Analyte    |                | Result    |      | PQL       | SPK value | SPK Ref Val | %REC  | LowLimit       | HighLimit | RPD Ref Val | %RPD RPDLimit Qual |

T/R Hydrocarbons: C6-C10 24.39  
 Surr: Trifluorotoluene 1.821 2.50 0 2.5 0 94.8 70 130 0 0

|            |                 |           |      |           |           |             |       |                |           |             |                    |
|------------|-----------------|-----------|------|-----------|-----------|-------------|-------|----------------|-----------|-------------|--------------------|
| Sample ID  | 0607019-001AMSD | SampType: | MSD  | TestCode: | 8015GRO_S | Units:      | mg/Kg | Prep Date:     |           | Run ID:     | GC-1B_060720A      |
| Client ID: | ZZZZ            | Batch ID: | 1316 | TestNo:   | SW8015B   | (SW5035A)   |       | Analysis Date: | 7/20/2006 | SeqNo:      | 116342             |
| Analyte    |                 | Result    |      | PQL       | SPK value | SPK Ref Val | %REC  | LowLimit       | HighLimit | RPD Ref Val | %RPD RPDLimit Qual |

T/R Hydrocarbons: C6-C10 23.47  
 Surr: Trifluorotoluene 1.816 2.50 0 2.5 0 91.1 70 130 24.39 15

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**CLIENT:** Souder, Miller & Associates  
**Work Order:** 0607022  
**Project:** Pure Resources R279/5116242

# ANALYTICAL QC SUMMARY REPORT

**TestCode:** BTEX\_S

|            |           |           |           |             |         |           |           |                |           |          |              |
|------------|-----------|-----------|-----------|-------------|---------|-----------|-----------|----------------|-----------|----------|--------------|
| Sample ID  | MB_060724 | SampType: | MBLK      | TestCode:   | BTEX_S  | Units:    | µg/Kg     | Prep Date:     | 7/18/2006 | Run ID:  | GC-1_060724A |
| Client ID: | ZZZZZ     | Batch ID: | 1316      | TestNo:     | SW8021B | (SW5035A) |           | Analysis Date: | 7/24/2006 | SeqNo:   | 116376       |
| Analyte    | Result    | PQL       | SPK value | SPK Ref Val | %REC    | LowLimit  | HighLimit | RPD Ref Val    | %RPD      | RPDLimit | Qual         |

|                            |       |      |     |   |     |    |     |   |   |   |   |
|----------------------------|-------|------|-----|---|-----|----|-----|---|---|---|---|
| Benzene                    | ND    | 10.0 |     |   |     |    |     |   |   |   |   |
| Ethylbenzene               | ND    | 10.0 |     |   |     |    |     |   |   |   |   |
| m,p-Xylene                 | ND    | 20.0 |     |   |     |    |     |   |   |   |   |
| o-Xylene                   | ND    | 10.0 |     |   |     |    |     |   |   |   |   |
| Toluene                    | 1.54  | 10.0 |     |   |     |    |     |   |   |   | J |
| Surr: 1,4-Difluorobenzene  | 563   | 0    | 500 | 0 | 113 | 75 | 120 | 0 | 0 | 0 |   |
| Surr: 4-Bromochlorobenzene | 689.7 | 0    | 500 | 0 | 138 | 50 | 140 | 0 | 0 | 0 |   |
| Surr: Fluorobenzene        | 521.1 | 0    | 500 | 0 | 104 | 70 | 120 | 0 | 0 | 0 |   |

|            |           |           |           |             |         |           |           |                |           |          |              |
|------------|-----------|-----------|-----------|-------------|---------|-----------|-----------|----------------|-----------|----------|--------------|
| Sample ID  | MB_060725 | SampType: | MBLK      | TestCode:   | BTEX_S  | Units:    | µg/Kg     | Prep Date:     | 7/18/2006 | Run ID:  | GC-1_060725A |
| Client ID: | ZZZZZ     | Batch ID: | 1316      | TestNo:     | SW8021B | (SW5035A) |           | Analysis Date: | 7/25/2006 | SeqNo:   | 116412       |
| Analyte    | Result    | PQL       | SPK value | SPK Ref Val | %REC    | LowLimit  | HighLimit | RPD Ref Val    | %RPD      | RPDLimit | Qual         |

|                            |       |      |     |   |     |    |     |   |   |   |   |
|----------------------------|-------|------|-----|---|-----|----|-----|---|---|---|---|
| Benzene                    | ND    | 10.0 |     |   |     |    |     |   |   |   |   |
| Ethylbenzene               | 1.139 | 10.0 |     |   |     |    |     |   |   |   | J |
| m,p-Xylene                 | ND    | 20.0 |     |   |     |    |     |   |   |   |   |
| o-Xylene                   | ND    | 10.0 |     |   |     |    |     |   |   |   |   |
| Toluene                    | ND    | 10.0 |     |   |     |    |     |   |   |   |   |
| Surr: 1,4-Difluorobenzene  | 557.1 | 0    | 500 | 0 | 111 | 75 | 120 | 0 | 0 | 0 |   |
| Surr: 4-Bromochlorobenzene | 696   | 0    | 500 | 0 | 139 | 50 | 140 | 0 | 0 | 0 |   |
| Surr: Fluorobenzene        | 512   | 0    | 500 | 0 | 102 | 70 | 120 | 0 | 0 | 0 |   |

|            |            |           |           |             |         |           |           |                |           |          |              |
|------------|------------|-----------|-----------|-------------|---------|-----------|-----------|----------------|-----------|----------|--------------|
| Sample ID  | LCS_060724 | SampType: | LCS       | TestCode:   | BTEX_S  | Units:    | µg/Kg     | Prep Date:     |           | Run ID:  | GC-1_060724A |
| Client ID: | ZZZZZ      | Batch ID: | 1316      | TestNo:     | SW8021B | (SW5035A) |           | Analysis Date: | 7/24/2006 | SeqNo:   | 116375       |
| Analyte    | Result     | PQL       | SPK value | SPK Ref Val | %REC    | LowLimit  | HighLimit | RPD Ref Val    | %RPD      | RPDLimit | Qual         |

|              |       |      |     |      |     |    |     |   |   |   |  |
|--------------|-------|------|-----|------|-----|----|-----|---|---|---|--|
| Benzene      | 212.1 | 10.0 | 200 | 0    | 106 | 70 | 130 | 0 | 0 | 0 |  |
| Ethylbenzene | 220.6 | 10.0 | 200 | 0    | 110 | 70 | 130 | 0 | 0 | 0 |  |
| m,p-Xylene   | 433.5 | 20.0 | 400 | 0    | 108 | 70 | 130 | 0 | 0 | 0 |  |
| o-Xylene     | 221.9 | 10.0 | 200 | 0    | 111 | 70 | 130 | 0 | 0 | 0 |  |
| Toluene      | 226.7 | 10.0 | 200 | 1.54 | 113 | 70 | 130 | 0 | 0 | 0 |  |

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**CLIENT:** Souder, Miller & Associates  
**Work Order:** 0607022  
**Project:** Pure Resources R279/5116242

# ANALYTICAL QC SUMMARY REPORT

**TestCode:** BTEX\_S

|            |            |           |           |             |         |           |           |                |           |          |              |
|------------|------------|-----------|-----------|-------------|---------|-----------|-----------|----------------|-----------|----------|--------------|
| Sample ID  | LCS_060724 | SampType: | LCS       | TestCode:   | BTEX_S  | Units:    | µg/Kg     | Prep Date:     |           | Run ID:  | GC-1_060724A |
| Client ID: | ZZZZ       | Batch ID: | 1316      | TestNo:     | SW8021B | (SW5035A) |           | Analysis Date: | 7/24/2006 | SeqNo:   | 116375       |
| Analyte    | Result     | PQL       | SPK value | SPK Ref Val | %REC    | LowLimit  | HighLimit | RPD Ref Val    | %RPD      | RPDLimit | Qual         |

|                            |       |   |     |   |     |    |     |   |   |  |  |
|----------------------------|-------|---|-----|---|-----|----|-----|---|---|--|--|
| Surr: 1,4-Difluorobenzene  | 547.5 | 0 | 500 | 0 | 109 | 75 | 120 | 0 | 0 |  |  |
| Surr: 4-Bromochlorobenzene | 624.4 | 0 | 500 | 0 | 125 | 50 | 140 | 0 | 0 |  |  |
| Surr: Fluorobenzene        | 506.9 | 0 | 500 | 0 | 101 | 70 | 120 | 0 | 0 |  |  |

|            |            |           |           |             |         |           |           |                |           |          |              |
|------------|------------|-----------|-----------|-------------|---------|-----------|-----------|----------------|-----------|----------|--------------|
| Sample ID  | LCS_060725 | SampType: | LCS       | TestCode:   | BTEX_S  | Units:    | µg/Kg     | Prep Date:     |           | Run ID:  | GC-1_060725A |
| Client ID: | ZZZZ       | Batch ID: | 1316      | TestNo:     | SW8021B | (SW5035A) |           | Analysis Date: | 7/25/2006 | SeqNo:   | 116410       |
| Analyte    | Result     | PQL       | SPK value | SPK Ref Val | %REC    | LowLimit  | HighLimit | RPD Ref Val    | %RPD      | RPDLimit | Qual         |

|                            |       |      |     |       |     |    |     |   |   |  |  |
|----------------------------|-------|------|-----|-------|-----|----|-----|---|---|--|--|
| Benzene                    | 212.8 | 10.0 | 200 | 0     | 106 | 70 | 130 | 0 | 0 |  |  |
| Ethylbenzene               | 218.3 | 10.0 | 200 | 1.139 | 109 | 70 | 130 | 0 | 0 |  |  |
| m,p-Xylene                 | 426.5 | 20.0 | 400 | 0     | 107 | 70 | 130 | 0 | 0 |  |  |
| o-Xylene                   | 218.8 | 10.0 | 200 | 0     | 109 | 70 | 130 | 0 | 0 |  |  |
| Toluene                    | 214.6 | 10.0 | 200 | 0     | 107 | 70 | 130 | 0 | 0 |  |  |
| Surr: 1,4-Difluorobenzene  | 550.9 | 0    | 500 | 0     | 110 | 75 | 120 | 0 | 0 |  |  |
| Surr: 4-Bromochlorobenzene | 675.8 | 0    | 500 | 0     | 135 | 50 | 140 | 0 | 0 |  |  |
| Surr: Fluorobenzene        | 508.1 | 0    | 500 | 0     | 102 | 70 | 120 | 0 | 0 |  |  |

|            |                |           |           |             |         |           |           |                |           |          |              |
|------------|----------------|-----------|-----------|-------------|---------|-----------|-----------|----------------|-----------|----------|--------------|
| Sample ID  | 0607019-004AMS | SampType: | MS        | TestCode:   | BTEX_S  | Units:    | µg/Kg     | Prep Date:     |           | Run ID:  | GC-1_060724A |
| Client ID: | ZZZZ           | Batch ID: | 1316      | TestNo:     | SW8021B | (SW5035A) |           | Analysis Date: | 7/24/2006 | SeqNo:   | 116377       |
| Analyte    | Result         | PQL       | SPK value | SPK Ref Val | %REC    | LowLimit  | HighLimit | RPD Ref Val    | %RPD      | RPDLimit | Qual         |

|                            |       |      |     |       |      |    |     |   |   |  |  |
|----------------------------|-------|------|-----|-------|------|----|-----|---|---|--|--|
| Benzene                    | 219.5 | 10.0 | 200 | 0     | 110  | 70 | 130 | 0 | 0 |  |  |
| Ethylbenzene               | 229.5 | 10.0 | 200 | 4.396 | 113  | 70 | 130 | 0 | 0 |  |  |
| m,p-Xylene                 | 441.7 | 20.0 | 400 | 0     | 110  | 70 | 130 | 0 | 0 |  |  |
| o-Xylene                   | 225.8 | 10.0 | 200 | 0     | 113  | 70 | 130 | 0 | 0 |  |  |
| Toluene                    | 222.5 | 10.0 | 200 | 2.717 | 110  | 70 | 130 | 0 | 0 |  |  |
| Surr: 1,4-Difluorobenzene  | 534.6 | 0    | 500 | 0     | 107  | 75 | 120 | 0 | 0 |  |  |
| Surr: 4-Bromochlorobenzene | 638.1 | 0    | 500 | 0     | 128  | 50 | 140 | 0 | 0 |  |  |
| Surr: Fluorobenzene        | 499.6 | 0    | 500 | 0     | 99.9 | 70 | 120 | 0 | 0 |  |  |

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank  
Page 4 of 6

CLIENT: Souder, Miller & Associates  
 Work Order: 0607022  
 Project: Pure Resources R279/5116242

# ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX\_S

|            |                |                |                  |              |                          |                      |           |             |      |          |      |
|------------|----------------|----------------|------------------|--------------|--------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID  | 0607022-005AMS | SampType: MS   | TestCode: BTEX_S | Units: µg/Kg | Prep Date:               | Run ID: GC-1_060725A |           |             |      |          |      |
| Client ID: | R279 CP        | Batch ID: 1316 | TestNo: SW8021B  | (SW5035A)    | Analysis Date: 7/25/2006 | SeqNo: 116406        |           |             |      |          |      |
| Analyte    | Result         | PQL            | SPK value        | SPK Ref Val  | %REC                     | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                            |       |     |       |       |      |    |     |   |   |  |  |
|----------------------------|-------|-----|-------|-------|------|----|-----|---|---|--|--|
| Benzene                    | 3843  | 200 | 4000  | 0     | 96.1 | 70 | 130 | 0 | 0 |  |  |
| Ethylbenzene               | 3978  | 200 | 4000  | 73.71 | 97.6 | 70 | 130 | 0 | 0 |  |  |
| m,p-Xylene                 | 7846  | 400 | 8000  | 416.1 | 92.9 | 70 | 130 | 0 | 0 |  |  |
| o-Xylene                   | 4052  | 200 | 4000  | 63.19 | 99.7 | 70 | 130 | 0 | 0 |  |  |
| Toluene                    | 3852  | 200 | 4000  | 159.4 | 92.3 | 70 | 130 | 0 | 0 |  |  |
| Surr: 1,4-Difluorobenzene  | 10920 | 0   | 10000 | 0     | 109  | 75 | 120 | 0 | 0 |  |  |
| Surr: 4-Bromochlorobenzene | 13920 | 0   | 10000 | 0     | 139  | 50 | 140 | 0 | 0 |  |  |
| Surr: Fluorobenzene        | 9995  | 0   | 10000 | 0     | 99.9 | 70 | 120 | 0 | 0 |  |  |

|            |                 |                |                  |              |                          |                      |           |             |      |          |      |
|------------|-----------------|----------------|------------------|--------------|--------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID  | 0607019-004AMSD | SampType: MSD  | TestCode: BTEX_S | Units: µg/Kg | Prep Date:               | Run ID: GC-1_060724A |           |             |      |          |      |
| Client ID: | ZZZZZ           | Batch ID: 1316 | TestNo: SW8021B  | (SW5035A)    | Analysis Date: 7/24/2006 | SeqNo: 116378        |           |             |      |          |      |
| Analyte    | Result          | PQL            | SPK value        | SPK Ref Val  | %REC                     | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                            |       |      |     |       |     |    |     |       |      |    |  |
|----------------------------|-------|------|-----|-------|-----|----|-----|-------|------|----|--|
| Benzene                    | 207.4 | 10.0 | 200 | 0     | 104 | 70 | 130 | 219.5 | 5.64 | 15 |  |
| Ethylbenzene               | 216.7 | 10.0 | 200 | 4.396 | 106 | 70 | 130 | 229.5 | 5.74 | 15 |  |
| m,p-Xylene                 | 417.1 | 20.0 | 400 | 0     | 104 | 70 | 130 | 441.7 | 5.71 | 15 |  |
| o-Xylene                   | 214.5 | 10.0 | 200 | 0     | 107 | 70 | 130 | 225.8 | 5.09 | 15 |  |
| Toluene                    | 210.5 | 10.0 | 200 | 2.717 | 104 | 70 | 130 | 222.5 | 5.54 | 15 |  |
| Surr: 1,4-Difluorobenzene  | 538.7 | 0    | 500 | 0     | 108 | 75 | 120 | 0     | 0    | 0  |  |
| Surr: 4-Bromochlorobenzene | 609.9 | 0    | 500 | 0     | 122 | 50 | 140 | 0     | 0    | 0  |  |
| Surr: Fluorobenzene        | 503.9 | 0    | 500 | 0     | 101 | 70 | 120 | 0     | 0    | 0  |  |

|            |                 |                |                  |              |                          |                      |           |             |      |          |      |
|------------|-----------------|----------------|------------------|--------------|--------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID  | 0607022-005AMSD | SampType: MSD  | TestCode: BTEX_S | Units: µg/Kg | Prep Date:               | Run ID: GC-1_060725A |           |             |      |          |      |
| Client ID: | R279 CP         | Batch ID: 1316 | TestNo: SW8021B  | (SW5035A)    | Analysis Date: 7/25/2006 | SeqNo: 116414        |           |             |      |          |      |
| Analyte    | Result          | PQL            | SPK value        | SPK Ref Val  | %REC                     | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|              |      |     |      |       |      |    |     |      |      |    |  |
|--------------|------|-----|------|-------|------|----|-----|------|------|----|--|
| Benzene      | 3762 | 200 | 4000 | 0     | 94   | 70 | 130 | 3843 | 2.14 | 15 |  |
| Ethylbenzene | 3889 | 200 | 4000 | 73.71 | 95.4 | 70 | 130 | 3978 | 2.25 | 15 |  |
| m,p-Xylene   | 7677 | 400 | 8000 | 416.1 | 90.8 | 70 | 130 | 7846 | 2.19 | 15 |  |
| o-Xylene     | 3981 | 200 | 4000 | 63.19 | 97.9 | 70 | 130 | 4052 | 1.77 | 15 |  |
| Toluene      | 3786 | 200 | 4000 | 159.4 | 90.7 | 70 | 130 | 3852 | 1.74 | 15 |  |

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Souder, Miller & Associates  
Work Order: 0607022  
Project: Pure Resources R279/5116242

## ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX\_S

|                            |                 |                |                  |              |                          |                      |          |           |             |      |          |      |
|----------------------------|-----------------|----------------|------------------|--------------|--------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID                  | 0607022-005AMSD | SampType: MSD  | TestCode: BTEX_S | Units: µg/Kg | Prep Date:               | Run ID: GC-1_060725A |          |           |             |      |          |      |
| Client ID:                 | R279 CP         | Batch ID: 1316 | TestNo: SW8021B  | (SW5035A)    | Analysis Date: 7/25/2006 | SeqNo: 116414        |          |           |             |      |          |      |
| Analyte                    |                 | Result         | PQL              | SPK value    | SPK Ref Val              | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: 1,4-Difluorobenzene  |                 | 10890          | 0                | 10000        | 0                        | 109                  | 75       | 120       | 0           | 0    | 0        |      |
| Surr: 4-Bromochlorobenzene |                 | 12730          | 0                | 10000        | 0                        | 127                  | 50       | 140       | 0           | 0    | 0        |      |
| Surr: Fluorobenzene        |                 | 9914           | 0                | 10000        | 0                        | 99.1                 | 70       | 120       | 0           | 0    | 0        |      |

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

iiná bá

### Sample Receipt Checklist

Client Name: SMA1005

Date and Time Received: 7/17/2006 3:10:00 PM

Work Order Number: 0607022

Received by: jle

Checklist completed by:

*J. Engle*  
Signature

7/17/06  
Date

Reviewed by:

*J. Engle*  
Initials

7/17/06  
Date

Matrix:

Carrier name: SMA

|                                                         |                                                            |                                        |                                                 |
|---------------------------------------------------------|------------------------------------------------------------|----------------------------------------|-------------------------------------------------|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>            | Not Present <input type="checkbox"/>            |
| Custody seals intact on shipping container/cooler?      | Yes <input type="checkbox"/>                               | No <input type="checkbox"/>            | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>                               | No <input type="checkbox"/>            | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>            |                                                 |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>            |                                                 |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>            |                                                 |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>            |                                                 |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>            |                                                 |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>            |                                                 |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>            |                                                 |
| Container/Temp Blank temperature in compliance?         | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>            | 3.5°C                                           |
| Water - VOA vials have zero headspace?                  | No VOA vials submitted <input checked="" type="checkbox"/> | Yes <input type="checkbox"/>           | No <input type="checkbox"/>                     |
| Water - pH acceptable upon receipt?                     | Yes <input type="checkbox"/>                               | No <input checked="" type="checkbox"/> | N/A - SOILS                                     |

Adjusted? \_\_\_\_\_ Checked by: \_\_\_\_\_

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted: \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments: \_\_\_\_\_

Corrective Action: \_\_\_\_\_



612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499  
Phone: (505) 327-1072 • Fax: (505) 327-1496

## CHAIN OF CUSTODY RECORD

5405

Page 1 of 1

Date 7/17/06

|                                        |  |                    |  |
|----------------------------------------|--|--------------------|--|
| Report to: J. Hagstrom                 |  | PO No.: 5716242    |  |
| Company: SMTA                          |  | Name:              |  |
| Address: 612 E. MURRAY                 |  | Company:           |  |
| City: FARMINGTON, NM                   |  | Address:           |  |
| Phone:                                 |  | City:              |  |
| Fax:                                   |  | Analysis Requested |  |
| Email:                                 |  |                    |  |
| Turnaround Time:                       |  |                    |  |
| 10 days (normal) <u>Y</u>              |  |                    |  |
| 24-48 hours (100%) <u>  </u>           |  |                    |  |
| 3-5 days (50%) <u>  </u>               |  |                    |  |
| On Ice <u>X</u> <u>35°C</u>            |  |                    |  |
| Subcontract Yes <u>  </u> No <u>  </u> |  |                    |  |
| SEND INVOICE TO:                       |  |                    |  |
| NUMBER OF CONTAINERS:                  |  |                    |  |
| Analysis Requested                     |  |                    |  |
| Lab ID                                 |  |                    |  |
| 6607022-001                            |  |                    |  |
| -002                                   |  |                    |  |
| -003                                   |  |                    |  |
| -004                                   |  |                    |  |
| -005                                   |  |                    |  |
| Date/Time: 7/17/06 15:10               |  |                    |  |
| Received by: J. Hagstrom               |  |                    |  |
| Date/Time:                             |  |                    |  |
| Received by:                           |  |                    |  |
| Date/Time:                             |  |                    |  |
| Received by:                           |  |                    |  |
| Date/Time:                             |  |                    |  |
| Comments:                              |  |                    |  |

Sampling Location:

PURE RESOURCES (CHEVRON) RINCON 279

Sample Identification

Sample Date Time Matrix Pres.

|      |           |              |      |      |
|------|-----------|--------------|------|------|
| R279 | NE corner | 7/17/06 1145 | SOIL | COOL |
|      | NW        | 1147         |      |      |
|      | SW        | 1150         |      |      |
|      | SE        | 1152         |      |      |
|      | CP        | 1142         |      |      |

612 E. Murray Drive  
Farmington, NM 87401

Off: (505) 327-1072  
Fax: (505) 327-1496

# *iiná bá*

P.O. Box 3788  
Shiprock, NM 87420

Off: (505) 368-4065

June 15, 2005

John Hagstrom  
Souder, Miller & Associates  
612 E. Murray Dr  
Farmington, NM 87401

TEL: 505-325-1556  
FAX 505-327-1496

RE: Pure Resources Rincon 279 Pit

Order No.: 0505060

Dear John Hagstrom:

iiná bá received 2 samples on 5/27/2005 3:40:00 PM for the analyses presented in the following report.

This certificate of analysis includes the Analytical Report(s) for the sample(s) received by the laboratory. A Quality Control Summary Report, the Sample Receipt Checklist and an executed Chain of Custody are included as an addendum to this report.

Should you have any questions regarding this certificate of analysis, please contact the laboratory at your convenience.

Report Approved By:



Jeffrey Engels  
Laboratory Director

Edwina Aspaas  
Quality Assurance Officer

This certificate of analysis and respective material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the person responsible for delivering this to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify the laboratory immediately at 505-327-1072.



MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

612 E. Murray Drive  
Farmington, NM 87499

Off: (505) 327-1072  
FAX: (505) 327-1496

*iiná bá*

P.O. Box 3788  
Shiprock, NM 87420

Off: (505) 368-4065

**iiná bá**

**Date:** 15-Jun-05

**CLIENT:** Souder, Miller & Associates  
**Project:** Pure Resources Rincon 279 Pit  
**Lab Order:** 0505060

## **CASE NARRATIVE**

Samples were analyzed using the methods outlined in the following reference:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

Diesel method blank o-Terphenyl failed low. Method blank ND, surrogates for samples within limits.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s), the quality control summary report(s) or the sample receipt checklist.

612 E. Murray Drive  
Farmington, NM 87499

Off: (505) 327-1072  
FAX: (505) 327-1496

## ANALYTICAL REPORT

# iiná bá

P.O. Box 3788  
Shiprock, NM 87420

Off: (505) 368-4065

Date: 15-Jun-05

**CLIENT:** Souder, Miller & Associates  
**Work Order:** 0505060  
**Project:** Pure Resources Rincon 279 Pit  
**Lab ID:** 0505060-001A

**Client Sample Info:** Pure Resources  
**Client Sample ID:** Rincon 279 SW  
**Collection Date:** 5/27/2005 10:15:00 AM  
**Matrix:** SOIL

| Parameter                      | Result | PQL            | Qual | Units               | DF | Date Analyzed |
|--------------------------------|--------|----------------|------|---------------------|----|---------------|
| <b>DIESEL RANGE ORGANICS</b>   |        | <b>SW8015B</b> |      | Analyst: <b>JEM</b> |    |               |
| T/R Hydrocarbons: C10-C28      | ND     | 25.0           |      | mg/Kg               | 1  | 6/10/2005     |
| Surr: o-Terphenyl              | 75.3   | 57-136         |      | %REC                | 1  | 6/10/2005     |
| <b>GASOLINE RANGE ORGANICS</b> |        | <b>SW8015B</b> |      | Analyst: <b>JEM</b> |    |               |
| T/R Hydrocarbons: C6-C10       | ND     | 4.50           |      | mg/Kg               | 25 | 6/9/2005      |
| Surr: Trifluorotoluene         | 102    | 84-149         |      | %REC                | 25 | 6/9/2005      |

**Qualifiers:**

|                                                         |                                                     |
|---------------------------------------------------------|-----------------------------------------------------|
| ND - Not Detected at the Practical Quantitation Limit   | S - Spike Recovery outside accepted recovery limits |
| J - Analyte detected below Practical Quantitation Limit | R - RPD outside accepted precision limits           |
| B - Analyte detected in the associated Method Blank     | E - Value above Upper Quantitation Limit - UQL      |
| H - Parameter exceeded Maximum Allowable Holding Time   |                                                     |

612 E. Murray Drive  
Farmington, NM 87499

Off: (505) 327-1072

FAX: (505) 327-1496

## ANALYTICAL REPORT

# iiná bá

P.O. Box 3788  
Shiprock, NM 87420

Off: (505) 368-4065

Date: 15-Jun-05

**CLIENT:** Souder, Miller & Associates  
**Work Order:** 0505060  
**Project:** Pure Resources Rincon 279 Pit  
**Lab ID:** 0505060-002A

**Client Sample Info:** Pure Resources  
**Client Sample ID:** Rincon 279 CP  
**Collection Date:** 5/27/2005 10:17:00 AM  
**Matrix:** SOIL

| Parameter                           | Result | PQL            | Qual | Units        | DF   | Date Analyzed |
|-------------------------------------|--------|----------------|------|--------------|------|---------------|
| <b>DIESEL RANGE ORGANICS</b>        |        | <b>SW8015B</b> |      | Analyst: JEM |      |               |
| T/R Hydrocarbons: C10-C28           | 3550   | 25.0           |      | mg/Kg        | 1    | 6/10/2005     |
| Surr: o-Terphenyl                   | 94.0   | 57-136         |      | %REC         | 1    | 6/10/2005     |
| <b>GASOLINE RANGE ORGANICS</b>      |        | <b>SW8015B</b> |      | Analyst: JEM |      |               |
| T/R Hydrocarbons: C6-C10            | 2340   | 180            |      | mg/Kg        | 1000 | 6/9/2005      |
| Surr: Trifluorotoluene              | 120    | 84-149         |      | %REC         | 1000 | 6/9/2005      |
| <b>AROMATIC VOLATILES BY GC/PID</b> |        | <b>SW8021B</b> |      | Analyst: JEM |      |               |
| Benzene                             | 793    | 250            |      | µg/Kg        | 250  | 6/8/2005      |
| Ethylbenzene                        | 5140   | 250            |      | µg/Kg        | 250  | 6/8/2005      |
| m,p-Xylene                          | 46800  | 500            |      | µg/Kg        | 250  | 6/8/2005      |
| o-Xylene                            | 22700  | 250            |      | µg/Kg        | 250  | 6/8/2005      |
| Toluene                             | 5310   | 500            |      | µg/Kg        | 250  | 6/8/2005      |
| Surr: 1,4-Difluorobenzene           | 79.8   | 75-110         |      | %REC         | 250  | 6/8/2005      |
| Surr: 4-Bromochlorobenzene          | 113    | 40-135         |      | %REC         | 250  | 6/8/2005      |
| Surr: Fluorobenzene                 | 81.4   | 69-110         |      | %REC         | 250  | 6/8/2005      |

**Qualifiers:**  
ND - Not Detected at the Practical Quantitation Limit  
J - Analyte detected below Practical Quantitation Limit  
B - Analyte detected in the associated Method Blank  
H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted precision limits  
E - Value above Upper Quantitation Limit - UQL

iiná bá

Date: 15-Jun-05

**CLIENT:** Souder, Miller & Associates  
**Work Order:** 0505060

**Project:** Pure Resources Rincon 279 Pit

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8015DR2\_S

|            |             |           |       |           |           |             |       |                |           |             |              |          |      |
|------------|-------------|-----------|-------|-----------|-----------|-------------|-------|----------------|-----------|-------------|--------------|----------|------|
| Sample ID  | MBLK_050610 | SampType: | MBLK  | TestCode: | 8015DR2_S | Units:      | mg/Kg | Prep Date:     | 6/9/2005  | Run ID:     | GC-2_050610A |          |      |
| Client ID: | ZZZZZ       | Batch ID: | R7017 | TestNo:   | SW8015B   |             |       | Analysis Date: | 6/10/2005 | SeqNo:      | 98427        |          |      |
| Analyte    |             | Result    |       | PQL       | SPK value | SPK Ref Val | %REC  | LowLimit       | HighLimit | RPD Ref Val | %RPD         | RPDLimit | Qual |

T/R Hydrocarbons: C10-C28  
 Surr: o-Terphenyl  
 ND  
 27.44  
 25.0  
 0  
 49  
 0  
 56  
 57  
 136  
 0  
 0  
 0  
 S

|            |            |           |       |           |           |             |       |                |           |             |              |          |      |
|------------|------------|-----------|-------|-----------|-----------|-------------|-------|----------------|-----------|-------------|--------------|----------|------|
| Sample ID  | LCS_056010 | SampType: | LCS   | TestCode: | 8015DR2_S | Units:      | mg/Kg | Prep Date:     | 6/9/2005  | Run ID:     | GC-2_050610A |          |      |
| Client ID: | ZZZZZ      | Batch ID: | R7017 | TestNo:   | SW8015B   |             |       | Analysis Date: | 6/10/2005 | SeqNo:      | 98429        |          |      |
| Analyte    |            | Result    |       | PQL       | SPK value | SPK Ref Val | %REC  | LowLimit       | HighLimit | RPD Ref Val | %RPD         | RPDLimit | Qual |

T/R Hydrocarbons: C10-C28  
 Surr: o-Terphenyl  
 559.4  
 30.19  
 25.0  
 0  
 49  
 0  
 112  
 71  
 115  
 0  
 0  
 0  
 0

|            |                |           |       |           |           |             |       |                |           |             |              |          |      |
|------------|----------------|-----------|-------|-----------|-----------|-------------|-------|----------------|-----------|-------------|--------------|----------|------|
| Sample ID  | 0505057-002AMS | SampType: | MS    | TestCode: | 8015DR2_S | Units:      | mg/Kg | Prep Date:     | 6/9/2005  | Run ID:     | GC-2_050610A |          |      |
| Client ID: | ZZZZZ          | Batch ID: | R7017 | TestNo:   | SW8015B   |             |       | Analysis Date: | 6/10/2005 | SeqNo:      | 98433        |          |      |
| Analyte    |                | Result    |       | PQL       | SPK value | SPK Ref Val | %REC  | LowLimit       | HighLimit | RPD Ref Val | %RPD         | RPDLimit | Qual |

T/R Hydrocarbons: C10-C28  
 Surr: o-Terphenyl  
 691.1  
 48.47  
 25.0  
 0  
 501  
 49  
 101  
 60  
 130  
 0  
 0  
 0  
 0

|            |               |           |       |           |           |             |       |                |           |             |              |          |      |
|------------|---------------|-----------|-------|-----------|-----------|-------------|-------|----------------|-----------|-------------|--------------|----------|------|
| Sample ID  | 0505057-001AD | SampType: | DUP   | TestCode: | 8015DR2_S | Units:      | mg/Kg | Prep Date:     | 6/9/2005  | Run ID:     | GC-2_050610A |          |      |
| Client ID: | ZZZZZ         | Batch ID: | R7017 | TestNo:   | SW8015B   |             |       | Analysis Date: | 6/10/2005 | SeqNo:      | 98431        |          |      |
| Analyte    |               | Result    |       | PQL       | SPK value | SPK Ref Val | %REC  | LowLimit       | HighLimit | RPD Ref Val | %RPD         | RPDLimit | Qual |

T/R Hydrocarbons: C10-C28  
 Surr: o-Terphenyl  
 ND  
 46.09  
 25.0  
 0  
 49  
 0  
 94.1  
 57  
 136  
 0  
 0  
 35  
 0

|            |             |           |       |           |           |             |       |                |           |             |              |          |      |
|------------|-------------|-----------|-------|-----------|-----------|-------------|-------|----------------|-----------|-------------|--------------|----------|------|
| Sample ID  | CCV1_050610 | SampType: | CCV   | TestCode: | 8015DR2_S | Units:      | mg/Kg | Prep Date:     | 6/9/2005  | Run ID:     | GC-2_050610A |          |      |
| Client ID: | ZZZZZ       | Batch ID: | R7017 | TestNo:   | SW8015B   |             |       | Analysis Date: | 6/10/2005 | SeqNo:      | 98428        |          |      |
| Analyte    |             | Result    |       | PQL       | SPK value | SPK Ref Val | %REC  | LowLimit       | HighLimit | RPD Ref Val | %RPD         | RPDLimit | Qual |

T/R Hydrocarbons: C10-C28  
 545.9  
 25.0  
 501  
 0  
 109  
 85  
 115  
 0  
 0  
 0

**Qualifiers:** ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

**CLIENT:** Souder, Miller & Associates  
**Work Order:** 0505060  
**Project:** Pure Resources Rincon 279 Pit

# ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8015DR2\_S

|                  |             |                 |                     |              |                          |                      |           |             |      |          |      |
|------------------|-------------|-----------------|---------------------|--------------|--------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID        | CCV1_050610 | SampType: CCV   | TestCode: 8015DR2_S | Units: mg/Kg | Prep Date: 6/9/2005      | Run ID: GC-2_050610A |           |             |      |          |      |
| Client ID: ZZZZZ |             | Batch ID: R7017 | TestNo: SW8015B     |              | Analysis Date: 6/10/2005 | SeqNo: 98428         |           |             |      |          |      |
| Analyte          | Result      | PQL             | SPK value           | SPK Ref Val  | %REC                     | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                  |             |                 |                     |              |                          |                      |           |             |      |          |      |
|------------------|-------------|-----------------|---------------------|--------------|--------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID        | CCV2_050610 | SampType: CCV   | TestCode: 8015DR2_S | Units: mg/Kg | Prep Date: 6/9/2005      | Run ID: GC-2_050610A |           |             |      |          |      |
| Client ID: ZZZZZ |             | Batch ID: R7017 | TestNo: SW8015B     |              | Analysis Date: 6/10/2005 | SeqNo: 98442         |           |             |      |          |      |
| Analyte          | Result      | PQL             | SPK value           | SPK Ref Val  | %REC                     | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                  |             |                 |                     |              |                          |                      |           |             |      |          |      |
|------------------|-------------|-----------------|---------------------|--------------|--------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID        | CCV3_050610 | SampType: CCV   | TestCode: 8015DR2_S | Units: mg/Kg | Prep Date: 6/9/2005      | Run ID: GC-2_050610A |           |             |      |          |      |
| Client ID: ZZZZZ |             | Batch ID: R7017 | TestNo: SW8015B     |              | Analysis Date: 6/10/2005 | SeqNo: 98450         |           |             |      |          |      |
| Analyte          | Result      | PQL             | SPK value           | SPK Ref Val  | %REC                     | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                  |                 |               |                     |              |                          |                      |           |             |      |          |      |
|------------------|-----------------|---------------|---------------------|--------------|--------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID        | CCV4_050610     | SampType: CCV | TestCode: 8015DR2_S | Units: mg/Kg | Prep Date: 6/9/2005      | Run ID: GC-2_050610A |           |             |      |          |      |
| Client ID: ZZZZZ | Batch ID: R7017 |               | TestNo: SW8015B     |              | Analysis Date: 6/10/2005 | SeqNo: 98451         |           |             |      |          |      |
| Analyte          | Result          | PQL           | SPK value           | SPK Ref Val  | %REC                     | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT:  
Work Order:

Souder, Miller & Associates  
0505060

# ANALYTICAL QC SUMMARY REPORT

Project: Pure Resources Rincon 279 Pit

TestCode: 8015GRO\_S

|                  |              |                 |                     |              |                         |                       |          |           |             |      |          |      |
|------------------|--------------|-----------------|---------------------|--------------|-------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID        | MBLK_050609A | SampType: MBLK  | TestCode: 8015GRO_S | Units: mg/Kg | Prep Date: 6/7/2005     | Run ID: GC-1B_050609A |          |           |             |      |          |      |
| Client ID: ZZZZZ |              | Batch ID: R7012 | TestNo: SW8015B     |              | Analysis Date: 6/9/2005 | SeqNo: 98351          |          |           |             |      |          |      |
| Analyte          |              | Result          | PQL                 | SPK value    | SPK Ref Val             | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                  |             |                 |                     |              |                         |                       |          |           |             |      |          |      |
|------------------|-------------|-----------------|---------------------|--------------|-------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID        | LCS_050609A | SampType: LCS   | TestCode: 8015GRO_S | Units: mg/Kg | Prep Date: 6/7/2005     | Run ID: GC-1B_050609A |          |           |             |      |          |      |
| Client ID: ZZZZZ |             | Batch ID: R7012 | TestNo: SW8015B     |              | Analysis Date: 6/9/2005 | SeqNo: 98353          |          |           |             |      |          |      |
| Analyte          |             | Result          | PQL                 | SPK value    | SPK Ref Val             | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                  |                |                 |                     |              |                         |                       |          |           |             |      |          |      |
|------------------|----------------|-----------------|---------------------|--------------|-------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID        | 0505058-001AMS | SampType: MS    | TestCode: 8015GRO_S | Units: mg/Kg | Prep Date: 6/7/2005     | Run ID: GC-1B_050609A |          |           |             |      |          |      |
| Client ID: ZZZZZ |                | Batch ID: R7012 | TestNo: SW8015B     |              | Analysis Date: 6/9/2005 | SeqNo: 98355          |          |           |             |      |          |      |
| Analyte          |                | Result          | PQL                 | SPK value    | SPK Ref Val             | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                  |                 |                 |                     |              |                         |                       |          |           |             |      |          |      |
|------------------|-----------------|-----------------|---------------------|--------------|-------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID        | 0505058-001AMSD | SampType: MSD   | TestCode: 8015GRO_S | Units: mg/Kg | Prep Date: 6/7/2005     | Run ID: GC-1B_050609A |          |           |             |      |          |      |
| Client ID: ZZZZZ |                 | Batch ID: R7012 | TestNo: SW8015B     |              | Analysis Date: 6/9/2005 | SeqNo: 98356          |          |           |             |      |          |      |
| Analyte          |                 | Result          | PQL                 | SPK value    | SPK Ref Val             | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|            |              |           |       |           |           |             |       |                |           |             |               |          |      |
|------------|--------------|-----------|-------|-----------|-----------|-------------|-------|----------------|-----------|-------------|---------------|----------|------|
| Sample ID  | CCV1_050609A | SampType: | CCV   | TestCode: | 8015GRO_S | Units:      | mg/Kg | Prep Date:     | 6/7/2005  | Run ID:     | GC-1B_050609A |          |      |
| Client ID: | ZZZZZ        | Batch ID: | R7012 | TestNo:   | SW8015B   |             |       | Analysis Date: | 6/9/2005  | SeqNo:      | 98352         |          |      |
| Analyte    |              | Result    |       | PQL       | SPK value | SPK Ref Val | %REC  | LowLimit       | HighLimit | RPD Ref Val | %RPD          | RPDLimit | Qual |

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**CLIENT:** Souder, Miller & Associates  
**Work Order:** 0505060  
**Project:** Pure Resources Rincon 279 Pit

# ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8015GRO\_S

|                  |              |                 |                     |              |                         |                       |          |           |             |      |          |      |
|------------------|--------------|-----------------|---------------------|--------------|-------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID        | CCV2_050609A | SampType: CCV   | TestCode: 8015GRO_S | Units: mg/Kg | Prep Date: 6/7/2005     | Run ID: GC-1B_050609A |          |           |             |      |          |      |
| Client ID: ZZZZZ |              | Batch ID: R7012 | TestNo: SW8015B     |              | Analysis Date: 6/9/2005 | SeqNo: 98366          |          |           |             |      |          |      |
| Analyte          |              | Result          | PQL                 | SPK value    | SPK Ref Val             | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                  |              |                 |                     |              |                         |                       |          |           |             |      |          |      |
|------------------|--------------|-----------------|---------------------|--------------|-------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID        | CCV3_050609A | SampType: CCV   | TestCode: 8015GRO_S | Units: mg/Kg | Prep Date: 6/7/2005     | Run ID: GC-1B_050609A |          |           |             |      |          |      |
| Client ID: ZZZZZ |              | Batch ID: R7012 | TestNo: SW8015B     |              | Analysis Date: 6/9/2005 | SeqNo: 98377          |          |           |             |      |          |      |
| Analyte          |              | Result          | PQL                 | SPK value    | SPK Ref Val             | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                  |              |                 |                     |              |                         |                       |          |           |             |      |          |      |
|------------------|--------------|-----------------|---------------------|--------------|-------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID        | CCV4_050609A | SampType: CCV   | TestCode: 8015GRO_S | Units: mg/Kg | Prep Date: 6/7/2005     | Run ID: GC-1B_050609A |          |           |             |      |          |      |
| Client ID: ZZZZZ |              | Batch ID: R7012 | TestNo: SW8015B     |              | Analysis Date: 6/9/2005 | SeqNo: 98378          |          |           |             |      |          |      |
| Analyte          |              | Result          | PQL                 | SPK value    | SPK Ref Val             | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Souder, Miller & Associates  
**Work Order:** 0505060  
**Project:** Pure Resources Rincon 279 Pit

**TestCode:** BTEX\_S

|                            |           |                 |                  |              |                         |                      |           |             |      |          |      |
|----------------------------|-----------|-----------------|------------------|--------------|-------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID                  | MB_050608 | SampType: MBLK  | TestCode: BTEX_S | Units: µg/Kg | Prep Date: 6/7/2005     | Run ID: GC-1_050608A |           |             |      |          |      |
| Client ID: ZZZZ            |           | Batch ID: R7002 | TestNo: SW8021B  |              | Analysis Date: 6/8/2005 | SeqNo: 98254         |           |             |      |          |      |
| Analyte                    | Result    | PQL             | SPK value        | SPK Ref Val  | %REC                    | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene                    | ND        | 25.0            | 0                | 0            | 0                       | 0                    | 0         | 0           | 0    |          |      |
| Ethylbenzene               | ND        | 25.0            | 0                | 0            | 0                       | 0                    | 0         | 0           | 0    |          |      |
| m,p-Xylene                 | ND        | 50.0            | 0                | 0            | 0                       | 0                    | 0         | 0           | 0    |          |      |
| o-Xylene                   | ND        | 25.0            | 0                | 0            | 0                       | 0                    | 0         | 0           | 0    |          |      |
| Toluene                    | ND        | 50.0            | 0                | 0            | 0                       | 0                    | 0         | 0           | 0    |          |      |
| Surr: 1,4-Difluorobenzene  | 2288      | 0               | 2500             | 0            | 91.5                    | 75                   | 110       | 0           | 0    |          |      |
| Surr: 4-Bromochlorobenzene | 2760      | 0               | 2500             | 0            | 110                     | 40                   | 135       | 0           | 0    |          |      |
| Surr: Fluorobenzene        | 1970      | 0               | 2500             | 0            | 78.8                    | 69                   | 110       | 0           | 0    |          |      |

|                            |            |           |           |             |         |          |           |                |          |          |              |
|----------------------------|------------|-----------|-----------|-------------|---------|----------|-----------|----------------|----------|----------|--------------|
| Sample ID                  | LCS_050608 | SampType: | LCS       | TestCode:   | BTEX_S  | Units:   | µg/Kg     | Prep Date:     | 6/7/2005 | Run ID:  | GC-1_050608A |
| Client ID:                 | ZZZZZ      | Batch ID: | R7002     | TestNo:     | SW8021B |          |           | Analysis Date: | 6/8/2005 | SeqNo:   | 98250        |
| Analyte                    | Result     | PQL       | SPK value | SPK Ref Val | %REC    | LowLimit | HighLimit | RPD Ref Val    | %RPD     | RPDLimit | Qual         |
| Benzene                    | 1020       | 25.0      | 1000      | 0           | 102     | 80       | 120       | 0              | 0        |          |              |
| Ethylbenzene               | 1051       | 25.0      | 1000      | 0           | 105     | 80       | 120       | 0              | 0        |          |              |
| m,p-Xylene                 | 2082       | 50.0      | 2000      | 0           | 104     | 80       | 120       | 0              | 0        |          |              |
| o-Xylene                   | 1029       | 25.0      | 1000      | 0           | 103     | 80       | 120       | 0              | 0        |          |              |
| Toluene                    | 1052       | 50.0      | 1000      | 0           | 105     | 80       | 120       | 0              | 0        |          |              |
| Surr: 1,4-Difluorobenzene  | 2215       | 0         | 2500      | 0           | 88.6    | 75       | 115       | 0              | 0        |          |              |
| Surr: 4-Bromochlorobenzene | 2038       | 0         | 2500      | 0           | 81.5    | 40       | 115       | 0              | 0        |          |              |
| Surr: Fluorobenzene        | 1917       | 0         | 2500      | 0           | 76.7    | 69       | 115       | 0              | 0        |          |              |

|                  |                |                 |                  |              |                         |                      |           |             |      |          |      |
|------------------|----------------|-----------------|------------------|--------------|-------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID        | 0505063-001AMS | SampType: MS    | TestCode: BTEX_S | Units: µg/Kg | Prep Date: 6/7/2005     | Run ID: GC-1_050608A |           |             |      |          |      |
| Client ID: ZZZZZ |                | Batch ID: R7002 | TestNo: SW8021B  |              | Analysis Date: 6/8/2005 | SeqNo: 98252         |           |             |      |          |      |
| Analyte          | Result         | PQL             | SPK value        | SPK Ref Val  | %REC                    | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene          | 1088           | 25.0            | 1000             | 0            | 109                     | 80                   | 115       | 0           | 0    |          |      |
| Ethylbenzene     | 1108           | 25.0            | 1000             | 0            | 111                     | 84                   | 115       | 0           | 0    |          |      |
| m,p-Xylene       | 2195           | 50.0            | 2000             | 0            | 110                     | 82                   | 115       | 0           | 0    |          |      |
| o-Xylene         | 1084           | 25.0            | 1000             | 0            | 108                     | 82                   | 115       | 0           | 0    |          |      |
| Toluene          | 1111           | 50.0            | 1000             | 0            | 111                     | 77                   | 115       | 0           | 0    |          |      |

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits

CLIENT: Souder, Miller & Associates  
Work Order: 0505060  
Project: Pure Resources Rincon 279 Pit

# ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX\_S

|                  |                |                 |                  |              |                         |                      |           |             |      |          |      |
|------------------|----------------|-----------------|------------------|--------------|-------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID        | 0505063-001AMS | SampleType: MS  | TestCode: BTEX_S | Units: µg/Kg | Prep Date: 6/7/2005     | Run ID: GC-1_050608A |           |             |      |          |      |
| Client ID: ZZZZZ |                | Batch ID: R7002 | TestNo: SW8021B  |              | Analysis Date: 6/8/2005 | SeqNo: 98252         |           |             |      |          |      |
| Analyte          | Result         | PQL             | SPK value        | SPK Ref Val  | %REC                    | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                            |      |   |      |   |      |    |     |   |   |  |  |
|----------------------------|------|---|------|---|------|----|-----|---|---|--|--|
| Surr: 1,4-Difluorobenzene  | 2235 | 0 | 2500 | 0 | 89.4 | 75 | 110 | 0 | 0 |  |  |
| Surr: 4-Bromochlorobenzene | 2154 | 0 | 2500 | 0 | 86.2 | 40 | 135 | 0 | 0 |  |  |
| Surr: Fluorobenzene        | 1939 | 0 | 2500 | 0 | 77.6 | 69 | 110 | 0 | 0 |  |  |

|                  |                 |                  |                  |              |                         |                      |           |             |      |          |      |
|------------------|-----------------|------------------|------------------|--------------|-------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID        | 0505063-001AMSD | Sample Type: MSD | TestCode: BTEX_S | Units: µg/Kg | Prep Date: 6/7/2005     | Run ID: GC-1_050608A |           |             |      |          |      |
| Client ID: ZZZZZ |                 | Batch ID: R7002  | TestNo: SW8021B  |              | Analysis Date: 6/8/2005 | SeqNo: 98253         |           |             |      |          |      |
| Analyte          | Result          | PQL              | SPK value        | SPK Ref Val  | %REC                    | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                            |      |      |      |   |      |    |     |      |      |    |  |
|----------------------------|------|------|------|---|------|----|-----|------|------|----|--|
| Benzene                    | 1061 | 25.0 | 1000 | 0 | 106  | 80 | 115 | 1088 | 2.54 | 14 |  |
| Ethylbenzene               | 1081 | 25.0 | 1000 | 0 | 108  | 85 | 115 | 1108 | 2.44 | 16 |  |
| m,p-Xylene                 | 2138 | 50.0 | 2000 | 0 | 107  | 83 | 130 | 2195 | 2.64 | 15 |  |
| o-Xylene                   | 1059 | 25.0 | 1000 | 0 | 106  | 84 | 115 | 1084 | 2.30 | 13 |  |
| Toluene                    | 1081 | 50.0 | 1000 | 0 | 108  | 84 | 115 | 1111 | 2.74 | 15 |  |
| Surr: 1,4-Difluorobenzene  | 2226 | 0    | 2500 | 0 | 89   | 75 | 110 | 0    | 0    | 0  |  |
| Surr: 4-Bromochlorobenzene | 2104 | 0    | 2500 | 0 | 84.2 | 40 | 135 | 0    | 0    | 0  |  |
| Surr: Fluorobenzene        | 1940 | 0    | 2500 | 0 | 77.6 | 69 | 110 | 0    | 0    | 0  |  |

|            |             |                 |                  |              |                         |                      |           |             |      |          |      |
|------------|-------------|-----------------|------------------|--------------|-------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID  | CCV1_050608 | SampleType: CCV | TestCode: BTEX_S | Units: µg/Kg | Prep Date: 6/7/2005     | Run ID: GC-1_050608A |           |             |      |          |      |
| Client ID: | ZZZZZ       | Batch ID: R7002 | TestNo: SW8021B  |              | Analysis Date: 6/8/2005 | SeqNo: 98246         |           |             |      |          |      |
| Analyte    | Result      | PQL             | SPK value        | SPK Ref Val  | %REC                    | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                            |       |      |     |   |      |    |     |   |   |  |  |
|----------------------------|-------|------|-----|---|------|----|-----|---|---|--|--|
| Benzene                    | 59.3  | 1.00 | 60  | 0 | 98.8 | 85 | 115 | 0 | 0 |  |  |
| Ethylbenzene               | 59.87 | 1.00 | 60  | 0 | 99.8 | 85 | 115 | 0 | 0 |  |  |
| m,p-Xylene                 | 118.4 | 2.00 | 120 | 0 | 98.7 | 85 | 115 | 0 | 0 |  |  |
| o-Xylene                   | 59.55 | 1.00 | 60  | 0 | 99.2 | 85 | 115 | 0 | 0 |  |  |
| Toluene                    | 59.86 | 2.00 | 60  | 0 | 99.8 | 85 | 115 | 0 | 0 |  |  |
| Surr: 1,4-Difluorobenzene  | 89.6  | 0    | 100 | 0 | 89.6 | 75 | 110 | 0 | 0 |  |  |
| Surr: 4-Bromochlorobenzene | 100.4 | 0    | 100 | 0 | 100  | 40 | 135 | 0 | 0 |  |  |
| Surr: Fluorobenzene        | 77.84 | 0    | 100 | 0 | 77.8 | 69 | 119 | 0 | 0 |  |  |

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

# ANALYTICAL QC SUMMARY REPORT

CLIENT: Souder, Miller & Associates

Work Order: 0505060

Project: Pure Resources Rincon 279 Pit

TestCode: BTEX\_S

|                            |             |                 |                  |              |                         |                      |           |             |      |          |      |
|----------------------------|-------------|-----------------|------------------|--------------|-------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID                  | CCV2_050608 | SampType: CCV   | TestCode: BTEX_S | Units: µg/Kg | Prep Date: 6/7/2005     | Run ID: GC-1_050608A |           |             |      |          |      |
| Client ID: ZZZZZ           |             | Batch ID: R7002 | TestNo: SW8021B  |              | Analysis Date: 6/8/2005 | SeqNo: 98247         |           |             |      |          |      |
| Analyte                    | Result      | PQL             | SPK value        | SPK Ref Val  | %REC                    | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene                    | 41.17       | 1.00            | 40               | 0            | 103                     | 85                   | 115       | 0           | 0    |          |      |
| Ethylbenzene               | 41.34       | 1.00            | 40               | 0            | 103                     | 85                   | 115       | 0           | 0    |          |      |
| m,p-Xylene                 | 80.69       | 2.00            | 80               | 0            | 101                     | 85                   | 115       | 0           | 0    |          |      |
| o-Xylene                   | 40.62       | 1.00            | 40               | 0            | 102                     | 85                   | 115       | 0           | 0    |          |      |
| Toluene                    | 41.51       | 2.00            | 40               | 0            | 104                     | 85                   | 115       | 0           | 0    |          |      |
| Surr: 1,4-Difluorobenzene  | 90.74       | 0               | 100              | 0            | 90.7                    | 75                   | 110       | 0           | 0    |          |      |
| Surr: 4-Bromochlorobenzene | 88.02       | 0               | 100              | 0            | 88                      | 40                   | 135       | 0           | 0    |          |      |
| Surr: Fluorobenzene        | 78.8        | 0               | 100              | 0            | 78.8                    | 69                   | 119       | 0           | 0    |          |      |

|                            |             |                 |                  |              |                         |                      |           |             |      |          |      |
|----------------------------|-------------|-----------------|------------------|--------------|-------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID                  | CCV3_050608 | SampType: CCV   | TestCode: BTEX_S | Units: µg/Kg | Prep Date: 6/7/2005     | Run ID: GC-1_050608A |           |             |      |          |      |
| Client ID: ZZZZZ           |             | Batch ID: R7002 | TestNo: SW8021B  |              | Analysis Date: 6/8/2005 | SeqNo: 98248         |           |             |      |          |      |
| Analyte                    | Result      | PQL             | SPK value        | SPK Ref Val  | %REC                    | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene                    | 59.63       | 1.00            | 60               | 0            | 99.4                    | 85                   | 115       | 0           | 0    |          |      |
| Ethylbenzene               | 58.96       | 1.00            | 60               | 0            | 98.3                    | 85                   | 115       | 0           | 0    |          |      |
| m,p-Xylene                 | 114.7       | 2.00            | 120              | 0            | 95.6                    | 85                   | 115       | 0           | 0    |          |      |
| o-Xylene                   | 58.02       | 1.00            | 60               | 0            | 96.7                    | 85                   | 115       | 0           | 0    |          |      |
| Toluene                    | 60.59       | 2.00            | 60               | 0            | 101                     | 85                   | 115       | 0           | 0    |          |      |
| Surr: 1,4-Difluorobenzene  | 90.13       | 0               | 100              | 0            | 90.1                    | 75                   | 110       | 0           | 0    |          |      |
| Surr: 4-Bromochlorobenzene | 76.74       | 0               | 100              | 0            | 76.7                    | 40                   | 135       | 0           | 0    |          |      |
| Surr: Fluorobenzene        | 78.34       | 0               | 100              | 0            | 78.3                    | 69                   | 119       | 0           | 0    |          |      |

|                  |             |                 |                  |              |                         |                      |           |             |      |          |      |
|------------------|-------------|-----------------|------------------|--------------|-------------------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID        | CCV4_050608 | SampType: CCV   | TestCode: BTEX_S | Units: µg/Kg | Prep Date: 6/7/2005     | Run ID: GC-1_050608A |           |             |      |          |      |
| Client ID: ZZZZZ |             | Batch ID: R7002 | TestNo: SW8021B  |              | Analysis Date: 6/8/2005 | SeqNo: 98249         |           |             |      |          |      |
| Analyte          | Result      | PQL             | SPK value        | SPK Ref Val  | %REC                    | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene          | 63.33       | 1.00            | 60               | 0            | 106                     | 85                   | 115       | 0           | 0    |          |      |
| Ethylbenzene     | 63.59       | 1.00            | 60               | 0            | 106                     | 85                   | 115       | 0           | 0    |          |      |
| m,p-Xylene       | 125.5       | 2.00            | 120              | 0            | 105                     | 85                   | 115       | 0           | 0    |          |      |
| o-Xylene         | 62.09       | 1.00            | 60               | 0            | 103                     | 85                   | 115       | 0           | 0    |          |      |
| Toluene          | 62.88       | 2.00            | 60               | 0            | 105                     | 85                   | 115       | 0           | 0    |          |      |

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**CLIENT:** Souder, Miller & Associates  
**Work Order:** 0505060  
**Project:** Pure Resources Rincon 279 Pit

**ANALYTICAL QC SUMMARY REPORT**  
**TestCode:** BTEX\_S

|                            |             |           |       |           |           |             |       |                |           |             |              |          |      |
|----------------------------|-------------|-----------|-------|-----------|-----------|-------------|-------|----------------|-----------|-------------|--------------|----------|------|
| Sample ID                  | CCV4_050608 | SampType: | CCV   | TestCode: | BTEX_S    | Units:      | µg/Kg | Prep Date:     | 6/7/2005  | Run ID:     | GC-1_050608A |          |      |
| Client ID:                 | ZZZZ        | Batch ID: | R7002 | TestNo:   | SW8021B   |             |       | Analysis Date: | 6/8/2005  | SeqNo:      | 98249        |          |      |
| Analyte                    |             | Result    |       | PQL       | SPK value | SPK Ref Val | %REC  | LowLimit       | HighLimit | RPD Ref Val | %RPD         | RPDLimit | Qual |
| Surr: 1,4-Difluorobenzene  |             | 90.21     |       | 0         | 100       | 0           | 90.2  | 75             | 110       | 0           | 0            |          |      |
| Surr: 4-Bromochlorobenzene |             | 122.8     |       | 0         | 100       | 0           | 123   | 40             | 135       | 0           | 0            |          |      |
| Surr: Fluorobenzene        |             | 79.11     |       | 0         | 100       | 0           | 79.1  | 69             | 119       | 0           | 0            |          |      |



# CHAIN OF CUSTODY RECORD

4780

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499  
Phone: (505) 327-1072 • Fax: (505) 327-1496

Date 5/27/05

Page 1 of 1

|                                                                                       |             |                                                |             |
|---------------------------------------------------------------------------------------|-------------|------------------------------------------------|-------------|
| Report to: <u>J. Haffstrom</u>                                                        |             | PO No.: <u>5115310</u>                         |             |
| Company: <u>SMA</u>                                                                   |             | Name:                                          |             |
| Address: <u>612 E. MURRAY DR</u>                                                      |             | Company:                                       |             |
| City: <u>FARMINGTON, NM</u>                                                           |             | Address:                                       |             |
| Phone:                                                                                |             | City:                                          |             |
| Fax:                                                                                  |             | Analysis Requested                             |             |
| Turnaround Time:<br>10 days (normal) <u>✓</u><br>24-48 hours (100%)<br>3-5 days (50%) |             | Subcontract<br>Yes <u>   </u><br>No <u>   </u> |             |
| Sample Integrity<br>Intact <u>   </u><br>On Ice <u>   </u> <u>40C</u>                 |             | SEND INVOICE TO:                               |             |
| Email:                                                                                |             | NUMBER OF CONTAINERS:                          |             |
| Sampling Location:<br><u>Pure Resources Rincon 279 PIT</u>                            |             |                                                |             |
| Sample Identification                                                                 |             | Lab ID                                         |             |
| Date                                                                                  | Time        | Matrix                                         | Pres.       |
| <u>5/27/05</u>                                                                        | <u>1015</u> | <u>SOIL</u>                                    | <u>COOL</u> |
| <u>↓</u>                                                                              | <u>1017</u> | <u>↓</u>                                       | <u>↓</u>    |
| <u>Rincon 279 SW</u>                                                                  |             | <u>05050100-001A</u>                           |             |
| <u>↓ ↓ CP</u>                                                                         |             | <u>-002A</u>                                   |             |
| Relinquished by: <u>[Signature]</u>                                                   |             | Received by: <u>[Signature]</u>                |             |
| Date/Time: <u>5/27/05 1540</u>                                                        |             | Date/Time: <u>5.27.05 15:40</u>                |             |
| Relinquished by:                                                                      |             | Received by:                                   |             |
| Date/Time:                                                                            |             | Date/Time:                                     |             |
| Relinquished by:                                                                      |             | Received by:                                   |             |
| Date/Time:                                                                            |             | Date/Time:                                     |             |
| Comments:                                                                             |             |                                                |             |

iiná bá

### Sample Receipt Checklist

Client Name: **SMA1005**

Date and Time Received: **5/27/2005 3:40:00 PM**

Work Order Number: **0505060**

Received by: **MS**

Checklist completed by:

Signature

*J Moore*

Date

*5/31/05*

Reviewed by:

Initials

*JR*

Date

*6/6/05*

Matrix:

Carrier name: John Hagstrom

|                                                         |                                                            |                                        |                                                 |
|---------------------------------------------------------|------------------------------------------------------------|----------------------------------------|-------------------------------------------------|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>            | Not Present <input type="checkbox"/>            |
| Custody seals intact on shipping container/cooler?      | Yes <input type="checkbox"/>                               | No <input type="checkbox"/>            | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles?                 | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>            | Not Present <input type="checkbox"/>            |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>            |                                                 |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>            |                                                 |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>            |                                                 |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>            |                                                 |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>            |                                                 |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>            |                                                 |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>            |                                                 |
| Container/Temp Blank temperature in compliance?         | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>            |                                                 |
| Water - VOA vials have zero headspace?                  | No VOA vials submitted <input checked="" type="checkbox"/> | Yes <input type="checkbox"/>           | No <input type="checkbox"/>                     |
| Water - pH acceptable upon receipt?                     | Yes <input type="checkbox"/>                               | No <input checked="" type="checkbox"/> |                                                 |

Adjusted? \_\_\_\_\_ Checked by: \_\_\_\_\_

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted: \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments: \_\_\_\_\_

Corrective Action: \_\_\_\_\_