

SITE INFORMATION

Report Type: Closure Report

General Site Information:

| | | | | | |
|------------------------------------|---|--------|------|--------------|--|
| Site: | SRO State Unit Com #2 | | | | |
| Company: | COG Operating LLC | | | | |
| Section, Township and Range | Unit P | Sec 32 | T25S | R28E | |
| Lease Number: | API-30-015-37141 | | | | |
| County: | Eddy County | | | | |
| GPS: | 32.08034° N | | | 104.10180° W | |
| Surface Owner: | State | | | | |
| Mineral Owner: | | | | | |
| Directions: | From Hwy 285 and CR-274 (White City Road) travel west on CR-274 for 2.0 miles, turn right (north) and travel for 1.1 miles to site. | | | | |
| | | | | | |
| | | | | | |

Release Data:

| | | |
|---------------------------------|------------------------|----------------------|
| Date Released: | 3/15/2012 | RECEIVED |
| Type Release: | Produced Fluid | |
| Source of Contamination: | Heater Treater | NOV 01 2012 |
| Fluid Released: | 50 bbls oil 80 bbls pw | |
| Fluids Recovered: | 10 bbls oil 30 bbls pw | NMOCD ARTESIA |

Official Communication:

| | | |
|----------------------|-----------------------------|----------------------------|
| Name: | Pat Ellis | Ike Tavarez |
| Company: | COG Operating, LLC | Tetra Tech |
| Address: | 550 W. Texas Ave. Ste. 1300 | 1910 N. Big Spring |
| P.O. Box | | |
| City: | Midland Texas, 79701 | Midland, Texas |
| Phone number: | (432) 686-3023 | (432) 682-4559 |
| Fax: | (432) 684-7137 | |
| Email: | pellis@conchoresources.com | ike.tavarez@tetrattech.com |

Ranking Criteria:

| Depth to Groundwater: | Ranking Score | Site Data |
|---|----------------------|------------------|
| <50 ft | 20 | |
| 50-99 ft | 10 | 10 |
| >100 ft. | 0 | |
| Wellhead Protection: | | |
| | Ranking Score | Site Data |
| Water Source <1,000 ft., Private <200 ft. | 20 | |
| Water Source >1,000 ft., Private >200 ft. | 0 | 0 |
| Surface Body of Water: | | |
| | Ranking Score | Site Data |
| <200 ft. | 20 | |
| 200 ft - 1,000 ft. | 10 | |
| >1,000 ft. | 0 | 0 |
| Total Ranking Score: | | 10 |

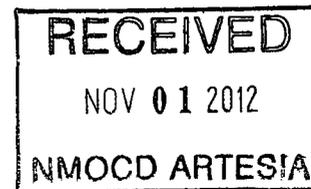
| Acceptable Soil RRAL (mg/kg) | | |
|-------------------------------------|-------------------|------------|
| Benzene | Total BTEX | TPH |
| 10 | 50 | 1,000 |



TETRA TECH

October 18, 2012

Mr. Mike Bratcher
Environmental Engineer Specialist
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210



Re: Closure Report for the COG Operating LLC., SRO State Unit Com #2, Unit P, Section 32, Township 25 South, Range 28 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from the SRO State Unit Com #2, Unit P, Section 32, Township 25 South, Range 28 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.08031°, W 104.10168°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico Oil Conservation Division (NMOCD) Form C-141 Initial Report, the leak was discovered on March 15, 2012, and released approximately 50 barrels of oil and 80 barrels of produce water due to an over-pressured heater treater. Approximately 10 barrels of oil and 30 barrels of produced waster were recovered from the spill area. The spill initiated at the heater treater and impacted an area approximately 45' x 112' inside the facility firewalls. The spill breached the firewall and migrated north impacting an area measuring approximately 50' x 60' in the pasture. The initial Form C-141 is enclosed in Appendix A.

Tetra Tech

1919 North Big Spring, Midland, TX 79705

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com



Groundwater

No water wells were reported in Section 32. One well is listed in Section 28 with a reported depth to groundwater of 90' below surface. According to the NMOCD groundwater map, the average depth to groundwater is approximately 50' below surface. The groundwater data is shown in Appendix B.

Regulatory

A risk-based evaluation was performed for the Site in accordance with the NMOCD Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 1,000 mg/kg.

Soil Assessment

On April 25, 2012, Tetra Tech personnel inspected and sampled the spill area. Thirteen (13) auger holes (AH-1 through AH-13) were installed using a stainless steel hand auger to assess the impacted soils. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA method 8021B and chloride by EPA method 300.0. The sampling results are summarized in Table 1 and 2. The auger hole locations are shown on Figure 3. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C.

Referring to Table 1, all of the samples at 0-1' exceeded the RRAL for TPH, except for the area of AH-1. The TPH concentrations exceeding the RRAL ranged from 1,958 mg/kg to 15,738 mg/kg. In addition, the area of AH-8 at 0-1' exceeded the RRAL for total BTEX with a concentration of 65.8 mg/kg.



In the areas of auger holes (AH-1, AH-2, AH-3, AH-4, AH-5, AH-6, AH-8 and AH-9) detected elevated chlorides and were not vertically defined. Auger holes (AH-11 and AH-13) were vertically defined and showed a significant decline at 2.0' below surface. The areas of AH-7, AH-10 and AH-12 did not show a significant impact to the soils, with chloride concentrations at 0-1' of 685 mg/kg and 403 mg/kg, respectively.

On June 13, 2012, Tetra Tech personnel supervised the installation of five (5) trenches (T-1 through T-5) to define the vertical extents of the impacted soils. The trench locations are shown on Figure 3. Soil samples were collected to a depth of 12.0' below grade surface. Selected samples were analyzed for TPH and chlorides. The results of the sampling are summarized in Table 2.

Referring to Table 2, T-3 exceeded the RRAL for TPH of 4,500 mg/kg (0-1'), but declined below the RRAL at 2.0' below surface. The trenches did not show a significant chloride impact to the soils. The area of T-4 did show a deeper impact to the soil, which declined to 362 mg/kg at 12.0' below surface.

Remediation and Conclusion

On January 2012, Tetra Tech personnel supervised the excavation of the soils. The excavated areas and depths are highlighted in Table 1 and shown on Figure 4. In order to remove the hydrocarbon and elevated chloride concentrations, the proposed excavation depths ranged from 1.0' to 4.0' below surface. At T-4 (AH-5), the impacted area was excavated to a depth of 4.0' below surface and capped the excavation bottom with a 40 mil liner. The remaining areas inside the facility dike were excavated to a depth of 1.0' below surface. The impacted areas north, outside the facility dike, were excavated to a depth of 2.0' below surface. Approximately 160 yards³ were removed and disposed of at R360.



TETRA TECH

Based on the remediation activities performed at this location, COG request closure for this site. The C-141 (Final) is included in Appendix A. If you have any questions or comments concerning the assessment or the remediation activities performed at the site, please call me at (432) 682-4559.

Respectfully submitted,
TETRA TECH

Ike Tavares, PG
Senior Project Manager

cc: Pat Ellis – COG

Figures

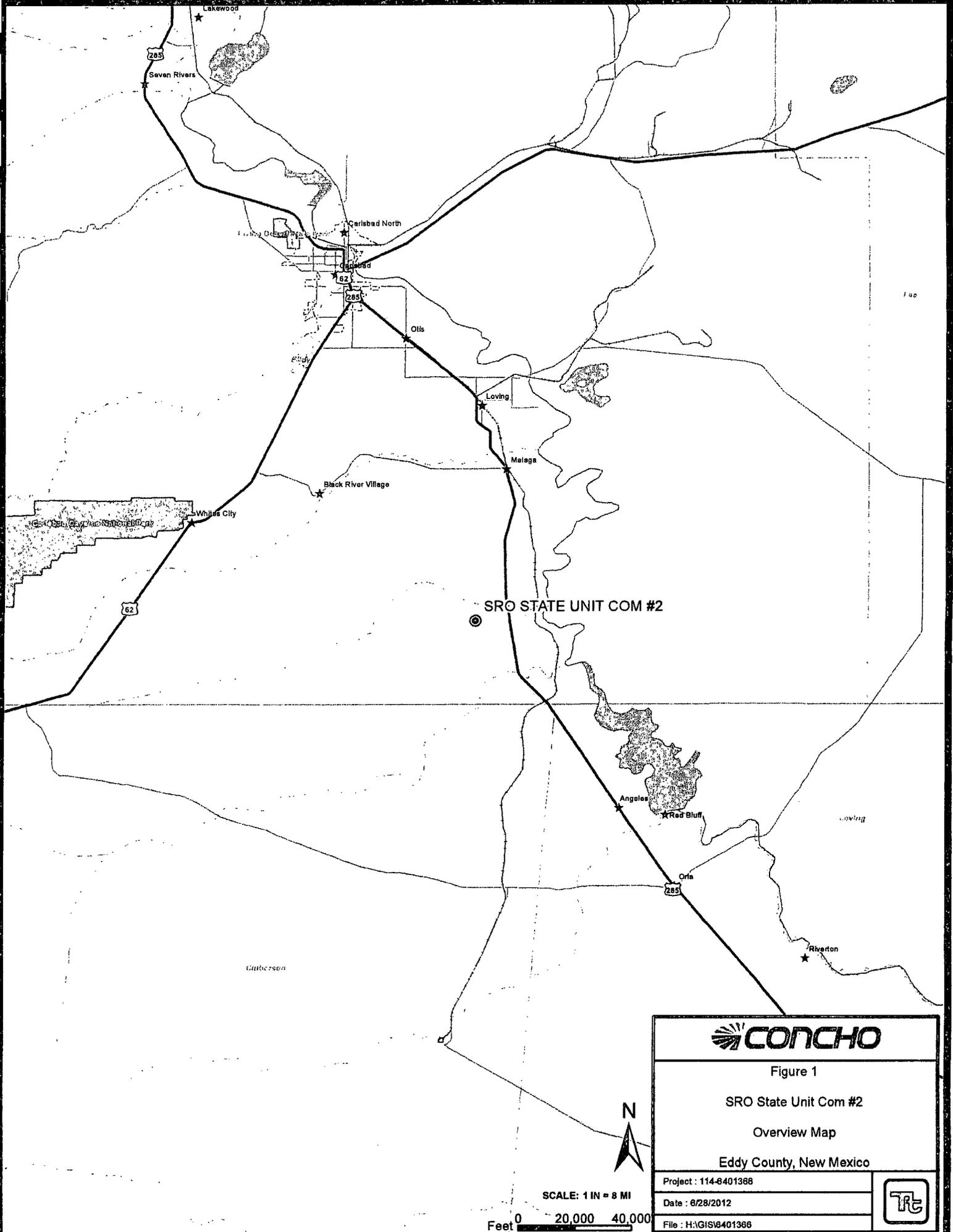


Figure 1

SRO State Unit Com #2

Overview Map

Eddy County, New Mexico

| |
|-----------------------|
| Project : 114-6401368 |
| Date : 6/28/2012 |
| File : H:\GIS\6401368 |



SCALE: 1 IN = 8 MI

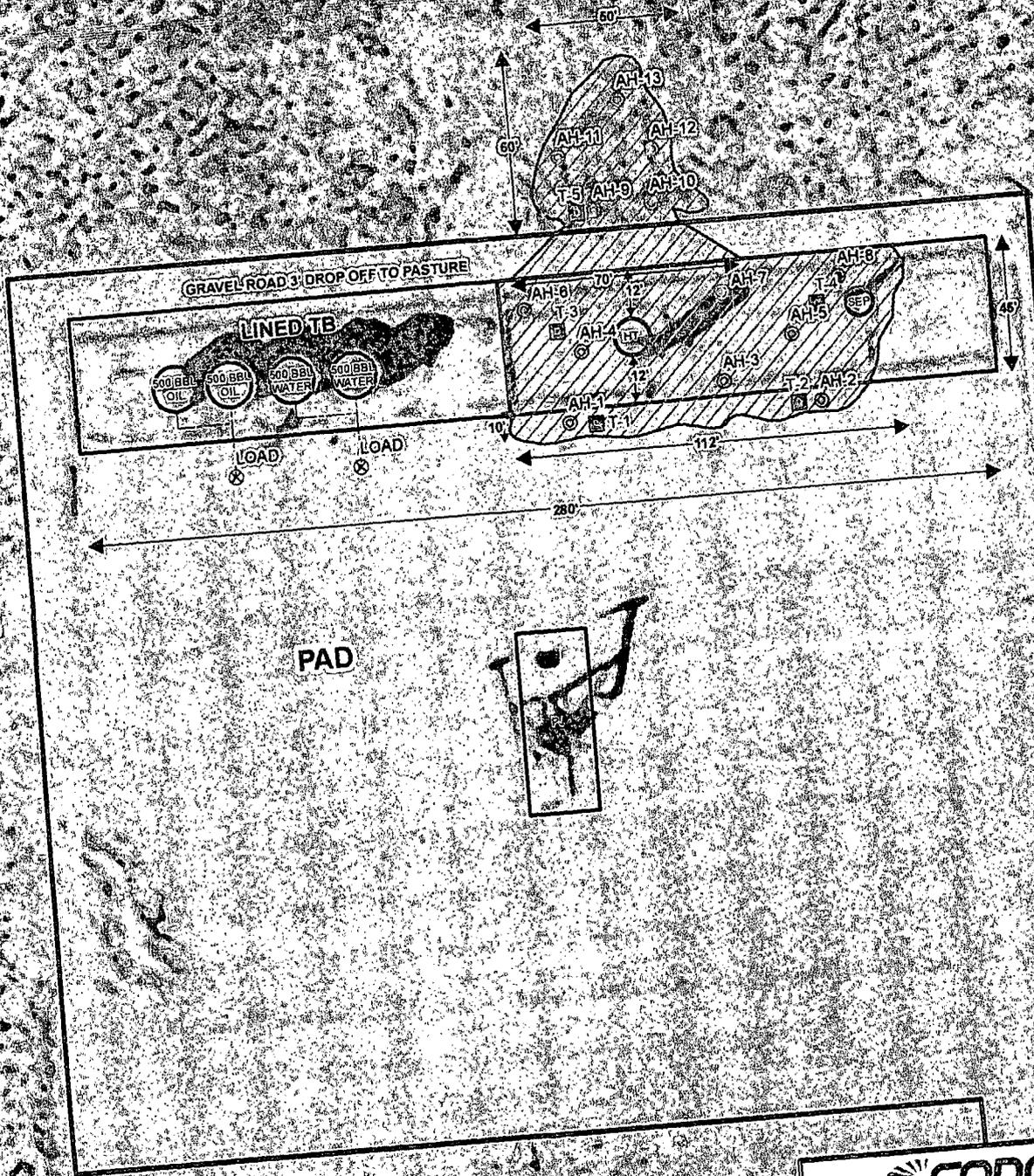


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| EXPLANATION | |
|-------------|-----------------------------|
| ⊙ | AUGER HOLE SAMPLE LOCATIONS |
| ⊠ | PROPOSED TRENCH LOCATIONS |
| ▨ | SPILL AREA |

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Figure 3
 SRO State Unit Com #2
 Spill Assessment Map
 Eddy County, New Mexico

Project: 114-6401386
 Date: 8/28/2012
 File: H:\GIS\6401386

Scale: 1 IN = 60 FEET
 Feet 0 20 40

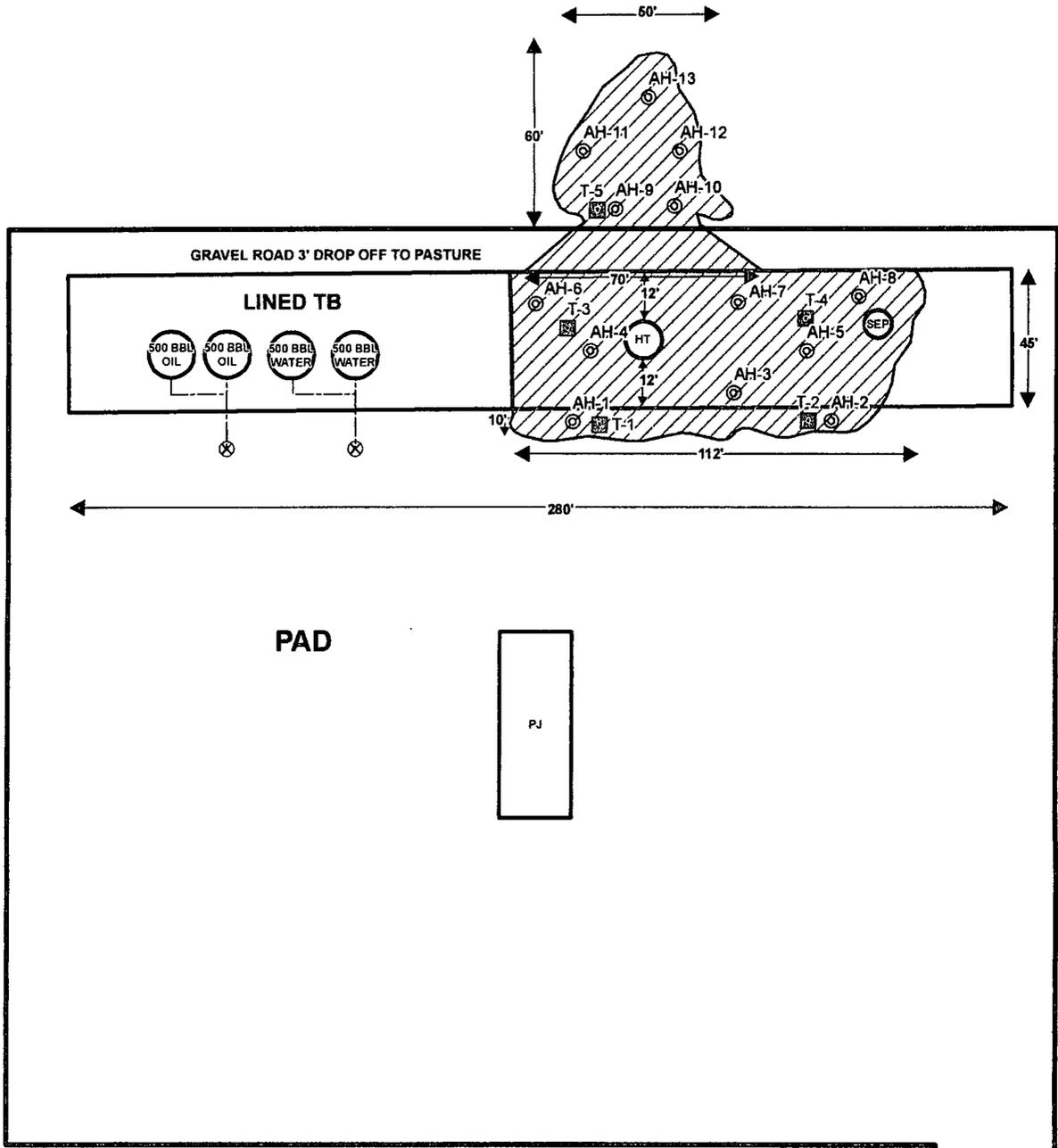
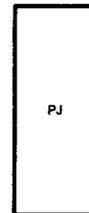
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EXPLANATION

- ⊙ AUGER HOLE SAMPLE LOCATIONS
- ⊠ TRENCHED LOCATIONS
- ▨ SPILL AREA



SCALE: 1 IN = 60 FEET
Feet 0 20 40



Figure 3

SRO State Unit Com #2

Spill Assessment Map

Eddy County, New Mexico

Project : 114-6401386

Date : 6/28/2012

File : H:\GIS\6401386

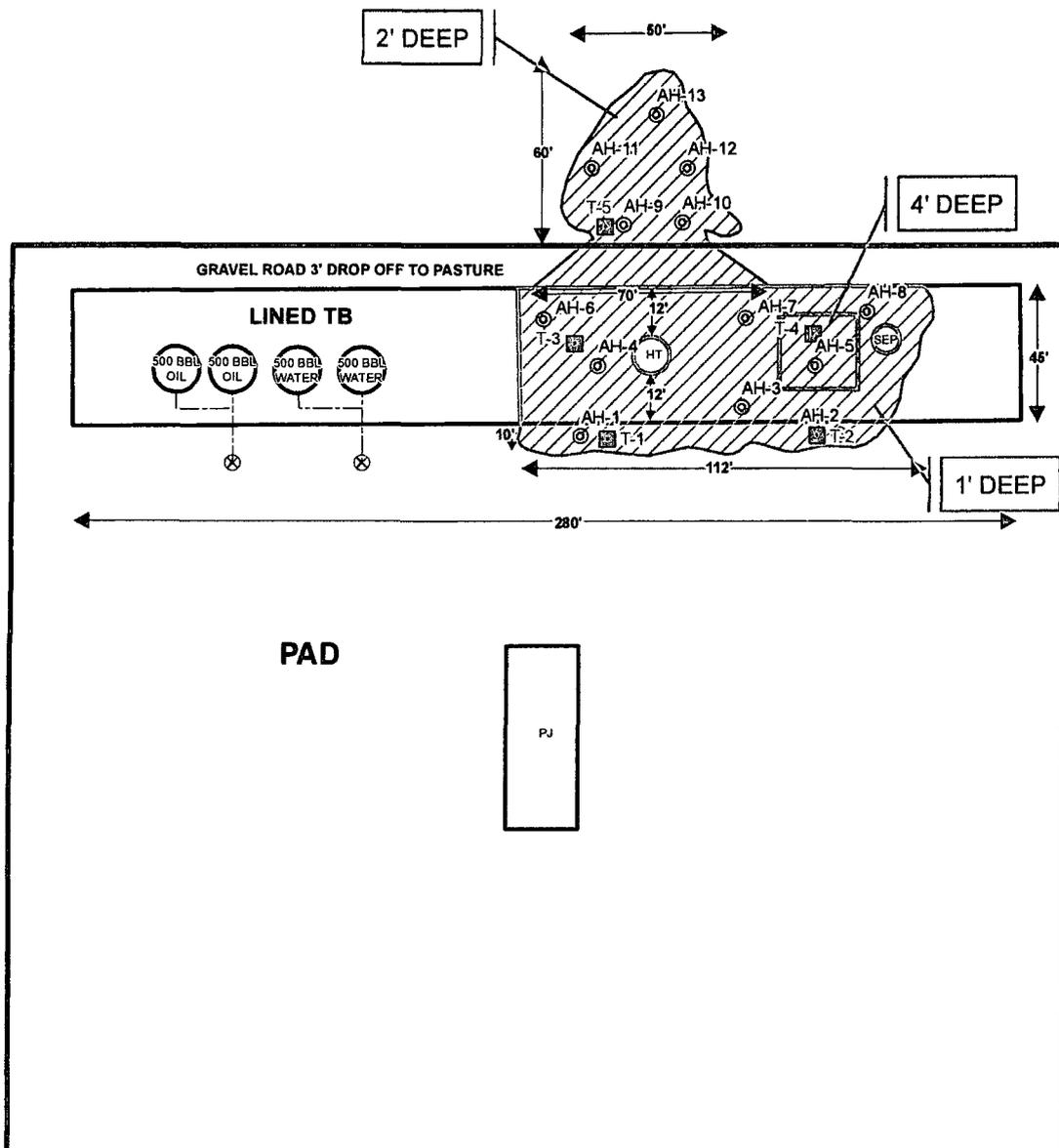


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| EXPLANATION | |
|-------------|-----------------------------|
| ⊙ | AUGER HOLE SAMPLE LOCATIONS |
| ⊠ | TRENCHED LOCATIONS |
| ▭ | INSTALLED LINER |
| ▨ | EXCAVATED AREA |



SCALE: 1 IN = 63 FEET
 Feet 0 20 40

| | |
|------------------------------|--|
| | |
| Figure 4 | |
| SRO State Unit Com #2 | |
| Excavated Areas & Depths Map | |
| Eddy County, New Mexico | |
| Project : 114-6401366 | |
| Date : 6/28/2012 | |
| File : H:\GIS\6401366 | |

Tables

Table 1
COG Operating LLC.
SRO State Unit Commingle #2
Eddy County, New Mexico

| Sample ID | Sample Date | Sample Depth (ft) | Soil Status | | TPH (mg/kg) | | | Benzene (mg/kg) | Toluene (mg/kg) | Ethlybenzene (mg/kg) | Xylene (mg/kg) | Total BTEX (mg/kg) | Chloride (mg/kg) |
|-----------|-------------|-------------------|-------------|---------|-------------|--------|--------|-----------------|-----------------|----------------------|----------------|--------------------|------------------|
| | | | In-Situ | Removed | GRO | DRO | Total | | | | | | |
| AH-1 | 4/23/2012 | 0-0.5 | | X | <2.00 | 292 | 292 | | | | | | 3,570 |
| AH-2 | 4/23/2012 | 0-0.5 | | X | 51.1 | 2,990 | 3,501 | | | | | | 6,080 |
| AH-3 | 4/23/2012 | 0-0.5 | | X | 438 | 15,300 | 15,738 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 13,000 |
| AH-4 | 4/23/2012 | 0-0.5 | | X | 752 | 8,940 | 9,692 | 0.538 | 2.08 | 1.42 | 6.91 | 10.9 | 3,460 |
| AH-5 | 4/23/2012 | 0-0.5 | | X | 331 | 3,640 | 3,971 | | | | | | 1,790 |
| AH-6 | 4/23/2012 | 0-0.5 | | X | 335 | 2,360 | 2,695 | | | | | | 3,020 |
| AH-7 | 4/23/2012 | 0-0.5 | | X | 444 | 4,600 | 5,044 | <0.100 | 0.390 | 0.581 | 2.08 | 3.05 | 685 |
| AH-8 | 4/23/2012 | 0-0.5 | | X | 2,460 | 9,000 | 11,460 | 2.38 | 12.8 | 9.58 | 41.0 | 65.8 | 1,230 |
| AH-9 | 4/23/2012 | 0-0.5 | | X | 99.1 | 4,470 | 4,569 | <0.200 | <0.200 | <0.200 | <0.200 | <0.200 | 12,000 |
| AH-10 | 4/23/2012 | 0-0.5 | | X | 58.4 | 1,900 | 1,958 | | | | | | 403 |

Table 1
COG Operating LLC.
SRO State Unit Commingle #2
Eddy County, New Mexico

| Sample ID | Sample Date | Sample Depth (ft) | Soil Status | | TPH (mg/kg) | | | Benzene (mg/kg) | Toluene (mg/kg) | Ethlybenzene (mg/kg) | Xylene (mg/kg) | Total BTEX (mg/kg) | Chloride (mg/kg) |
|-----------|-------------|-------------------|-------------|---------|-------------|-------|-------|-----------------|-----------------|----------------------|----------------|--------------------|------------------|
| | | | In-Situ | Removed | GRO | DRO | Total | | | | | | |
| AH-11 | 4/23/2012 | 0-1 | | X | <2.00 | <50.0 | <50.0 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | 5,640 |
| | " | 1-1.5 | | X | | | | | | | | | 3,090 |
| | " | 2-2.5 | X | | - | - | - | - | - | - | - | - | 114 |
| | " | 3-3.5 | X | | - | - | - | - | - | - | - | - | 69.5 |
| | " | 4-4.5 | X | | - | - | - | - | - | - | - | - | 179 |
| | " | 5-5.5 | X | | - | - | - | - | - | - | - | - | 39.7 |
| AH-12 | 4/23/2012 | 0-1 | | X | <2.00 | 133 | 133 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | 169 |
| | " | 1-1.5 | | X | <2.00 | 120 | 120 | | | | | | <20.0 |
| | " | 2-2.5 | X | | <2.00 | <50.0 | <50.0 | - | - | - | - | - | <20.0 |
| | " | 3-3.5 | X | | - | - | - | - | - | - | - | - | <20.0 |
| | " | 4-4.5 | X | | - | - | - | - | - | - | - | - | 104 |
| | " | 5-5.5 | X | | - | - | - | - | - | - | - | - | 104 |
| AH-13 | 4/23/2012 | 0-1 | | X | 114 | <50.0 | 114 | <0.0200 | 0.114 | 0.172 | 0.662 | 0.948 | 6,790 |
| | " | 1-1.5 | | X | 3.50 | <50.0 | 3.50 | | | | | | 5,930 |
| | " | 2-2.5 | X | | - | - | - | - | - | - | - | - | 64.6 |
| | " | 3-3.5 | X | | - | - | - | - | - | - | - | - | 114 |

BEB Below Excavation Bottom

(-) Not Analyzed

 Excavated Depths

Table 2
COG Operating LLC.
SRO State Unit Commingle #2
Eddy County, New Mexico

| Sample ID | Sample Date | Sample Depth (ft) | Soil Status | | TPH (mg/kg) | | | Chloride (mg/kg) |
|---|-------------|-------------------|-------------|---------|-------------|-------|-------|------------------|
| | | | In-Situ | Removed | GRO | DRO | Total | |
| Trench-1 (Area of AH-1) | 6/13/2012 | surface | | X | <2.00 | 849 | 849 | 744 |
| | " | 2 | X | | <2.00 | <50.0 | <50.0 | 208 |
| | " | 4 | X | | - | - | - | <20.0 |
| | " | 6 | X | | - | - | - | 69.4 |
| | " | 8 | X | | - | - | - | <20.0 |
| | " | 10 | X | | - | - | - | 41.6 |
| | " | 12 | X | | - | - | - | <20.0 |
| Trench-2 (Area of AH-2) | 6/13/2012 | surface | | X | <2.00 | <50.0 | <50.0 | 83.2 |
| | " | 2 | X | | - | - | - | 509 |
| | " | 4 | X | | - | - | - | 647 |
| | " | 6 | X | | - | - | - | <20.0 |
| | " | 8 | X | | - | - | - | 84.0 |
| | " | 10 | X | | - | - | - | <20.0 |
| | " | 12 | X | | - | - | - | 70.0 |
| Trench-3 (Area between AH-4 and AH-6) | 6/13/2012 | surface | | X | <10.0 | 4,500 | 4,500 | 961 |
| | " | 2 | X | | <2.00 | <50.0 | <50.0 | 322 |
| | " | 4 | X | | <2.00 | <50.0 | <50.0 | 135 |
| | " | 6 | X | | - | - | - | 215 |
| | " | 8 | X | | - | - | - | <20.0 |
| | " | 10 | X | | - | - | - | <20.0 |
| | " | 12 | X | | - | - | - | 131 |
| Trench-4 (Area between AH-3, AH-7 and AH-8) | 6/13/2012 | surface | | X | <2.00 | 914 | 914 | 221 |
| | " | 2 | X | | <2.00 | <50.0 | <50.0 | 9,290 |
| | " | 4 | X | | | | | 405 |
| | " | 6 | X | | - | - | - | 2,000 |
| | " | 8 | X | | - | - | - | 1,670 |
| | " | 10 | X | | - | - | - | 716 |
| | " | 12 | X | | - | - | - | 362 |
| Trench-5 (Area of AH-9) | 6/13/2012 | surface | | X | <2.00 | <50.0 | <50.0 | 1,070 |
| | " | 2 | X | | - | - | - | 122 |
| | " | 4 | X | | - | - | - | <20.0 |
| | " | 6 | X | | - | - | - | 49.5 |
| | " | 8 | X | | - | - | - | 40.5 |
| | " | 10 | X | | - | - | - | 245 |
| | " | 12 | X | | - | - | - | 107 |

(--)

Not Analyzed

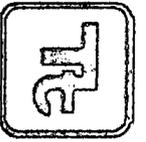


Excavated Depths

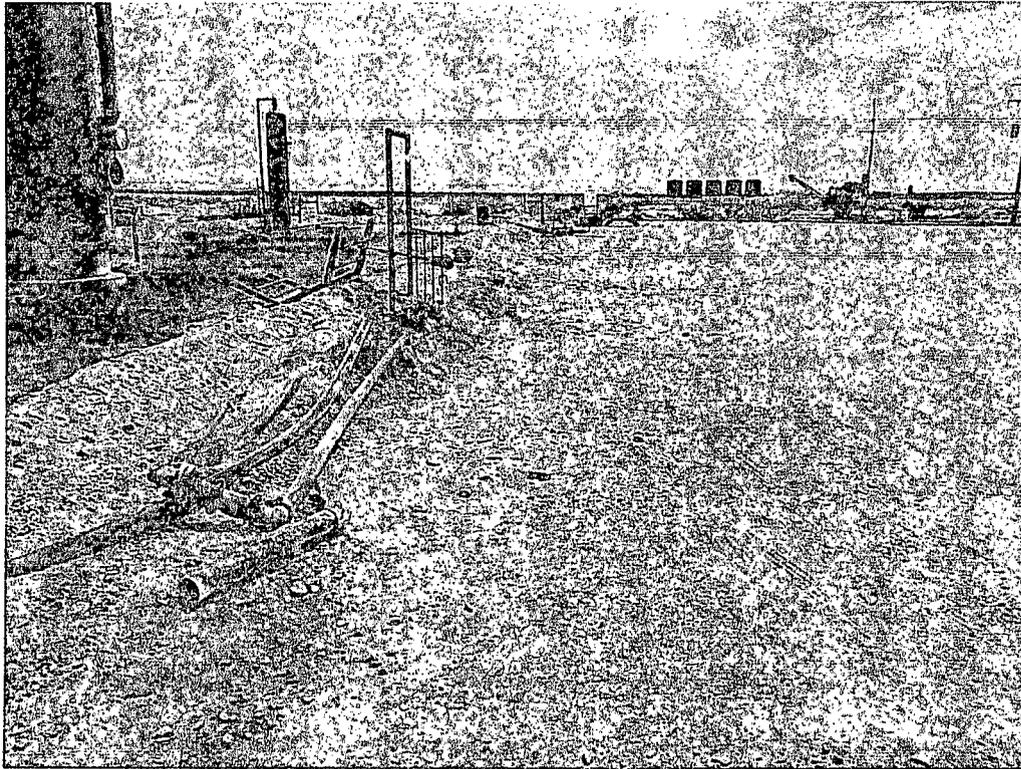
.40 mil Liner Installed

Photos

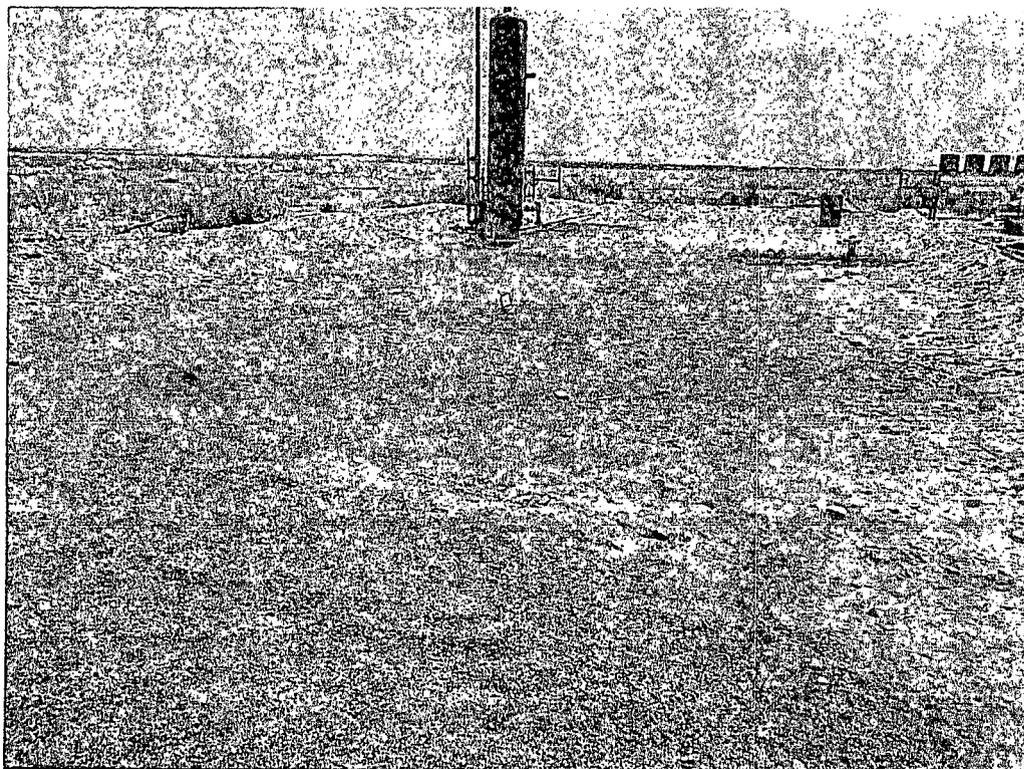
COG Operating LLC
SRO State Unit Com #2
Eddy County, New Mexico



TETRA TECH



Spill Assessment: View East – Area of AH-1, 2 and 3

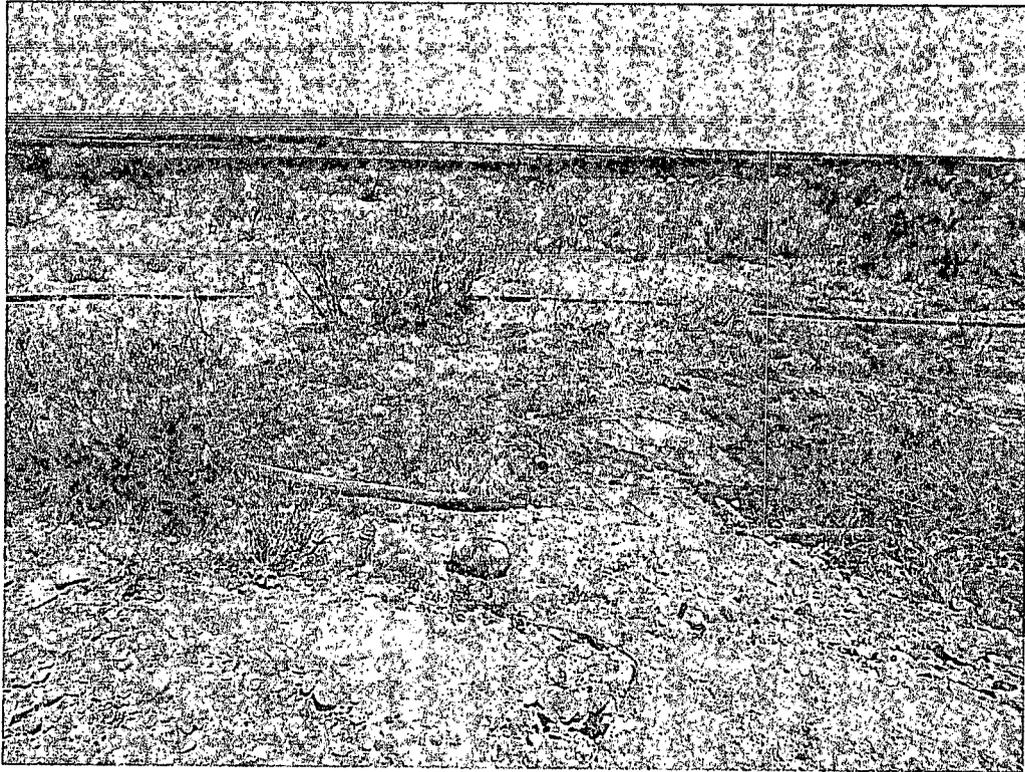


Spill Assessment: View East – Area of AH-4 and 5

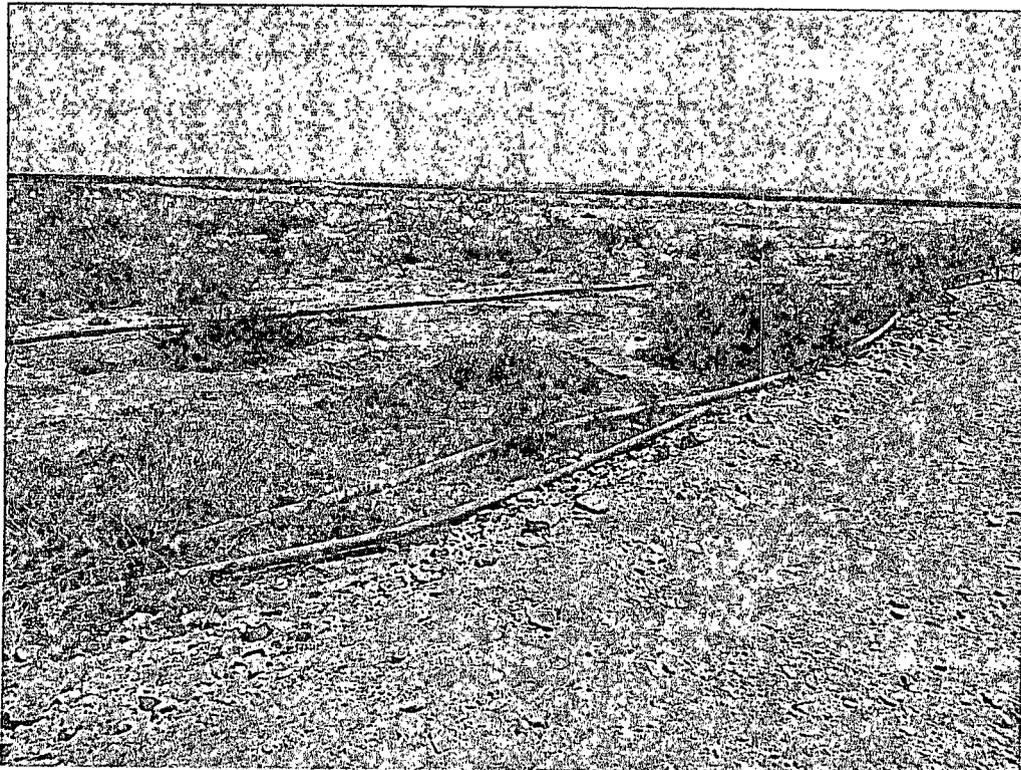
COG Operating LLC
SRO State Unit Com #2
Eddy County, New Mexico



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Spill Assessment: View North – Area of AH-9 and 11

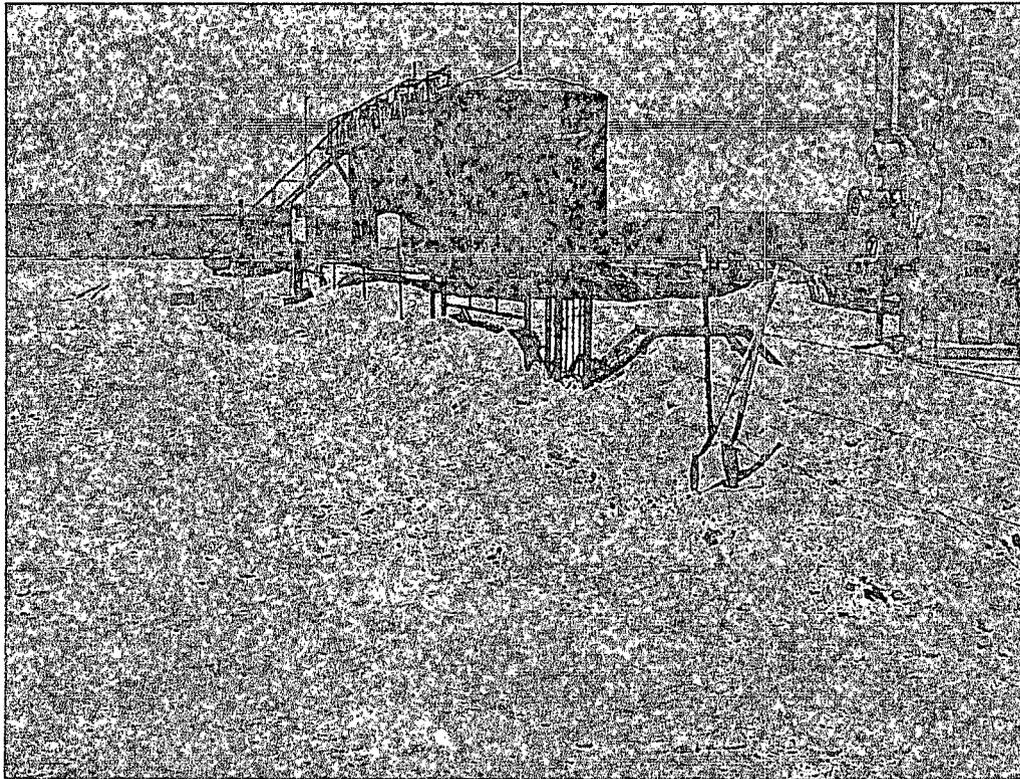


Spill Assessment: View Northeast – Area of AH-10, 12 and

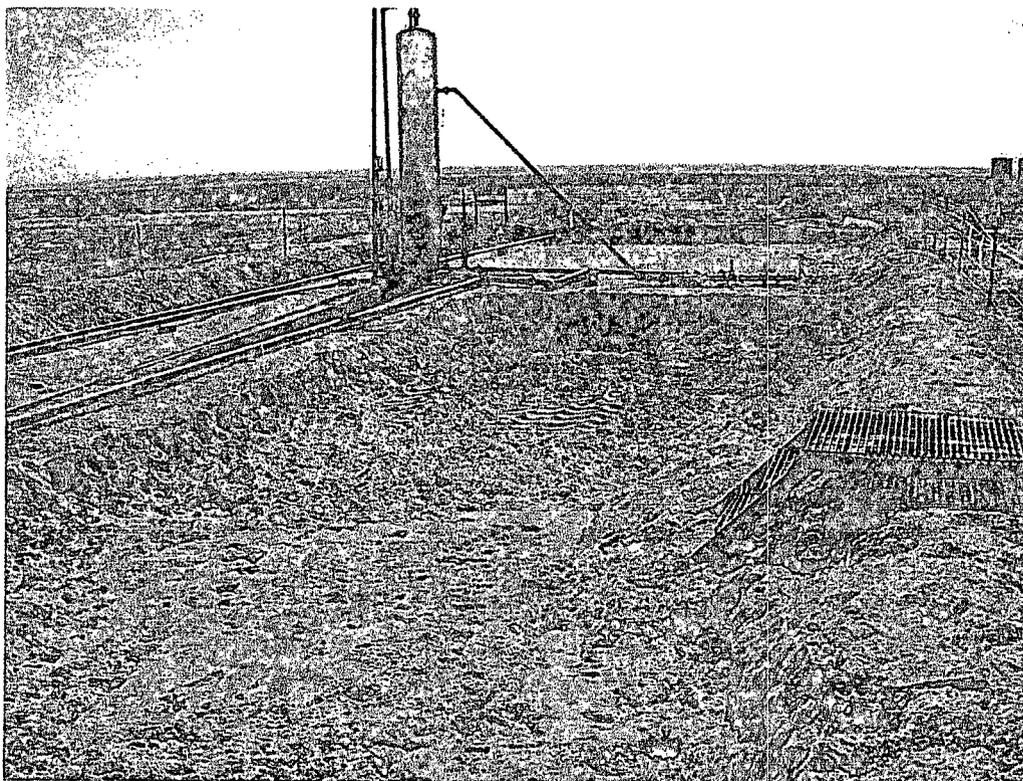
COG Operating LLC
SRO State Unit Com #2
Eddy County, New Mexico



TETRA TECH



Excavation: View West – Area of AH-1 and 2

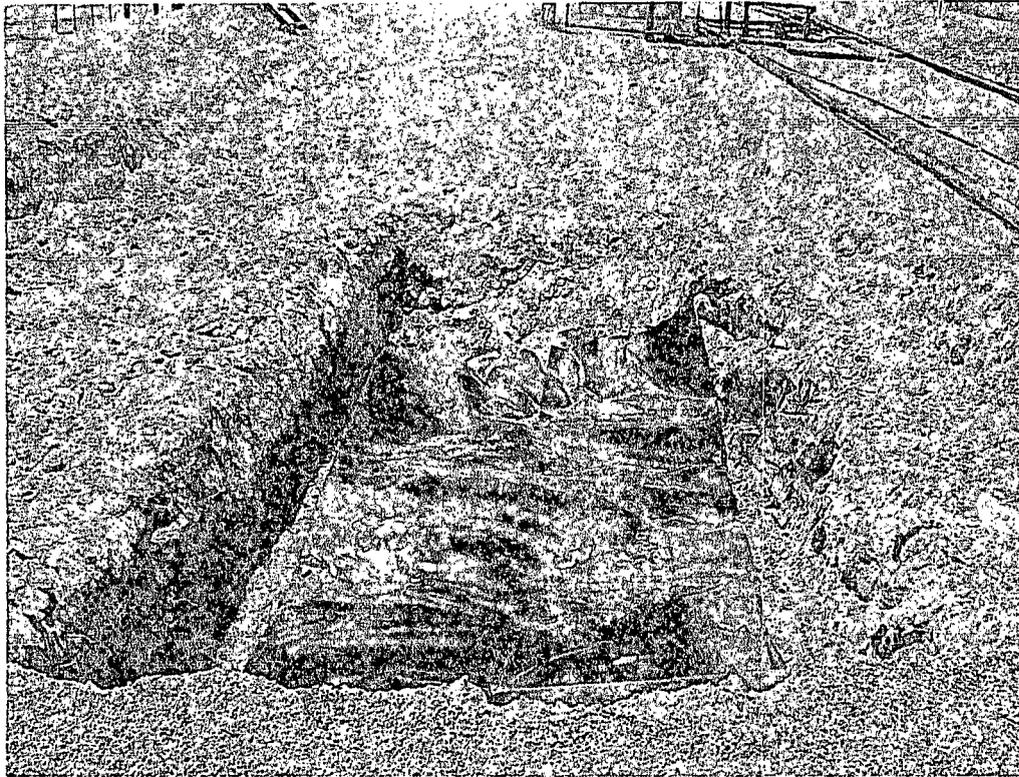


Excavation: View East – 1.0' area inside of Tank Battery

COG Operating LLC
SRO State Unit Com #2
Eddy County, New Mexico



TETRA TECH

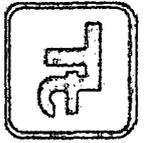


Excavation: View West – Area of T-4, .40 mil liner installed

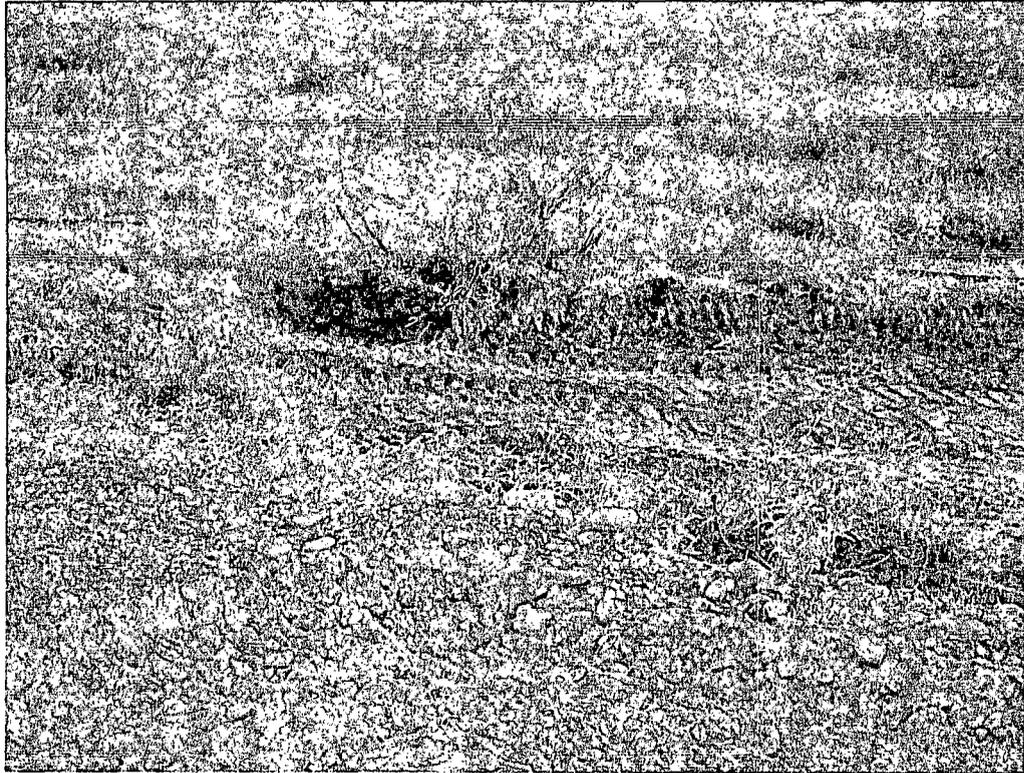


Excavation: View East – Area of Gravel road north of Tank Battery

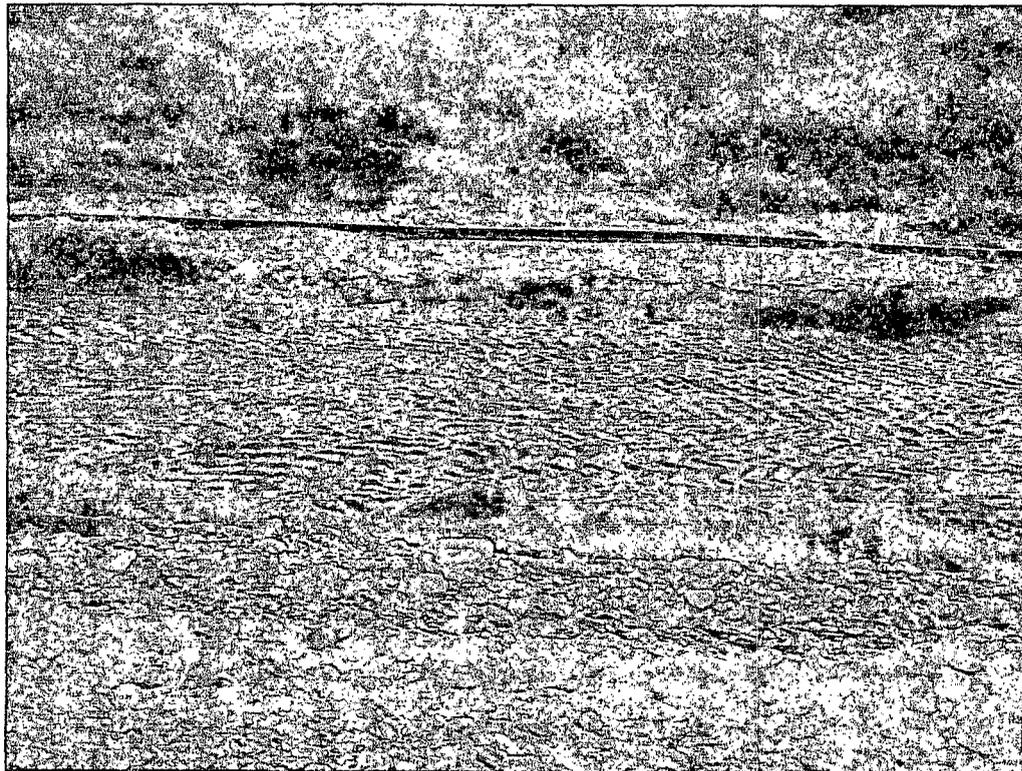
COG Operating LLC
SRO State Unit Com #2
Eddy County, New Mexico



TETRA TECH



Excavation: View North – Area of AH-9 and 11

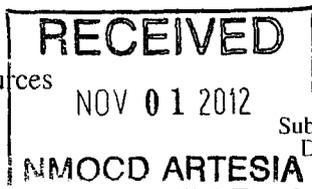


Excavation: View North – Area of AH-10, 12 and 13

Appendix A

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-141
Revised October 10, 2003
Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | | | |
|-----------------|---|---------------|----------------|
| Name of Company | COG Operating LLC | Contact | Pat Ellis |
| Address | 550 W. Texas, Suite 1300 Midland, Texas 79701 | Telephone No. | (432) 230-0077 |
| Facility Name | SRO State Unit Com #2 | Facility Type | Tank Battery |

| | | |
|----------------------|---------------|-------------------------------|
| Surface Owner: State | Mineral Owner | Lease No. (API#) 30-015-37141 |
|----------------------|---------------|-------------------------------|

LOCATION OF RELEASE

| | | | | | | | | |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
| P | 32 | 25S | 28E | | | | | Eddy |

Latitude N 32.08034° Longitude W 104.10180°

NATURE OF RELEASE

| | | |
|--|--|--|
| Type of Release: Produced Fluid | Volume of Release 50 bbls oil 80 bbls pw | Volume Recovered 10 bbls oil 30 bbls pw |
| Source of Release: Heater Treater | Date and Hour of Occurrence 3/15/2012 | Date and Hour of Discovery 3/15/2012 9:00p.m. |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Mike Bratcher--OCD | |
| By Whom? Josh Russo | Date and Hour 3/19/2012 10:18 a.m. | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. N/A | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
The heater treater over-pressured and ruptured at the SRO State Unit Com #2 Tank Battery. A new heater treater will be installed.

Describe Area Affected and Cleanup Action Taken.*
Tetra Tech personnel inspected the site and collected samples to define spills extent. Soil that exceeded RRAL was removed and hauled away for proper disposal. The site was then brought up to surface grade with clean backfill material. Tetra Tech prepared a closure report and submitted to NMOCD for review.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

| | | |
|---|----------------------------------|-----------------------------------|
| Signature: | <u>OIL CONSERVATION DIVISION</u> | |
| Printed Name: Ike Tavarez (Agent for COG) | Approved by District Supervisor: | |
| Title: Project Manager | Approval Date: | Expiration Date: |
| E-mail Address: Ike.Tavarez@TetraTech.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 10-18-12 Phone: (432) 682-4559 | | |

* Attach Additional Sheets If Necessary

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-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | | | |
|-----------------|--|---------------|--------------|
| Name of Company | COG OPERATING LLC | Contact | Pat Ellis |
| Address | 550 W. Texas, Suite 100, Midland, TX 79701 | Telephone No. | 432-230-0077 |
| Facility Name | SRO State Unit Com #2 | Facility Type | Tank Battery |

| | | | | | |
|---------------|-------|---------------|--|------------------|--------------|
| Surface Owner | State | Mineral Owner | | Lease No. (API#) | 30-015-37141 |
|---------------|-------|---------------|--|------------------|--------------|

LOCATION OF RELEASE

| | | | | | | | | |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
| P | 32 | 25S | 28E | | | | | Eddy |

Latitude 32.0802 Longitude 104.1021

NATURE OF RELEASE

| | | | | | |
|-----------------------------|---|---|-------------------------|----------------------------|-------------------------|
| Type of Release | Produced fluid | Volume of Release | 50bbls oil 80bbls pw | Volume Recovered | 10bbls oil 30bbls pw |
| Source of Release | Heater treater | Date and Hour of Occurrence | 03/15/2012 | Date and Hour of Discovery | 03/15/2012 9:00 p.m. |
| Was Immediate Notice Given? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? | Mike Bratcher-OCD | | |
| By Whom? | Josh Russo | Date and Hour | 03/19/2012 10:18 a.m. | | |
| Was a Watercourse Reached? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | | | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

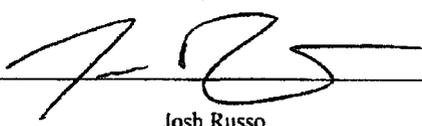
The heater treater over-pressured and ruptured at the SRO State Unit Com #2 Tank Battery. A new heater treater will be installed.

Describe Area Affected and Cleanup Action Taken.*

Initially roughly 130bbls of produced fluid was release from the heater treater and we were able to recover 40bbls with a vacuum truck. The release occurred inside the unlined dike walls of the facility. The spill also reached the pasture adjacent to the tank battery and measures an area of 30' x 50'. Tetra Tech will sample the spill site area to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

| | | | |
|-----------------|---|-----------------------------------|------------------|
| Signature: |  | Approved by District Supervisor: | |
| Printed Name: | Josh Russo | Approval Date: | Expiration Date: |
| Title: | HSE Coordinator | Conditions of Approval: | |
| E-mail Address: | jrusso@conchoresources.com | Attached <input type="checkbox"/> | |
| Date: | 03/29/2012 | Phone: | 432-212-2399 |

* Attach Additional Sheets If Necessary

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
COG - SRO State Unit Com #2
Eddy County, New Mexico

24 South 27 East

| | | | | | |
|----|----|----|----|----|----|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 28 | 9 | 43 | 10 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 34 | | | | | 31 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

24 South 28 East

| | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|
| 6 | 70 | 5 | 30 | 4 | 30 | 3 | 2 | 55 | 1 | 60 |
| 7 | | 8 | 50 | 9 | | 10 | 17 | 11 | 20 | 12 |
| 18 | | 17 | 42 | 16 | 29 | 15 | 18 | 14 | 52 | 13 |
| 19 | | 20 | 48 | 21 | | 22 | | 23 | | 24 |
| 30 | | 29 | 28 | 27 | | 26 | | 25 | | |
| 31 | | 32 | 33 | 34 | | 35 | | 36 | | |

24 South 29 East

| | | | | |
|----|-----|----|----|----|
| 6 | 5 | 4 | 3 | 2 |
| 7 | 160 | 8 | 9 | 10 |
| 18 | | 17 | 16 | 15 |
| 19 | | 20 | 21 | 22 |
| 30 | | 29 | 28 | 27 |
| 31 | | 32 | 33 | 34 |

25 South 27 East

| | | | | | |
|----|----|----|----|----|----|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

25 South 28 East

| | | | | | | |
|----|----|----|----|----|----|----|
| 6 | 5 | 4 | 35 | 3 | 2 | 1 |
| 7 | 59 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 | |
| 19 | 20 | 21 | 22 | 23 | 24 | |
| 30 | 29 | 28 | 27 | 26 | 25 | |
| 31 | 32 | 33 | 34 | 35 | 36 | |

25 South 29 East

| | | | | |
|----|----|----|----|----|
| 6 | 40 | 4 | 3 | 2 |
| 7 | 8 | 9 | 10 | 11 |
| 18 | 17 | 16 | 15 | 14 |
| 19 | 20 | 21 | 22 | 23 |
| 30 | 29 | 28 | 27 | 26 |
| 31 | 32 | 33 | 34 | 35 |

26 South 27 East

| | | | | | |
|----|----|----|----|----|----|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 12 | 8 | 9 | 10 | 11 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

26 South 28 East

| | | | | | |
|----|----|----|----|----|----|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

26 South 29 East

| | | | | |
|----|----|----|----|----|
| 6 | 5 | 4 | 3 | 2 |
| 7 | 8 | 9 | 10 | 11 |
| 18 | 17 | 16 | 15 | 14 |
| 19 | 20 | 21 | 22 | 23 |
| 30 | 29 | 28 | 27 | 26 |
| 31 | 32 | 33 | 34 | 35 |

-  New Mexico State Engineers Well Reports
-  USGS Well Reports
-  Geology and Groundwater Conditions in Southern Eddy, County, NM
-  NMOCD - Groundwater Data
-  Field water level
-  New Mexico Water and Infrastructure Data System
-  Tetra Tech Temporary well



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

| POD Number | POD Code | Subbasin | County | Q Q Q | | | | X | Y | Depth Depth Water | | | | |
|---------------------|----------|----------|--------|-------|----|----|-----|-----|--------|-------------------|----------|------|-------|--------|
| | | | | 64 | 16 | 4 | Sec | | | Tws | Rng | Well | Water | Column |
| <u>C 01278</u> | C | ED | | 4 | 3 | 28 | 25S | 28E | 585470 | 3551338* | 205 | 90 | 115 | |
| <u>C 01411</u> | C | ED | | 4 | 4 | 2 | 04 | 25S | 28E | 586289 | 3558522* | 69 | 35 | 34 |
| <u>C 01453</u> | C | ED | | 1 | 2 | 26 | 25S | 28E | 589096 | 3552612* | 70 | 40 | 30 | |
| <u>C 01522</u> | C | ED | | | 1 | 22 | 25S | 28E | 586843 | 3554004* | 150 | | | |
| <u>C 01573 POD1</u> | C | ED | | 3 | 1 | 4 | 20 | 25S | 28E | 584144 | 3553361 | 176 | 96 | 80 |
| <u>C 02668</u> | C | ED | | 2 | 1 | 2 | 09 | 25S | 28E | 585890 | 3557525* | 150 | | |
| <u>C 03263 POD1</u> | | ED | | 1 | 1 | 1 | 07 | 25S | 28E | 581628 | 3557501* | 133 | | |

Average Depth to Water: **65 feet**

Minimum Depth: **35 feet**

Maximum Depth: **96 feet**

Record Count: 7

PLSS Search:

Township: 25S Range: 28E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

9/19/12 9:10 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Appendix C

Summary Report

Ike Tavarez
Tetra Tech
1910 N. Big Spring Street
Midland, TX 79705

Report Date: June 29, 2012

Work Order: 12061820



Project Location: Eddy Co., NM
Project Name: COG/SRO State Unit Com. #2
Project Number: 114-6401366

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------------------|--------|------------|------------|---------------|
| 301372 | Trench-1 Surface (AH-1) | soil | 2012-06-13 | 00:30 | 2012-06-18 |
| 301373 | Trench-1 2' (AH-1) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301374 | Trench-1 4' (AH-1) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301375 | Trench-1 6' (AH-1) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301376 | Trench-1 8' (AH-1) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301377 | Trench-1 10' (AH-1) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301378 | Trench-1 12' (AH-1) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301379 | Trench-2 Surface (AH-2) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301380 | Trench-2 2' (AH-2) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301381 | Trench-2 4' (AH-2) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301382 | Trench-2 6' (AH-2) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301383 | Trench-2 8' (AH-2) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301384 | Trench-2 10' (AH-2) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301385 | Trench-2 12' (AH-2) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301386 | Trench-3 Surface (AH-4) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301387 | Trench-3 2' (AH-4) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301388 | Trench-3 4' (AH-4) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301389 | Trench-3 6' (AH-4) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301390 | Trench-3 8' (AH-4) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301391 | Trench-3 10' (AH-4) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301392 | Trench-3 12' (AH-4) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301393 | Trench-4 Surface (AH-5) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301394 | Trench-4 2' (AH-5) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301395 | Trench-4 4' (AH-5) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301396 | Trench-4 6' (AH-5) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301397 | Trench-4 8' (AH-5) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301398 | Trench-4 10' (AH-5) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301399 | Trench-4 12' (AH-5) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301400 | Trench-5 Surface (AH-9) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301401 | Trench-5 2' (AH-9) | soil | 2012-06-13 | 00:00 | 2012-06-18 |

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|---------------------|--------|------------|------------|---------------|
| 301402 | Trench-5 4' (AH-9) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301403 | Trench-5 6' (AH-9) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301404 | Trench-5 8' (AH-9) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301405 | Trench-5 10' (AH-9) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301406 | Trench-5 12' (AH-9) | soil | 2012-06-13 | 00:00 | 2012-06-18 |

| Sample - Field Code | TPH DRO - NEW DRO (mg/Kg) | TPH GRO GRO (mg/Kg) |
|----------------------------------|---------------------------------|---------------------------|
| 301372 - Trench-1 Surface (AH-1) | 849 Qr,Qs | <2.00 |
| 301373 - Trench-1 2' (AH-1) | <50.0 | <2.00 |
| 301379 - Trench-2 Surface (AH-2) | <50.0 Qr,Qs | <2.00 |
| 301386 - Trench-3 Surface (AH-4) | 4500 Qr,Qs | <10.0 |
| 301387 - Trench-3 2' (AH-4) | <50.0 | <2.00 |
| 301388 - Trench-3 4' (AH-4) | <50.0 | <2.00 |
| 301393 - Trench-4 Surface (AH-5) | 914 Qr,Qs | <2.00 |
| 301394 - Trench-4 2' (AH-5) | <50.0 | <2.00 |
| 301400 - Trench-5 Surface (AH-9) | <50.0 Qr,Qs | <2.00 |

Sample: 301372 - Trench-1 Surface (AH-1)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 744 | mg/Kg | 4 |

Sample: 301373 - Trench-1 2' (AH-1)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 208 | mg/Kg | 4 |

Sample: 301374 - Trench-1 4' (AH-1)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | <20.0 | mg/Kg | 4 |

Sample: 301375 - Trench-1 6' (AH-1)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 69.4 | mg/Kg | 4 |

Sample: 301376 - Trench-1 8' (AH-1)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | <20.0 | mg/Kg | 4 |

Sample: 301377 - Trench-1 10' (AH-1)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 41.6 | mg/Kg | 4 |

Sample: 301378 - Trench-1 12' (AH-1)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | <20.0 | mg/Kg | 4 |

Sample: 301379 - Trench-2 Surface (AH-2)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 83.2 | mg/Kg | 4 |

Sample: 301380 - Trench-2 2' (AH-2)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 509 | mg/Kg | 4 |

Sample: 301381 - Trench-2 4' (AH-2)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 647 | mg/Kg | 4 |

Sample: 301382 - Trench-2 6' (AH-2)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | <20.0 | mg/Kg | 4 |

Sample: 301383 - Trench-2 8' (AH-2)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 84.0 | mg/Kg | 4 |

Sample: 301384 - Trench-2 10' (AH-2)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | <20.0 | mg/Kg | 4 |

Sample: 301385 - Trench-2 12' (AH-2)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 70.0 | mg/Kg | 4 |

Sample: 301386 - Trench-3 Surface (AH-4)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 961 | mg/Kg | 4 |

Sample: 301387 - Trench-3 2' (AH-4)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 322 | mg/Kg | 4 |

Sample: 301388 - Trench-3 4' (AH-4)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 135 | mg/Kg | 4 |

Sample: 301389 - Trench-3 6' (AH-4)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 215 | mg/Kg | 4 |

Sample: 301390 - Trench-3 8' (AH-4)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | <20.0 | mg/Kg | 4 |

Sample: 301391 - Trench-3 10' (AH-4)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | <20.0 | mg/Kg | 4 |

Sample: 301392 - Trench-3 12' (AH-4)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 131 | mg/Kg | 4 |

Sample: 301393 - Trench-4 Surface (AH-5)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 221 | mg/Kg | 4 |

Sample: 301394 - Trench-4 2' (AH-5)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 9290 | mg/Kg | 4 |

Sample: 301395 - Trench-4 4' (AH-5)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 405 | mg/Kg | 4 |

Sample: 301396 - Trench-4 6' (AH-5)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 2000 | mg/Kg | 4 |

Sample: 301397 - Trench-4 8' (AH-5)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 1670 | mg/Kg | 4 |

Sample: 301398 - Trench-4 10' (AH-5)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 716 | mg/Kg | 4 |

Sample: 301399 - Trench-4 12' (AH-5)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 362 | mg/Kg | 4 |

Sample: 301400 - Trench-5 Surface (AH-9)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 1070 | mg/Kg | 4 |

Sample: 301401 - Trench-5 2' (AH-9)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 122 | mg/Kg | 4 |

Sample: 301402 - Trench-5 4' (AH-9)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | <20.0 | mg/Kg | 4 |

Sample: 301403 - Trench-5 6' (AH-9)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 49.5 | mg/Kg | 4 |

Sample: 301404 - Trench-5 8' (AH-9)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 40.5 | mg/Kg | 4 |

Sample: 301405 - Trench-5 10' (AH-9)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 245 | mg/Kg | 4 |

Sample: 301406 - Trench-5 12' (AH-9)

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 107 | mg/Kg | 4 |



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1298 806-794-1298 FAX 806-794-1298
200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report (Corrected Report)

Ike Tavaréz
Tetra Tech
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: June 29, 2012

Work Order: 12061820



Project Location: Eddy Co., NM
Project Name: COG/SRO State Unit Com. #2
Project Number: 114-6401366

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------------------|--------|------------|------------|---------------|
| 301372 | Trench-1 Surface (AH-1) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301373 | Trench-1 2' (AH-1) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301374 | Trench-1 4' (AH-1) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301375 | Trench-1 6' (AH-1) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301376 | Trench-1 8' (AH-1) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301377 | Trench-1 10' (AH-1) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301378 | Trench-1 12' (AH-1) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301379 | Trench-2 Surface (AH-2) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301380 | Trench-2 2' (AH-2) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301381 | Trench-2 4' (AH-2) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301382 | Trench-2 6' (AH-2) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301383 | Trench-2 8' (AH-2) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301384 | Trench-2 10' (AH-2) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301385 | Trench-2 12' (AH-2) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301386 | Trench-3 Surface (AH-4) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301387 | Trench-3 2' (AH-4) | soil | 2012-06-13 | 00:00 | 2012-06-18 |

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------------------|--------|------------|------------|---------------|
| 301388 | Trench-3 4' (AH-4) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301389 | Trench-3 6' (AH-4) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301390 | Trench-3 8' (AH-4) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301391 | Trench-3 10' (AH-4) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301392 | Trench-3 12' (AH-4) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301393 | Trench-4 Surface (AH-5) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301394 | Trench-4 2' (AH-5) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301395 | Trench-4 4' (AH-5) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301396 | Trench-4 6' (AH-5) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301397 | Trench-4 8' (AH-5) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301398 | Trench-4 10' (AH-5) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301399 | Trench-4 12' (AH-5) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301400 | Trench-5 Surface (AH-9) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301401 | Trench-5 2' (AH-9) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301402 | Trench-5 4' (AH-9) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301403 | Trench-5 6' (AH-9) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301404 | Trench-5 8' (AH-9) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301405 | Trench-5 10' (AH-9) | soil | 2012-06-13 | 00:00 | 2012-06-18 |
| 301406 | Trench-5 12' (AH-9) | soil | 2012-06-13 | 00:00 | 2012-06-18 |

Report Corrections (Work Order 12061820)

- 6/26/12: Added chloride test to samples 301397 - 301399 per client.

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 41 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director
 Dr. Michael Abel, Project Manager

Report Contents

| | |
|---|-----------|
| Case Narrative | 6 |
| Analytical Report | 7 |
| Sample 301372 (Trench-1 Surface (AH-1)) | 7 |
| Sample 301373 (Trench-1 2' (AH-1)) | 8 |
| Sample 301374 (Trench-1 4' (AH-1)) | 9 |
| Sample 301375 (Trench-1 6' (AH-1)) | 9 |
| Sample 301376 (Trench-1 8' (AH-1)) | 9 |
| Sample 301377 (Trench-1 10' (AH-1)) | 10 |
| Sample 301378 (Trench-1 12' (AH-1)) | 10 |
| Sample 301379 (Trench-2 Surface (AH-2)) | 10 |
| Sample 301380 (Trench-2 2' (AH-2)) | 11 |
| Sample 301381 (Trench-2 4' (AH-2)) | 11 |
| Sample 301382 (Trench-2 6' (AH-2)) | 12 |
| Sample 301383 (Trench-2 8' (AH-2)) | 12 |
| Sample 301384 (Trench-2 10' (AH-2)) | 12 |
| Sample 301385 (Trench-2 12' (AH-2)) | 12 |
| Sample 301386 (Trench-3 Surface (AH-4)) | 13 |
| Sample 301387 (Trench-3 2' (AH-4)) | 14 |
| Sample 301388 (Trench-3 4' (AH-4)) | 15 |
| Sample 301389 (Trench-3 6' (AH-4)) | 16 |
| Sample 301390 (Trench-3 8' (AH-4)) | 16 |
| Sample 301391 (Trench-3 10' (AH-4)) | 16 |
| Sample 301392 (Trench-3 12' (AH-4)) | 17 |
| Sample 301393 (Trench-4 Surface (AH-5)) | 17 |
| Sample 301394 (Trench-4 2' (AH-5)) | 18 |
| Sample 301395 (Trench-4 4' (AH-5)) | 19 |
| Sample 301396 (Trench-4 6' (AH-5)) | 19 |
| Sample 301397 (Trench-4 8' (AH-5)) | 19 |
| Sample 301398 (Trench-4 10' (AH-5)) | 20 |
| Sample 301399 (Trench-4 12' (AH-5)) | 20 |
| Sample 301400 (Trench-5 Surface (AH-9)) | 20 |
| Sample 301401 (Trench-5 2' (AH-9)) | 21 |
| Sample 301402 (Trench-5 4' (AH-9)) | 22 |
| Sample 301403 (Trench-5 6' (AH-9)) | 22 |
| Sample 301404 (Trench-5 8' (AH-9)) | 22 |
| Sample 301405 (Trench-5 10' (AH-9)) | 22 |
| Sample 301406 (Trench-5 12' (AH-9)) | 23 |
| Method Blanks | 24 |
| QC Batch 92297 - Method Blank (1) | 24 |
| QC Batch 92316 - Method Blank (1) | 24 |
| QC Batch 92352 - Method Blank (1) | 24 |
| QC Batch 92359 - Method Blank (1) | 25 |
| QC Batch 92467 - Method Blank (1) | 25 |
| QC Batch 92468 - Method Blank (1) | 25 |

| | |
|---|-----------|
| QC Batch 92474 - Method Blank (1) | 25 |
| QC Batch 92475 - Method Blank (1) | 26 |
| QC Batch 92580 - Method Blank (1) | 26 |
| Laboratory Control Spikes | 27 |
| QC Batch 92297 - LCS (1) | 27 |
| QC Batch 92316 - LCS (1) | 27 |
| QC Batch 92352 - LCS (1) | 28 |
| QC Batch 92359 - LCS (1) | 28 |
| QC Batch 92467 - LCS (1) | 28 |
| QC Batch 92468 - LCS (1) | 29 |
| QC Batch 92474 - LCS (1) | 29 |
| QC Batch 92475 - LCS (1) | 30 |
| QC Batch 92580 - LCS (1) | 30 |
| QC Batch 92297 - MS (1) | 30 |
| QC Batch 92316 - MS (1) | 31 |
| QC Batch 92352 - MS (1) | 31 |
| QC Batch 92359 - MS (1) | 32 |
| QC Batch 92467 - MS (1) | 32 |
| QC Batch 92468 - MS (1) | 33 |
| QC Batch 92474 - MS (1) | 33 |
| QC Batch 92475 - MS (1) | 33 |
| QC Batch 92580 - MS (1) | 34 |
| Calibration Standards | 35 |
| QC Batch 92297 - CCV (1) | 35 |
| QC Batch 92297 - CCV (2) | 35 |
| QC Batch 92297 - CCV (3) | 35 |
| QC Batch 92316 - CCV (1) | 35 |
| QC Batch 92316 - CCV (2) | 35 |
| QC Batch 92316 - CCV (3) | 36 |
| QC Batch 92352 - CCV (1) | 36 |
| QC Batch 92352 - CCV (2) | 36 |
| QC Batch 92352 - CCV (3) | 36 |
| QC Batch 92359 - CCV (1) | 37 |
| QC Batch 92359 - CCV (2) | 37 |
| QC Batch 92359 - CCV (3) | 37 |
| QC Batch 92467 - CCV (1) | 37 |
| QC Batch 92467 - CCV (2) | 38 |
| QC Batch 92468 - CCV (1) | 38 |
| QC Batch 92468 - CCV (2) | 38 |
| QC Batch 92474 - CCV (1) | 38 |
| QC Batch 92474 - CCV (2) | 39 |
| QC Batch 92475 - CCV (1) | 39 |
| QC Batch 92475 - CCV (2) | 39 |
| QC Batch 92580 - CCV (1) | 39 |
| QC Batch 92580 - CCV (2) | 40 |

| | |
|-------------------------------------|----|
| Report Definitions | 41 |
| Laboratory Certifications | 41 |
| Standard Flags | 41 |
| Attachments | 41 |

Case Narrative

Samples for project COG/SRO State Unit Com. #2 were received by TraceAnalysis, Inc. on 2012-06-18 and assigned to work order 12061820. Samples for work order 12061820 were received intact at a temperature of 4.6 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|----------------------|--------------|------------|---------------------|----------|---------------------|
| Chloride (Titration) | SM 4500-Cl B | 78417 | 2012-06-22 at 10:41 | 92467 | 2012-06-25 at 13:28 |
| Chloride (Titration) | SM 4500-Cl B | 78417 | 2012-06-22 at 10:41 | 92468 | 2012-06-25 at 13:29 |
| Chloride (Titration) | SM 4500-Cl B | 78417 | 2012-06-22 at 10:41 | 92474 | 2012-06-25 at 14:54 |
| Chloride (Titration) | SM 4500-Cl B | 78417 | 2012-06-22 at 10:41 | 92475 | 2012-06-25 at 14:55 |
| Chloride (Titration) | SM 4500-Cl B | 78477 | 2012-06-27 at 11:30 | 92580 | 2012-06-27 at 14:24 |
| TPH DRO - NEW | S 8015 D | 78292 | 2012-06-19 at 08:30 | 92297 | 2012-06-19 at 15:37 |
| TPH DRO - NEW | S 8015 D | 78333 | 2012-06-20 at 08:30 | 92352 | 2012-06-20 at 11:57 |
| TPH GRO | S 8015 D | 78308 | 2012-06-19 at 13:00 | 92316 | 2012-06-19 at 17:29 |
| TPH GRO | S 8015 D | 78339 | 2012-06-20 at 13:00 | 92359 | 2012-06-20 at 15:53 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 12061820 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 301372 - Trench-1 Surface (AH-1)

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 92467 Date Analyzed: 2012-06-25 Analyzed By: AR
 Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 744 | mg/Kg | 5 | 4.00 |

Sample: 301372 - Trench-1 Surface (AH-1)

Laboratory: Midland
 Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 92297 Date Analyzed: 2012-06-19 Analyzed By: AG
 Prep Batch: 78292 Sample Preparation: 2012-06-19 Prepared By: CW

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|--------|------|--------------|-------|----------|------|
| DRO | Qr, Qs | 1 | 849 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | Qsr | Qsr | 255 | mg/Kg | 1 | 100 | 255 | 49.3 - 157.5 |

Sample: 301372 - Trench-1 Surface (AH-1)

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 92316 Date Analyzed: 2012-06-19 Analyzed By: AG
 Prep Batch: 78308 Sample Preparation: 2012-06-19 Prepared By: AG

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | U | 1 | <2.00 | mg/Kg | 1 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 2.22 | mg/Kg | 1 | 2.00 | 111 | 58.5 - 155.1 |

continued ...

sample continued ...

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| 4-Bromofluorobenzene (4-BFB) | | | 1.54 | mg/Kg | 1 | 2.00 | 77 | 45.1 - 162.2 |

Sample: 301373 - Trench-1 2' (AH-1)

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 92467 Date Analyzed: 2012-06-25 Analyzed By: AR
 Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|-----------|-------|----------|------|
| Chloride | | | 208 | mg/Kg | 5 | 4.00 |

Sample: 301373 - Trench-1 2' (AH-1)

Laboratory: Midland
 Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 92352 Date Analyzed: 2012-06-20 Analyzed By: AG
 Prep Batch: 78333 Sample Preparation: 2012-06-20 Prepared By: AG

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|-----------|-------|----------|------|
| DRO | u | i | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | | 100 | mg/Kg | 1 | 100 | 100 | 49.3 - 157.5 |

Sample: 301373 - Trench-1 2' (AH-1)

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 92359 Date Analyzed: 2012-06-20 Analyzed By: AG
 Prep Batch: 78339 Sample Preparation: 2012-06-20 Prepared By: AG

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|-----------|-------|----------|------|
| GRO | u | i | <2.00 | mg/Kg | 1 | 2.00 |

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 9 of 41
Eddy Co., NM

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|-----------------|-----------------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 1.49 | mg/Kg | 1 | 2.00 | 74 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | Q _{sr} | Q _{sr} | 0.691 | mg/Kg | 1 | 2.00 | 34 | 45.1 - 162.2 |

Sample: 301374 - Trench-1 4' (AH-1)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 92467 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | u | | <20.0 | mg/Kg | 5 | 4.00 |

Sample: 301375 - Trench-1 6' (AH-1)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 92467 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 69.4 | mg/Kg | 5 | 4.00 |

Sample: 301376 - Trench-1 8' (AH-1)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 92467 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | u | | <20.0 | mg/Kg | 5 | 4.00 |

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 10 of 41
Eddy Co., NM

Sample: 301377 - Trench-1 10' (AH-1)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 92467 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 41.6 | mg/Kg | 5 | 4.00 |

Sample: 301378 - Trench-1 12' (AH-1)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 92467 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | u | | <20.0 | mg/Kg | 5 | 4.00 |

Sample: 301379 - Trench-2 Surface (AH-2)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 92467 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 83.2 | mg/Kg | 5 | 4.00 |

Sample: 301379 - Trench-2 Surface (AH-2)

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 92297 Date Analyzed: 2012-06-19 Analyzed By: AG
Prep Batch: 78292 Sample Preparation: 2012-06-19 Prepared By: CW

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 11 of 41
Eddy Co., NM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|--------|------|--------------|-------|----------|------|
| DRO | Qr, Qs | 1 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 92.7 | mg/Kg | 1 | 100 | 93 | 49.3 - 157.5 |

Sample: 301379 - Trench-2 Surface (AH-2)

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 92316 Date Analyzed: 2012-06-19 Analyzed By: AG
 Prep Batch: 78308 Sample Preparation: 2012-06-19 Prepared By: AG

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | u | 1 | <2.00 | mg/Kg | 1 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.50 | mg/Kg | 1 | 2.00 | 75 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.00 | mg/Kg | 1 | 2.00 | 50 | 45.1 - 162.2 |

Sample: 301380 - Trench-2 2' (AH-2)

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 92467 Date Analyzed: 2012-06-25 Analyzed By: AR
 Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 509 | mg/Kg | 5 | 4.00 |

Sample: 301381 - Trench-2 4' (AH-2)

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 92467 Date Analyzed: 2012-06-25 Analyzed By: AR
 Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 12 of 41
Eddy Co., NM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 647 | mg/Kg | 5 | 4.00 |

Sample: 301382 - Trench-2 6' (AH-2)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 92468 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | u | | <20.0 | mg/Kg | 5 | 4.00 |

Sample: 301383 - Trench-2 8' (AH-2)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 92468 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 84.0 | mg/Kg | 5 | 4.00 |

Sample: 301384 - Trench-2 10' (AH-2)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 92468 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | u | | <20.0 | mg/Kg | 5 | 4.00 |

Sample: 301385 - Trench-2 12' (AH-2)

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 92468 Date Analyzed: 2012-06-25 Analyzed By: AR
 Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 70.0 | mg/Kg | 5 | 4.00 |

Sample: 301386 - Trench-3 Surface (AH-4)

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 92468 Date Analyzed: 2012-06-25 Analyzed By: AR
 Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 961 | mg/Kg | 10 | 4.00 |

Sample: 301386 - Trench-3 Surface (AH-4)

Laboratory: Midland
 Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 92297 Date Analyzed: 2012-06-19 Analyzed By: AG
 Prep Batch: 78292 Sample Preparation: 2012-06-19 Prepared By: CW

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|----------------------------------|------|--------------|-------|----------|------|
| DRO | Q _{sr} , Q _o | 1 | 4500 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|-----------------|-----------------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | Q _{sr} | Q _{sr} | 446 | mg/Kg | 1 | 100 | 446 | 49.3 - 157.5 |

Sample: 301386 - Trench-3 Surface (AH-4)

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 92316 Date Analyzed: 2012-06-19 Analyzed By: AG
 Prep Batch: 78308 Sample Preparation: 2012-06-19 Prepared By: AG

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 14 of 41
Eddy Co., NM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | u | 1 | <10.0 | mg/Kg | 5 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 4.53 | mg/Kg | 5 | 5.00 | 91 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | | | 3.55 | mg/Kg | 5 | 5.00 | 71 | 45.1 - 162.2 |

Sample: 301387 - Trench-3 2' (AH-4)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 92468 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 322 | mg/Kg | 5 | 4.00 |

Sample: 301387 - Trench-3 2' (AH-4)

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 92352 Date Analyzed: 2012-06-20 Analyzed By: AG
Prep Batch: 78333 Sample Preparation: 2012-06-20 Prepared By: AG

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | u | 1 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 94.7 | mg/Kg | 1 | 100 | 95 | 49.3 - 157.5 |

Sample: 301387 - Trench-3 2' (AH-4)

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 92359 Date Analyzed: 2012-06-20 Analyzed By: AG
Prep Batch: 78339 Sample Preparation: 2012-06-20 Prepared By: AG

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 15 of 41
Eddy Co., NM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | u | 1 | <2.00 | mg/Kg | 1 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|-----------------|-----------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.43 | mg/Kg | 1 | 2.00 | 72 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | Q _{sr} | Q _{sr} | 0.762 | mg/Kg | 1 | 2.00 | 38 | 45.1 - 162.2 |

Sample: 301388 - Trench-3 4' (AH-4)

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 92468 Date Analyzed: 2012-06-25 Analyzed By: AR
 Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 135 | mg/Kg | 5 | 4.00 |

Sample: 301388 - Trench-3 4' (AH-4)

Laboratory: Midland
 Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 92352 Date Analyzed: 2012-06-20 Analyzed By: AG
 Prep Batch: 78333 Sample Preparation: 2012-06-20 Prepared By: AG

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | u | 1 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 96.6 | mg/Kg | 1 | 100 | 97 | 49.3 - 157.5 |

Sample: 301388 - Trench-3 4' (AH-4)

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 92359 Date Analyzed: 2012-06-20 Analyzed By: AG
 Prep Batch: 78339 Sample Preparation: 2012-06-20 Prepared By: AG

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 16 of 41
Eddy Co., NM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | u | 1 | <2.00 | mg/Kg | 1 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|-----------------|-----------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.72 | mg/Kg | 1 | 2.00 | 86 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | Q _{sr} | Q _{sr} | 0.899 | mg/Kg | 1 | 2.00 | 45 | 45.1 - 162.2 |

Sample: 301389 - Trench-3 6' (AH-4)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 92468 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 215 | mg/Kg | 5 | 4.00 |

Sample: 301390 - Trench-3 8' (AH-4)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 92468 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | u | | <20.0 | mg/Kg | 5 | 4.00 |

Sample: 301391 - Trench-3 10' (AH-4)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 92468 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 17 of 41
Eddy Co., NM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | u | | <20.0 | mg/Kg | 5 | 4.00 |

Sample: 301392 - Trench-3 12' (AH-4)

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 92474 Date Analyzed: 2012-06-25 Analyzed By: AR
 Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 131 | mg/Kg | 5 | 4.00 |

Sample: 301393 - Trench-4 Surface (AH-5)

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 92474 Date Analyzed: 2012-06-25 Analyzed By: AR
 Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 221 | mg/Kg | 5 | 4.00 |

Sample: 301393 - Trench-4 Surface (AH-5)

Laboratory: Midland
 Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 92297 Date Analyzed: 2012-06-19 Analyzed By: AG
 Prep Batch: 78292 Sample Preparation: 2012-06-19 Prepared By: CW

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|--------|------|--------------|-------|----------|------|
| DRO | Qr, Qs | 1 | 914 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | Qsr | Qsr | 159 | mg/Kg | 1 | 100 | 159 | 49.3 - 157.5 |

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 18 of 41
Eddy Co., NM

Sample: 301393 - Trench-4 Surface (AH-5)

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 92316 Date Analyzed: 2012-06-19 Analyzed By: AG
Prep Batch: 78308 Sample Preparation: 2012-06-19 Prepared By: AG

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | u | 1 | <2.00 | mg/Kg | 1 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.73 | mg/Kg | 1 | 2.00 | 86 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.25 | mg/Kg | 1 | 2.00 | 62 | 45.1 - 162.2 |

Sample: 301394 - Trench-4 2' (AH-5)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 92474 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 9290 | mg/Kg | 10 | 4.00 |

Sample: 301394 - Trench-4 2' (AH-5)

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 92352 Date Analyzed: 2012-06-20 Analyzed By: AG
Prep Batch: 78333 Sample Preparation: 2012-06-20 Prepared By: AG

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | u | 1 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 97.7 | mg/Kg | 1 | 100 | 98 | 49.3 - 157.5 |

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 19 of 41
Eddy Co., NM

Sample: 301394 - Trench-4 2' (AH-5)

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 92359 Date Analyzed: 2012-06-20 Analyzed By: AG
Prep Batch: 78339 Sample Preparation: 2012-06-20 Prepared By: AG

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | u | 1 | <2.00 | mg/Kg | 1 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|-----------------|-----------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.60 | mg/Kg | 1 | 2.00 | 80 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | Q _{sr} | Q _{sr} | 0.828 | mg/Kg | 1 | 2.00 | 41 | 45.1 - 162.2 |

Sample: 301395 - Trench-4 4' (AH-5)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 92474 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 405 | mg/Kg | 5 | 4.00 |

Sample: 301396 - Trench-4 6' (AH-5)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 92474 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 2000 | mg/Kg | 10 | 4.00 |

Sample: 301397 - Trench-4 8' (AH-5)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 92580 Date Analyzed: 2012-06-27 Analyzed By: AR
Prep Batch: 78477 Sample Preparation: 2012-06-27 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 1670 | mg/Kg | 10 | 4.00 |

Sample: 301398 - Trench-4 10' (AH-5)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 92580 Date Analyzed: 2012-06-27 Analyzed By: AR
Prep Batch: 78477 Sample Preparation: 2012-06-27 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 716 | mg/Kg | 10 | 4.00 |

Sample: 301399 - Trench-4 12' (AH-5)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 92580 Date Analyzed: 2012-06-27 Analyzed By: AR
Prep Batch: 78477 Sample Preparation: 2012-06-27 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 362 | mg/Kg | 5 | 4.00 |

Sample: 301400 - Trench-5 Surface (AH-9)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 92474 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 21 of 41
Eddy Co., NM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 1070 | mg/Kg | 10 | 4.00 |

Sample: 301400 - Trench-5 Surface (AH-9)

Laboratory: Midland
 Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 92297 Date Analyzed: 2012-06-19 Analyzed By: AG
 Prep Batch: 78292 Sample Preparation: 2012-06-19 Prepared By: CW

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|--------|------|--------------|-------|----------|------|
| DRO | Qr, Qs | 1 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 79.3 | mg/Kg | 1 | 100 | 79 | 49.3 - 157.5 |

Sample: 301400 - Trench-5 Surface (AH-9)

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 92316 Date Analyzed: 2012-06-19 Analyzed By: AG
 Prep Batch: 78308 Sample Preparation: 2012-06-19 Prepared By: AG

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | U | 1 | <2.00 | mg/Kg | 1 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.71 | mg/Kg | 1 | 2.00 | 86 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.20 | mg/Kg | 1 | 2.00 | 60 | 45.1 - 162.2 |

Sample: 301401 - Trench-5 2' (AH-9)

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 92474 Date Analyzed: 2012-06-25 Analyzed By: AR
 Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 22 of 41
Eddy Co., NM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 122 | mg/Kg | 5 | 4.00 |

Sample: 301402 - Trench-5 4' (AH-9)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-C1 B Prep Method: N/A
QC Batch: 92474 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | u | | <20.0 | mg/Kg | 5 | 4.00 |

Sample: 301403 - Trench-5 6' (AH-9)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-C1 B Prep Method: N/A
QC Batch: 92474 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 49.5 | mg/Kg | 5 | 4.00 |

Sample: 301404 - Trench-5 8' (AH-9)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-C1 B Prep Method: N/A
QC Batch: 92474 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 40.5 | mg/Kg | 5 | 4.00 |

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 23 of 41
Eddy Co., NM

Sample: 301405 - Trench-5 10' (AH-9)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 92475 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 245 | mg/Kg | 5 | 4.00 |

Sample: 301406 - Trench-5 12' (AH-9)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 92475 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 Sample Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 107 | mg/Kg | 5 | 4.00 |

Method Blanks

Method Blank (1) QC Batch: 92297

QC Batch: 92297
Prep Batch: 78292

Date Analyzed: 2012-06-19
QC Preparation: 2012-06-19

Analyzed By: AG
Prepared By: AG

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|------------|-------|----|
| DRO | | 1 | <14.5 | mg/Kg | 50 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | | 152 | mg/Kg | 1 | 100 | 152 | 52 - 160.8 |

Method Blank (1) QC Batch: 92316

QC Batch: 92316
Prep Batch: 78308

Date Analyzed: 2012-06-19
QC Preparation: 2012-06-19

Analyzed By: AG
Prepared By: AG

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|------------|-------|----|
| GRO | | 1 | <1.22 | mg/Kg | 2 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 2.02 | mg/Kg | 1 | 2.00 | 101 | 78.6 - 131 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.84 | mg/Kg | 1 | 2.00 | 92 | 51 - 130 |

Method Blank (1) QC Batch: 92352

QC Batch: 92352
Prep Batch: 78333

Date Analyzed: 2012-06-20
QC Preparation: 2012-06-20

Analyzed By: AG
Prepared By: AG

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|------------|-------|----|
| DRO | | 1 | <14.5 | mg/Kg | 50 |

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 25 of 41
Eddy Co., NM

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | | 108 | mg/Kg | 1 | 100 | 108 | 52 - 160.8 |

Method Blank (1) QC Batch: 92359

QC Batch: 92359 Date Analyzed: 2012-06-20 Analyzed By: AG
Prep Batch: 78339 QC Preparation: 2012-06-20 Prepared By: AG

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|------------|-------|----|
| GRO | | 1 | <1.22 | mg/Kg | 2 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 1.91 | mg/Kg | 1 | 2.00 | 96 | 78.6 - 131 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.21 | mg/Kg | 1 | 2.00 | 60 | 51 - 130 |

Method Blank (1) QC Batch: 92467

QC Batch: 92467 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 QC Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|------------|-------|----|
| Chloride | | | <3.85 | mg/Kg | 4 |

Method Blank (1) QC Batch: 92468

QC Batch: 92468 Date Analyzed: 2012-06-25 Analyzed By: AR
Prep Batch: 78417 QC Preparation: 2012-06-22 Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|------------|-------|----|
| Chloride | | | <3.85 | mg/Kg | 4 |

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 26 of 41
Eddy Co., NM

Method Blank (1) QC Batch: 92474

QC Batch: 92474
Prep Batch: 78417

Date Analyzed: 2012-06-25
QC Preparation: 2012-06-22

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|----|
| Chloride | | | <3.85 | mg/Kg | 4 |

Method Blank (1) QC Batch: 92475

QC Batch: 92475
Prep Batch: 78417

Date Analyzed: 2012-06-25
QC Preparation: 2012-06-22

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|----|
| Chloride | | | <3.85 | mg/Kg | 4 |

Method Blank (1) QC Batch: 92580

QC Batch: 92580
Prep Batch: 78477

Date Analyzed: 2012-06-27
QC Preparation: 2012-06-27

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|----|
| Chloride | | | <3.85 | mg/Kg | 4 |

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 92297
Prep Batch: 78292

Date Analyzed: 2012-06-19
QC Preparation: 2012-06-19

Analyzed By: AG
Prepared By: AG

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| DRO | | 1 | 251 | mg/Kg | 1 | 250 | <14.5 | 100 | 62 - 128.3 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO | | 1 | 250 | mg/Kg | 1 | 250 | <14.5 | 100 | 62 - 128.3 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|-------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| n-Tricosane | 112 | 113 | mg/Kg | 1 | 100 | 112 | 113 | 58.6 - 149.6 |

Laboratory Control Spike (LCS-1)

QC Batch: 92316
Prep Batch: 78308

Date Analyzed: 2012-06-19
QC Preparation: 2012-06-19

Analyzed By: AG
Prepared By: AG

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| GRO | | 1 | 18.2 | mg/Kg | 1 | 20.0 | <1.22 | 91 | 65.3 - 105.7 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO | | 1 | 18.2 | mg/Kg | 1 | 20.0 | <1.22 | 91 | 65.3 - 105.7 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT) | 2.15 | 2.10 | mg/Kg | 1 | 2.00 | 108 | 105 | 79 - 131.2 |
| 4-Bromofluorobenzene (4-BFB) | 2.42 | 2.37 | mg/Kg | 1 | 2.00 | 121 | 118 | 56.4 - 136.6 |

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 28 of 41
Eddy Co., NM

Laboratory Control Spike (LCS-1)

QC Batch: 92352
Prep Batch: 78333

Date Analyzed: 2012-06-20
QC Preparation: 2012-06-20

Analyzed By: AG
Prepared By: AG

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| DRO | | 1 | 201 | mg/Kg | 1 | 250 | <14.5 | 80 | 62 - 128.3 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO | | 1 | 209 | mg/Kg | 1 | 250 | <14.5 | 84 | 62 - 128.3 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|-------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| n-Tricosane | 82.4 | 69.6 | mg/Kg | 1 | 100 | 82 | 70 | 58.6 - 149.6 |

Laboratory Control Spike (LCS-1)

QC Batch: 92359
Prep Batch: 78339

Date Analyzed: 2012-06-20
QC Preparation: 2012-06-20

Analyzed By: AG
Prepared By: AG

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| GRO | | 1 | 17.5 | mg/Kg | 1 | 20.0 | <1.22 | 88 | 65.3 - 105.7 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO | | 1 | 18.8 | mg/Kg | 1 | 20.0 | <1.22 | 94 | 65.3 - 105.7 | 7 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT) | 2.08 | 2.12 | mg/Kg | 1 | 2.00 | 104 | 106 | 79 - 131.2 |
| 4-Bromofluorobenzene (4-BFB) | 1.61 | 1.62 | mg/Kg | 1 | 2.00 | 80 | 81 | 56.4 - 136.6 |

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 29 of 41
Eddy Co., NM

Laboratory Control Spike (LCS-1)

QC Batch: 92467
Prep Batch: 78417

Date Analyzed: 2012-06-25
QC Preparation: 2012-06-22

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | | 2560 | mg/Kg | 1 | 2500 | <3.85 | 102 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | | 2730 | mg/Kg | 1 | 2500 | <3.85 | 109 | 85 - 115 | 6 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 92468
Prep Batch: 78417

Date Analyzed: 2012-06-25
QC Preparation: 2012-06-22

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | | 2440 | mg/Kg | 1 | 2500 | <3.85 | 98 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | | 2610 | mg/Kg | 1 | 2500 | <3.85 | 104 | 85 - 115 | 7 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 92474
Prep Batch: 78417

Date Analyzed: 2012-06-25
QC Preparation: 2012-06-22

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | | 2530 | mg/Kg | 1 | 2500 | <3.85 | 101 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 30 of 41
Eddy Co., NM

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | | 2710 | mg/Kg | 1 | 2500 | <3.85 | 108 | 85 - 115 | 7 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 92475
Prep Batch: 78417

Date Analyzed: 2012-06-25
QC Preparation: 2012-06-22

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | | 2510 | mg/Kg | 1 | 2500 | <3.85 | 100 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | | 2650 | mg/Kg | 1 | 2500 | <3.85 | 106 | 85 - 115 | 5 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 92580
Prep Batch: 78477

Date Analyzed: 2012-06-27
QC Preparation: 2012-06-27

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | | 2430 | mg/Kg | 1 | 2500 | <3.85 | 97 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | | 2550 | mg/Kg | 1 | 2500 | <3.85 | 102 | 85 - 115 | 5 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 301379

QC Batch: 92297
Prep Batch: 78292

Date Analyzed: 2012-06-19
QC Preparation: 2012-06-19

Analyzed By: AG
Prepared By: AG

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|----------------|----------------|-----------|-------|-------|--------------|---------------|-------|---------------|
| DRO | Q _s | Q _s | 1 | 26.3 | mg/Kg | 1 | 250 | <14.5 | 10 45.5 - 127 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Limit | RPD | RPD Limit |
|-------|---------------------------------|---------------------------------|------------|-------|-------|--------------|---------------|------------|--------------|-----------|
| DRO | Q _r , Q _s | Q _r , Q _s | 1 | 21.2 | mg/Kg | 1 | 250 | <14.5 | 8 45.5 - 127 | 22 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|-------------|-----------------|-----------------|-------|------|--------------|---------|----------|-------------------|
| n-Tricosane | Q _{sr} | Q _{sr} | 9.17 | 12.7 | mg/Kg | 1 | 100 | 9 13 45.4 - 145.8 |

Matrix Spike (MS-1) Spiked Sample: 301379

QC Batch: 92316
Prep Batch: 78308

Date Analyzed: 2012-06-19
QC Preparation: 2012-06-19

Analyzed By: AG
Prepared By: AG

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|-----------|-------|------|--------------|---------------|------|--------------|
| GRO | | 1 | 15.2 | mg/Kg | 1 | 20.0 | <1.22 | 76 | 28.2 - 157.2 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Limit | RPD | RPD Limit |
|-------|---|---|------------|-------|------|--------------|---------------|-----------------|-----|-----------|
| GRO | | 1 | 14.3 | mg/Kg | 1 | 20.0 | <1.22 | 72 28.2 - 157.2 | 6 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------------|-----------------|-------|------|--------------|---------|----------|-----------------|
| Trifluorotoluene (TFT) | 2.00 | 1.81 | mg/Kg | 1 | 2 | 100 | 90 | 75.5 - 122.3 |
| 4-Bromofluorobenzene (4-BFB) | Q _{sr} | Q _{sr} | 1.49 | 1.37 | mg/Kg | 1 | 74 | 68 77.9 - 122.4 |

Matrix Spike (MS-1) Spiked Sample: 301417

QC Batch: 92352
Prep Batch: 78333

Date Analyzed: 2012-06-20
QC Preparation: 2012-06-20

Analyzed By: AG
Prepared By: AG

continued ...

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 32 of 41
Eddy Co., NM

matrix spikes continued ...

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
| DRO | | 1 | 210 | mg/Kg | 1 | 250 | <14.5 | 84 | 45.5 - 127 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
| DRO | | 1 | 239 | mg/Kg | 1 | 250 | <14.5 | 96 | 45.5 - 127 | 13 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|-------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| n-Tricosane | 82.7 | 82.3 | mg/Kg | 1 | 100 | 83 | 82 | 45.4 - 145.8 |

Matrix Spike (MS-1) Spiked Sample: 301423

QC Batch: 92359
Prep Batch: 78339

Date Analyzed: 2012-06-20
QC Preparation: 2012-06-20

Analyzed By: AG
Prepared By: AG

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
| GRO | | 1 | 19.1 | mg/Kg | 1 | 20.0 | <1.22 | 96 | 28.2 - 157.2 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
| GRO | | 1 | 20.9 | mg/Kg | 1 | 20.0 | <1.22 | 104 | 28.2 - 157.2 | 9 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | 1.67 | 2.00 | mg/Kg | 1 | 2 | 84 | 100 | 75.5 - 122.3 |
| 4-Bromofluorobenzene (4-BFB) | 1.33 | 1.49 | mg/Kg | 1 | 2 | 66 | 74 | 77.9 - 122.4 |

Matrix Spike (MS-1) Spiked Sample: 301381

QC Batch: 92467
Prep Batch: 78417

Date Analyzed: 2012-06-25
QC Preparation: 2012-06-22

Analyzed By: AR
Prepared By: AR

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 33 of 41
Eddy Co., NM

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | | 3470 | mg/Kg | 5 | 2500 | 647 | 113 | 79.4 - 120.6 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|------------|--------------|
| Chloride | | | 3310 | mg/Kg | 5 | 2500 | 647 | 106 | 79.4 - 120.6 | 5 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 301391

QC Batch: 92468
Prep Batch: 78417

Date Analyzed: 2012-06-25
QC Preparation: 2012-06-22

Analyzed By: AR
Prepared By: AR

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | | 2430 | mg/Kg | 5 | 2500 | <19.2 | 97 | 79.4 - 120.6 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|------------|--------------|
| Chloride | | | 2630 | mg/Kg | 5 | 2500 | <19.2 | 105 | 79.4 - 120.6 | 8 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 301404

QC Batch: 92474
Prep Batch: 78417

Date Analyzed: 2012-06-25
QC Preparation: 2012-06-22

Analyzed By: AR
Prepared By: AR

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | | 2470 | mg/Kg | 5 | 2500 | 40.5 | 97 | 79.4 - 120.6 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|------------|--------------|
| Chloride | | | 2670 | mg/Kg | 5 | 2500 | 40.5 | 105 | 79.4 - 120.6 | 8 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 34 of 41
Eddy Co., NM

Matrix Spike (MS-1) Spiked Sample: 301423

QC Batch: 92475
Prep Batch: 78417

Date Analyzed: 2012-06-25
QC Preparation: 2012-06-22

Analyzed By: AR
Prepared By: AR

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | | 2560 | mg/Kg | 1 | 2500 | <3.85 | 102 | 79.4 - 120.6 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | | 2750 | mg/Kg | 1 | 2500 | <3.85 | 110 | 79.4 - 120.6 | 7 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 301399

QC Batch: 92580
Prep Batch: 78477

Date Analyzed: 2012-06-27
QC Preparation: 2012-06-27

Analyzed By: AR
Prepared By: AR

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | | 2950 | mg/Kg | 5 | 2500 | 362 | 104 | 79.4 - 120.6 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | | 3150 | mg/Kg | 5 | 2500 | 362 | 112 | 79.4 - 120.6 | 7 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (CCV-1)

QC Batch: 92297

Date Analyzed: 2012-06-19

Analyzed By: AG

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1 | mg/Kg | 250 | 273 | 109 | 80 - 120 | 2012-06-19 |

Standard (CCV-2)

QC Batch: 92297

Date Analyzed: 2012-06-19

Analyzed By: AG

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1 | mg/Kg | 250 | 265 | 106 | 80 - 120 | 2012-06-19 |

Standard (CCV-3)

QC Batch: 92297

Date Analyzed: 2012-06-19

Analyzed By: AG

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1 | mg/Kg | 250 | 238 | 95 | 80 - 120 | 2012-06-19 |

Standard (CCV-1)

QC Batch: 92316

Date Analyzed: 2012-06-19

Analyzed By: AG

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1 | mg/Kg | 1.00 | 1.20 | 120 | 80 - 120 | 2012-06-19 |

Standard (CCV-2)

QC Batch: 92316

Date Analyzed: 2012-06-19

Analyzed By: AG

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1 | mg/Kg | 1.00 | 0.856 | 86 | 80 - 120 | 2012-06-19 |

Standard (CCV-3)

QC Batch: 92316

Date Analyzed: 2012-06-19

Analyzed By: AG

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1 | mg/Kg | 1.00 | 0.811 | 81 | 80 - 120 | 2012-06-19 |

Standard (CCV-1)

QC Batch: 92352

Date Analyzed: 2012-06-20

Analyzed By: AG

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1 | mg/Kg | 250 | 296 | 118 | 80 - 120 | 2012-06-20 |

Standard (CCV-2)

QC Batch: 92352

Date Analyzed: 2012-06-20

Analyzed By: AG

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1 | mg/Kg | 250 | 276 | 110 | 80 - 120 | 2012-06-20 |

Standard (CCV-3)

QC Batch: 92352

Date Analyzed: 2012-06-20

Analyzed By: AG

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 39 of 41
Eddy Co., NM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | | mg/Kg | 100 | 98.2 | 98 | 85 - 115 | 2012-06-25 |

Standard (CCV-2)

QC Batch: 92474

Date Analyzed: 2012-06-25

Analyzed By: AR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | | mg/Kg | 100 | 102 | 102 | 85 - 115 | 2012-06-25 |

Standard (CCV-1)

QC Batch: 92475

Date Analyzed: 2012-06-25

Analyzed By: AR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | | mg/Kg | 100 | 101 | 101 | 85 - 115 | 2012-06-25 |

Standard (CCV-2)

QC Batch: 92475

Date Analyzed: 2012-06-25

Analyzed By: AR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | | mg/Kg | 100 | 99.3 | 99 | 85 - 115 | 2012-06-25 |

Standard (CCV-1)

QC Batch: 92580

Date Analyzed: 2012-06-27

Analyzed By: AR

Report Date: June 29, 2012
114-6401366

Work Order: 12061820
COG/SRO State Unit Com. #2

Page Number: 40 of 41
Eddy Co., NM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | | mg/Kg | 100 | 102 | 102 | 85 - 115 | 2012-06-27 |

Standard (CCV-2)

QC Batch: 92580

Date Analyzed: 2012-06-27

Analyzed By: AR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | | mg/Kg | 100 | 98.2 | 98 | 85 - 115 | 2012-06-27 |

Appendix

Report Definitions

| Name | Definition |
|------|----------------------------|
| MDL | Method Detection Limit |
| MQL | Minimum Quantitation Limit |
| SDL | Sample Detection Limit |

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |
| 1 | NELAP | T104704392-11-3 | Midland |

Standard Flags

| F | Description |
|-----|---|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |
| Qsr | Surrogate recovery outside of laboratory limits. |
| U | The analyte is not detected above the SDL |

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

12061820

Analysis Request of Chain of Custody Record



TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG SITE MANAGER: Eric Tawara

PROJECT NO.: 114-6401366 PROJECT NAME: COG / SRO St Unit Com # 2
Eddy Co, TX

| LAB I.D. NUMBER | DATE | TIME | MATRIX | COMP | GRAB | SAMPLE IDENTIFICATION | NUMBER OF CONTAINERS | FILTERED (Y/N) | PRESERVATIVE METHOD | | | | TELTEX 80215 | EPA 8015 MOD. TX1005 (Ext. to C35) | PAH 8270 | ICRA Metals Ag As Ba Cd Cr Pb Hg Se | TCLP Metals Ag As Ba Cd Vr Pd Hg Se | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol. 8240/8260/824 | GC/MS Semi. Vol. 8270/825 | PCB's 8080/808 | Pest. 808/808 | Chloride | Gamma Spec. | Alpha Beta (Air) | PLM (Asbestos) | Major Anions/Cations, pH, TDS | | |
|-----------------|------|------|--------|------|------|-------------------------|----------------------|----------------|---------------------|------|-----|------|--------------|------------------------------------|----------|-------------------------------------|-------------------------------------|----------------|---------------------|-----|--------------------------|---------------------------|----------------|---------------|----------|-------------|------------------|----------------|-------------------------------|--|--|
| | | | | | | | | | HCL | HNO3 | ICE | NONE | | | | | | | | | | | | | | | | | | | |
| 301372 | 6/13 | | S | | X | Trench-1 Surface (AH-1) | 1 | | | | | X | | | | | | | | | | | | | X | | | | | | |
| 373 | | | | | | Trench-1 2' (AH-1) | | | | | | | | | | | | | | | | | | X | | | | | | | |
| 374 | | | | | | Trench-1 4' (AH-1) | | | | | | | | | | | | | | | | | | X | | | | | | | |
| 375 | | | | | | Trench-1 6' (AH-1) | | | | | | | | | | | | | | | | | | X | | | | | | | |
| 376 | | | | | | Trench-1 8' (AH-1) | | | | | | | | | | | | | | | | | | X | | | | | | | |
| 377 | | | | | | Trench-1 10' (AH-1) | | | | | | | | | | | | | | | | | | X | | | | | | | |
| 378 | | | | | | Trench-1 12' (AH-1) | | | | | | | | | | | | | | | | | | X | | | | | | | |
| 379 | | | | | | Trench-2 Surface (AH-2) | | | | | | X | | | | | | | | | | | | X | | | | | | | |
| 380 | | | | | | Trench-2 2' (AH-2) | | | | | | | | | | | | | | | | | | X | | | | | | | |
| 381 | | | | | | Trench-2 4' (AH-2) | | | | | | | | | | | | | | | | | | X | | | | | | | |

RELINQUISHED BY: (Signature) [Signature] Date: 6/13/12 Time: 1600

RECEIVED BY: (Signature) [Signature] Date: 6/18/12 Time: 2:00 PM

RELINQUISHED BY: (Signature) [Signature] Date: 6/18/12 Time: 2:00 PM

RECEIVED BY: (Signature) [Signature] Date: _____ Time: _____

RELINQUISHED BY: (Signature) _____ Date: _____ Time: _____

RECEIVED BY: (Signature) _____ Date: _____ Time: _____

RECEIVING LABORATORY: TREX ADDRESS: _____ CITY: Midland STATE: TX ZIP: _____ CONTACT: Mende PHONE: _____ DATE: 6-18-20 TIME: 4:00

SAMPLED BY: (Print & Initial) [Signature] Date: 6/14/12 Time: 0850

SAMPLE SHIPPED BY: (Circle) FEDEX RAND DELIVERED BUS UPS AIRBILL #: _____ OTHER: _____

TETRA TECH CONTACT PERSON: Eric Tawara Results by: _____

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 4.6°C intact REMARKS: Two deeper samples H TPH needs 100 ml/kg Midland all

12061000

Analysis Request of Chain of Custody Record



TETRA TECH

1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

LOG

SITE MANAGER:

The Terrace

PROJECT NO.:

114-6401366

PROJECT NAME:

LOG/570 St Unit Rem #2
Edley Co, TX

LAB I.D. NUMBER

DATE

TIME

MATRIX
COMP
GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS
FILTERED (Y/N)

PRESERVATIVE METHOD

382

6/13

S

X

Trench-2 6' (AH-2)

1

X

383

Trench-2 8' (AH-2)

384

Trench-2 10' (AH-2)

385

Trench-2 12' (AH-2)

386

Trench-3 Surface (AH-4)

X

387

Trench-3 2' (AH-4)

388

Trench-3 4' (AH-4)

389

Trench-3 6' (AH-4)

390

Trench-3 8' (AH-4)

391

Trench-3 10' (AH-4)

RELINQUISHED BY: (Signature)

Date: 6/15/12

RECEIVED BY: (Signature)

Date: 6/18/12

SAMPLED BY: (Print & Initial)

Date: 6/14/12

RELINQUISHED BY: (Signature)

Time: 1:00 PM

RECEIVED BY: (Signature)

Time: 2:30 PM

Robert Garbbs Jr

Time: 08:55

RELINQUISHED BY: (Signature)

Date: 6/18/12

RECEIVED BY: (Signature)

Date: _____

SAMPLE SHIPPED BY: (Circle)

AIRBILL #: _____

RELINQUISHED BY: (Signature)

Date: 2:55 PM

RECEIVED BY: (Signature)

Time: _____

FEDEX

BUS

OTHER: _____

RELINQUISHED BY: (Signature)

Date: _____

RECEIVED BY: (Signature)

Date: _____

HAND DELIVERED

UPS

OTHER: _____

RECEIVING LABORATORY:

Texas

RECEIVED BY: (Signature)

TETRA TECH CONTACT PERSON:

Results by:

ADDRESS:

CITY: Midland STATE: TX ZIP: _____

CONTACT: Mccord PHONE: _____

DATE: 6-18-12 TIME: 14:00

Ilce

T Averez

RUSH Charges

Authorized:

Yes No

SAMPLE CONDITION WHEN RECEIVED:

4.6°C sealed

REMARKS:

Midland, TX

12061820

Analysis Request of Chain of Custody Record



TETRA TECH

1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: 806

SITE MANAGER: T. J. Towler

PROJECT NO.: 114-6461366

PROJECT NAME: 806/570 St Unit 602 #2
Building by JN

| LAB I.D. NUMBER | DATE | TIME | MATRIX | COMP. | GRAB | SAMPLE IDENTIFICATION | NUMBER OF CONTAINERS | FILTERED (Y/N) | PRESERVATIVE METHOD | | | | BTEX 8021B | TPH 8015 MOD. TX1005 (Ext. to C95) | PAH 8270 | RCRA Metals Ag As Ba Cd Cr Pb Hg Se | TCLP Metals Ag As Ba Cd Vr Pd Hg Se | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol. 8240/8260/624 | GC/MS Semi. Vol. 8270/625 | PCB's 8080/608 | Pest. 808/608 | Chloride | Gamma Spec. | Alpha Beta (Air) | PLM (Asbestos) | Major Anions/Cations, pH, TDS | | | |
|-----------------|------|------|--------|-------|------|-----------------------|----------------------|----------------|---------------------|------|-----|------|------------|------------------------------------|----------|-------------------------------------|-------------------------------------|----------------|---------------------|-----|--------------------------|---------------------------|----------------|---------------|----------|-------------|------------------|----------------|-------------------------------|--|--|--|
| | | | | | | | | | HCL | HNO3 | ICE | NONE | | | | | | | | | | | | | | | | | | | | |
| 402 | 4/13 | | X | X | | Track-5 4' (AH-9) | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 403 | | | | | | Track-5 6' (AH-9) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 404 | | | | | | Track-5 8' (AH-9) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 405 | | | | | | Track-5 10' (AH-9) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 406 | | | | | | Track-5 12' (AH-9) | | | | | | | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY: (Signature) [Signature] Date: 4/13/12 Time: 10:03
 RELINQUISHED BY: (Signature) [Signature] Date: 6/18/12 Time: 2:00 PM
 RELINQUISHED BY: (Signature) [Signature] Date: _____ Time: _____

RECEIVED BY: (Signature) [Signature] Date: 6/18/12 Time: _____
 RECEIVED BY: (Signature) [Signature] Date: _____ Time: _____
 RECEIVED BY: (Signature) [Signature] Date: _____ Time: _____

SAMPLED BY: (Print & Initial) Robert Grubbs Jr Date: 6/18/12 Time: 09:05

SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL #: _____
 HAND DELIVERED UPS OTHER: _____

RECEIVING LABORATORY: Texas
 ADDRESS: _____
 CITY: Midland STATE: TX ZIP: _____
 CONTACT: Monika PHONE: _____

RECEIVED BY: (Signature) [Signature]
 DATE: 6-18-12 TIME: 14:00

TETRA TECH CONTACT PERSON: [Signature]
Towler

Results by: _____
 RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 4.6°C intact

REMARKS: _____

Summary Report

Ike Tavarez
Tetra Tech
1910 N. Big Spring Street
Midland, TX 79705

Report Date: May 2, 2012

Work Order: 12042402



Project Location: Eddy Co., NM
Project Name: COG/SRO State Unit Com. #2
Project Number: 114-6401366

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|--------------|--------|------------|------------|---------------|
| 294981 | AH-1 0-0.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294982 | AH-2 0-0.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294983 | AH-3 0-0.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294984 | AH-4 0-0.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294985 | AH-5 0-0.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294986 | AH-6 0-0.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294987 | AH-7 0-0.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294988 | AH-8 0-0.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294989 | AH-9 0-0.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294990 | AH-10 0-0.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294991 | AH-11 0-1' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294992 | AH-11 1-1.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294993 | AH-11 2-2.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294994 | AH-11 3-3.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294995 | AH-11 4-4.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294996 | AH-11 5-5.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294997 | AH-12 0-1' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294998 | AH-12 1-1.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294999 | AH-12 2-2.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 295000 | AH-12 3-3.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 295001 | AH-12 4-4.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 295002 | AH-12 5-5.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 295003 | AH-13 0-1' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 295004 | AH-13 1-1.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 295005 | AH-13 2-2.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 295006 | AH-13 3-3.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |

| Sample - Field Code | BTEX | | | | TPH DRO - NEW DRO (mg/Kg) | TPH GRO GRO (mg/Kg) |
|-----------------------|--------------------|--------------------|-------------------------|-------------------|---------------------------------|---------------------------|
| | Benzene (mg/Kg) | Toluene (mg/Kg) | Ethylbenzene (mg/Kg) | Xylene (mg/Kg) | | |
| 294981 - AH-1 0-0.5' | | | | | 292 | <2.00 Qs |
| 294982 - AH-2 0-0.5' | | | | | 2990 | 511 Qs |
| 294983 - AH-3 0-0.5' | <1.00 | <1.00 | <1.00 | <1.00 | 15300 | 438 Qs |
| 294984 - AH-4 0-0.5' | 0.538 | 2.08 | 1.42 | 6.91 | 8940 | 752 Qs |
| 294985 - AH-5 0-0.5' | | | | | 3640 | 331 Qs |
| 294986 - AH-6 0-0.5' | | | | | 2360 Qs | 335 Qs |
| 294987 - AH-7 0-0.5' | <0.100 | 0.390 | 0.581 | 2.08 | 4600 Qs | 444 Qs |
| 294988 - AH-8 0-0.5' | 2.38 | 12.8 | 9.58 | 41.0 | 9000 Qs | 2460 Qs |
| 294989 - AH-9 0-0.5' | <0.200 | <0.200 | <0.200 | <0.200 | 4470 Qs | 99.1 Qs |
| 294990 - AH-10 0-0.5' | | | | | 1900 Qs | 58.4 Qs |
| 294991 - AH-11 0-1' | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <50.0 Qs | <2.00 Qs |
| 294997 - AH-12 0-1' | <0.0200 | <0.0200 | <0.0200 | <0.0200 | 133 Qs | <2.00 Qs |
| 294998 - AH-12 1-1.5' | | | | | 120 | <2.00 Qr,Qs |
| 294999 - AH-12 2-2.5' | | | | | <50.0 | <2.00 |
| 295003 - AH-13 0-1' | <0.0200 | 0.114 | 0.172 | 0.662 | <50.0 Qs | 114 Qs |
| 295004 - AH-13 1-1.5' | | | | | <50.0 | 3.50 Qr,Qs |

Sample: 294981 - AH-1 0-0.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 3570 | mg/Kg | 4 |

Sample: 294982 - AH-2 0-0.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 6080 | mg/Kg | 4 |

Sample: 294983 - AH-3 0-0.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 13000 | mg/Kg | 4 |

Sample: 294984 - AH-4 0-0.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 3460 | mg/Kg | 4 |

Sample: 294985 - AH-5 0-0.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 1790 | mg/Kg | 4 |

Sample: 294986 - AH-6 0-0.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 3020 | mg/Kg | 4 |

Sample: 294987 - AH-7 0-0.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 685 | mg/Kg | 4 |

Sample: 294988 - AH-8 0-0.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 1230 | mg/Kg | 4 |

Sample: 294989 - AH-9 0-0.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 12000 | mg/Kg | 4 |

Sample: 294990 - AH-10 0-0.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 403 | mg/Kg | 4 |

Sample: 294991 - AH-11 0-1'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 5640 | mg/Kg | 4 |

Sample: 294992 - AH-11 1-1.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 3090 | mg/Kg | 4 |

Sample: 294993 - AH-11 2-2.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 114 | mg/Kg | 4 |

Sample: 294994 - AH-11 3-3.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 69.5 | mg/Kg | 4 |

Sample: 294995 - AH-11 4-4.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 179 | mg/Kg | 4 |

Sample: 294996 - AH-11 5-5.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 39.7 | mg/Kg | 4 |

Sample: 294997 - AH-12 0-1'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 169 | mg/Kg | 4 |

Sample: 294998 - AH-12 1-1.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | <20.0 | mg/Kg | 4 |

Sample: 294999 - AH-12 2-2.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | <20.0 | mg/Kg | 4 |

Sample: 295000 - AH-12 3-3.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | <20.0 | mg/Kg | 4 |

Sample: 295001 - AH-12 4-4.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 104 | mg/Kg | 4 |

Sample: 295002 - AH-12 5-5.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 104 | mg/Kg | 4 |

Sample: 295003 - AH-13 0-1'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 6790 | mg/Kg | 4 |

Sample: 295004 - AH-13 1-1.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 5930 | mg/Kg | 4 |

Sample: 295005 - AH-13 2-2.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 64.6 | mg/Kg | 4 |

Sample: 295006 - AH-13 3-3.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 114 | mg/Kg | 4 |



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298
200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
E-Mail: tab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Ike Tavarez
Tetra Tech
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: May 2, 2012

Work Order: 12042402



Project Location: Eddy Co., NM
Project Name: COG/SRO State Unit Com. #2
Project Number: 114-6401366

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|--------------|--------|------------|------------|---------------|
| 294981 | AH-1 0-0.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294982 | AH-2 0-0.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294983 | AH-3 0-0.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294984 | AH-4 0-0.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294985 | AH-5 0-0.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294986 | AH-6 0-0.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294987 | AH-7 0-0.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294988 | AH-8 0-0.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294989 | AH-9 0-0.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294990 | AH-10 0-0.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294991 | AH-11 0-1' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294992 | AH-11 1-1.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294993 | AH-11 2-2.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294994 | AH-11 3-3.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294995 | AH-11 4-4.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294996 | AH-11 5-5.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294997 | AH-12 0-1' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 294998 | AH-12 1-1.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|--------------|--------|------------|------------|---------------|
| 294999 | AH-12 2-2.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 295000 | AH-12 3-3.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 295001 | AH-12 4-4.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 295002 | AH-12 5-5.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 295003 | AH-13 0-1' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 295004 | AH-13 1-1.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 295005 | AH-13 2-2.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |
| 295006 | AH-13 3-3.5' | soil | 2012-04-23 | 00:00 | 2012-04-23 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 52 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Report Contents

| | |
|-----------------------------------|-----------|
| Case Narrative | 6 |
| Analytical Report | 7 |
| Sample 294981 (AH-1 0-0.5') | 7 |
| Sample 294982 (AH-2 0-0.5') | 8 |
| Sample 294983 (AH-3 0-0.5') | 9 |
| Sample 294984 (AH-4 0-0.5') | 10 |
| Sample 294985 (AH-5 0-0.5') | 11 |
| Sample 294986 (AH-6 0-0.5') | 12 |
| Sample 294987 (AH-7 0-0.5') | 13 |
| Sample 294988 (AH-8 0-0.5') | 15 |
| Sample 294989 (AH-9 0-0.5') | 16 |
| Sample 294990 (AH-10 0-0.5') | 18 |
| Sample 294991 (AH-11 0-1') | 19 |
| Sample 294992 (AH-11 1-1.5') | 20 |
| Sample 294993 (AH-11 2-2.5') | 21 |
| Sample 294994 (AH-11 3-3.5') | 21 |
| Sample 294995 (AH-11 4-4.5') | 21 |
| Sample 294996 (AH-11 5-5.5') | 22 |
| Sample 294997 (AH-12 0-1') | 22 |
| Sample 294998 (AH-12 1-1.5') | 23 |
| Sample 294999 (AH-12 2-2.5') | 24 |
| Sample 295000 (AH-12 3-3.5') | 25 |
| Sample 295001 (AH-12 4-4.5') | 26 |
| Sample 295002 (AH-12 5-5.5') | 26 |
| Sample 295003 (AH-13 0-1') | 26 |
| Sample 295004 (AH-13 1-1.5') | 28 |
| Sample 295005 (AH-13 2-2.5') | 29 |
| Sample 295006 (AH-13 3-3.5') | 29 |
| Method Blanks | 30 |
| QC Batch 90552 - Method Blank (1) | 30 |
| QC Batch 90553 - Method Blank (1) | 30 |
| QC Batch 90566 - Method Blank (1) | 30 |
| QC Batch 90567 - Method Blank (1) | 31 |
| QC Batch 90586 - Method Blank (1) | 31 |
| QC Batch 90612 - Method Blank (1) | 31 |
| QC Batch 90661 - Method Blank (1) | 32 |
| QC Batch 90737 - Method Blank (1) | 32 |
| QC Batch 90738 - Method Blank (1) | 32 |
| QC Batch 90755 - Method Blank (1) | 33 |
| QC Batch 90780 - Method Blank (1) | 33 |
| Laboratory Control Spikes | 34 |
| QC Batch 90552 - LCS (1) | 34 |
| QC Batch 90553 - LCS (1) | 34 |

| | |
|------------------------------|-----------|
| QC Batch 90566 - LCS (1) | 34 |
| QC Batch 90567 - LCS (1) | 35 |
| QC Batch 90586 - LCS (1) | 36 |
| QC Batch 90612 - LCS (1) | 36 |
| QC Batch 90661 - LCS (1) | 37 |
| QC Batch 90737 - LCS (1) | 37 |
| QC Batch 90738 - LCS (1) | 37 |
| QC Batch 90755 - LCS (1) | 38 |
| QC Batch 90780 - LCS (1) | 38 |
| QC Batch 90552 - MS (1) | 39 |
| QC Batch 90553 - MS (1) | 39 |
| QC Batch 90566 - MS (1) | 40 |
| QC Batch 90567 - MS (1) | 40 |
| QC Batch 90586 - MS (1) | 41 |
| QC Batch 90612 - MS (1) | 41 |
| QC Batch 90661 - MS (1) | 42 |
| QC Batch 90737 - MS (1) | 42 |
| QC Batch 90738 - MS (1) | 43 |
| QC Batch 90755 - MS (1) | 43 |
| QC Batch 90780 - MS (1) | 44 |
| Calibration Standards | 45 |
| QC Batch 90552 - CCV (2) | 45 |
| QC Batch 90552 - CCV (3) | 45 |
| QC Batch 90552 - CCV (4) | 45 |
| QC Batch 90553 - CCV (1) | 45 |
| QC Batch 90553 - CCV (2) | 45 |
| QC Batch 90566 - CCV (1) | 46 |
| QC Batch 90566 - CCV (2) | 46 |
| QC Batch 90566 - CCV (3) | 46 |
| QC Batch 90567 - CCV (1) | 47 |
| QC Batch 90567 - CCV (2) | 47 |
| QC Batch 90567 - CCV (3) | 47 |
| QC Batch 90586 - CCV (2) | 47 |
| QC Batch 90586 - CCV (3) | 48 |
| QC Batch 90612 - CCV (1) | 48 |
| QC Batch 90612 - CCV (2) | 48 |
| QC Batch 90661 - CCV (1) | 48 |
| QC Batch 90661 - CCV (2) | 49 |
| QC Batch 90737 - CCV (1) | 49 |
| QC Batch 90737 - CCV (2) | 49 |
| QC Batch 90738 - CCV (1) | 49 |
| QC Batch 90738 - CCV (2) | 50 |
| QC Batch 90755 - CCV (1) | 50 |
| QC Batch 90755 - CCV (2) | 50 |
| QC Batch 90780 - CCV (1) | 50 |
| QC Batch 90780 - CCV (2) | 51 |

Appendix **52**
Report Definitions 52
Laboratory Certifications 52
Standard Flags 52
Attachments 52

Case Narrative

Samples for project COG/SRO State Unit Com. #2 were received by TraceAnalysis, Inc. on 2012-04-23 and assigned to work order 12042402. Samples for work order 12042402 were received intact at a temperature of 3.9 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|----------------------|--------------|------------|---------------------|----------|---------------------|
| BTEX | S 8021B | 76841 | 2012-04-24 at 10:30 | 90566 | 2012-04-24 at 10:23 |
| Chloride (Titration) | SM 4500-Cl B | 76915 | 2012-04-27 at 09:48 | 90661 | 2012-04-27 at 14:53 |
| Chloride (Titration) | SM 4500-Cl B | 76915 | 2012-04-27 at 09:48 | 90737 | 2012-04-30 at 10:13 |
| Chloride (Titration) | SM 4500-Cl B | 76915 | 2012-04-27 at 09:48 | 90738 | 2012-04-30 at 10:14 |
| TPH DRO - NEW | S 8015 D | 76815 | 2012-04-24 at 13:11 | 90552 | 2012-04-24 at 14:56 |
| TPH DRO - NEW | S 8015 D | 76815 | 2012-04-24 at 13:11 | 90553 | 2012-04-24 at 14:58 |
| TPH DRO - NEW | S 8015 D | 76854 | 2012-04-25 at 13:34 | 90586 | 2012-04-25 at 13:36 |
| TPH DRO - NEW | S 8015 D | 76989 | 2012-05-01 at 13:09 | 90755 | 2012-05-01 at 13:10 |
| TPH GRO | S 8015 D | 76841 | 2012-04-24 at 10:30 | 90567 | 2012-04-24 at 10:51 |
| TPH GRO | S 8015 D | 76879 | 2012-04-25 at 10:55 | 90612 | 2012-04-25 at 11:39 |
| TPH GRO | S 8015 D | 77014 | 2012-05-01 at 10:45 | 90780 | 2012-05-01 at 12:10 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 12042402 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 294981 - AH-1 0-0.5'

| | | |
|--------------------------------|---------------------------------|------------------|
| Laboratory: Midland | Analytical Method: SM 4500-CI B | Prep Method: N/A |
| Analysis: Chloride (Titration) | Date Analyzed: 2012-04-27 | Analyzed By: AR |
| QC Batch: 90661 | Sample Preparation: 2012-04-27 | Prepared By: AR |
| Prep Batch: 76915 | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 3570 | mg/Kg | 50 | 4.00 |

Sample: 294981 - AH-1 0-0.5'

| | | |
|-------------------------|--------------------------------|------------------|
| Laboratory: Midland | Analytical Method: S 8015 D | Prep Method: N/A |
| Analysis: TPH DRO - NEW | Date Analyzed: 2012-04-24 | Analyzed By: DA |
| QC Batch: 90552 | Sample Preparation: 2012-04-24 | Prepared By: DA |
| Prep Batch: 76815 | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | | 1 | 292 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|-----------------|-----------------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | Q _{sr} | Q _{sr} | 198 | mg/Kg | 1 | 100 | 198 | 49.3 - 157.5 |

Sample: 294981 - AH-1 0-0.5'

| | | |
|---------------------|--------------------------------|---------------------|
| Laboratory: Midland | Analytical Method: S 8015 D | Prep Method: S 5035 |
| Analysis: TPH GRO | Date Analyzed: 2012-04-24 | Analyzed By: tc |
| QC Batch: 90567 | Sample Preparation: 2012-04-24 | Prepared By: tc |
| Prep Batch: 76841 | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|-------------------|------|--------------|-------|----------|------|
| GRO | Q _{sr,U} | 1 | <2.00 | mg/Kg | 1 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 2.06 | mg/Kg | 1 | 2.00 | 103 | 58.5 - 155.1 |

continued ...

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 8 of 52
Eddy Co., NM

sample continued ...

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| 4-Bromofluorobenzene (4-BFB) | | | 1.84 | mg/Kg | 1 | 2.00 | 92 | 45.1 - 162.2 |

Sample: 294982 - AH-2 0-0.5'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 90661 Date Analyzed: 2012-04-27 Analyzed By: AR
Prep Batch: 76915 Sample Preparation: 2012-04-27 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 6080 | mg/Kg | 50 | 4.00 |

Sample: 294982 - AH-2 0-0.5'

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 90552 Date Analyzed: 2012-04-24 Analyzed By: DA
Prep Batch: 76815 Sample Preparation: 2012-04-24 Prepared By: DA

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | | 1 | 2990 | mg/Kg | 5 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|-----------------|-----------------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | Q _{sr} | Q _{sr} | 440 | mg/Kg | 5 | 100 | 440 | 49.3 - 157.5 |

Sample: 294982 - AH-2 0-0.5'

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 90567 Date Analyzed: 2012-04-24 Analyzed By: tc
Prep Batch: 76841 Sample Preparation: 2012-04-24 Prepared By: tc

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|----------------|------|--------------|-------|----------|------|
| GRO | Q _s | 1 | 511 | mg/Kg | 20 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 20.9 | mg/Kg | 20 | 20.0 | 104 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | | | 19.4 | mg/Kg | 20 | 20.0 | 97 | 45.1 - 162.2 |

Sample: 294983 - AH-3 0-0.5'

Laboratory: Midland
Analysis: BTEX
QC Batch: 90566
Prep Batch: 76841

Analytical Method: S 8021B
Date Analyzed: 2012-04-24
Sample Preparation: 2012-04-24

Prep Method: S 5035
Analyzed By: tc
Prepared By: tc

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|-----------|-------|----------|--------|
| Benzene | u | 1 | <1.00 | mg/Kg | 50 | 0.0200 |
| Toluene | u | 1 | <1.00 | mg/Kg | 50 | 0.0200 |
| Ethylbenzene | u | 1 | <1.00 | mg/Kg | 50 | 0.0200 |
| Xylene | u | 1 | <1.00 | mg/Kg | 50 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 43.1 | mg/Kg | 50 | 50.0 | 86 | 75 - 135.4 |
| 4-Bromofluorobenzene (4-BFB) | | | 42.4 | mg/Kg | 50 | 50.0 | 85 | 63.6 - 158.9 |

Sample: 294983 - AH-3 0-0.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 90661
Prep Batch: 76915

Analytical Method: SM 4500-Cl B
Date Analyzed: 2012-04-27
Sample Preparation: 2012-04-27

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|-----------|-------|----------|------|
| Chloride | | | 13000 | mg/Kg | 50 | 4.00 |

Sample: 294983 - AH-3 0-0.5'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 90552
Prep Batch: 76815

Analytical Method: S 8015 D
Date Analyzed: 2012-04-24
Sample Preparation: 2012-04-24

Prep Method: N/A
Analyzed By: DA
Prepared By: DA

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 10 of 52
Eddy Co., NM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | | 1 | 15300 | mg/Kg | 5 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|-----------------|-----------------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | Q _{sr} | Q _{sr} | 2310 | mg/Kg | 5 | 100 | 2310 | 49.3 - 157.5 |

Sample: 294983 - AH-3 0-0.5'

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 90567 Date Analyzed: 2012-04-24 Analyzed By: tc
 Prep Batch: 76841 Sample Preparation: 2012-04-24 Prepared By: tc

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|-----------------|------|--------------|-------|----------|------|
| GRO | Q _{sr} | 1 | 438 | mg/Kg | 50 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 46.0 | mg/Kg | 50 | 50.0 | 92 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | | | 42.0 | mg/Kg | 50 | 50.0 | 84 | 45.1 - 162.2 |

Sample: 294984 - AH-4 0-0.5'

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
 QC Batch: 90566 Date Analyzed: 2012-04-24 Analyzed By: tc
 Prep Batch: 76841 Sample Preparation: 2012-04-24 Prepared By: tc

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|--------|
| Benzene | | 1 | 0.538 | mg/Kg | 10 | 0.0200 |
| Toluene | | 1 | 2.08 | mg/Kg | 10 | 0.0200 |
| Ethylbenzene | | 1 | 1.42 | mg/Kg | 10 | 0.0200 |
| Xylene | | 1 | 6.91 | mg/Kg | 10 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 10.7 | mg/Kg | 10 | 10.0 | 107 | 75 - 135.4 |
| 4-Bromofluorobenzene (4-BFB) | | | 11.0 | mg/Kg | 10 | 10.0 | 110 | 63.6 - 158.9 |

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 11 of 52
Eddy Co., NM

Sample: 294984 - AH-4 0-0.5'

| | | |
|--------------------------------|---------------------------------|------------------|
| Laboratory: Midland | Analytical Method: SM 4500-C1 B | Prep Method: N/A |
| Analysis: Chloride (Titration) | Date Analyzed: 2012-04-27 | Analyzed By: AR |
| QC Batch: 90661 | Sample Preparation: 2012-04-27 | Prepared By: AR |
| Prep Batch: 76915 | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 3460 | mg/Kg | 50 | 4.00 |

Sample: 294984 - AH-4 0-0.5'

| | | |
|-------------------------|--------------------------------|------------------|
| Laboratory: Midland | Analytical Method: S 8015 D | Prep Method: N/A |
| Analysis: TPH DRO - NEW | Date Analyzed: 2012-04-24 | Analyzed By: DA |
| QC Batch: 90552 | Sample Preparation: 2012-04-24 | Prepared By: DA |
| Prep Batch: 76815 | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | | 1 | 8940 | mg/Kg | 5 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|-----------------|-----------------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | Q _{SR} | Q _{SR} | 1320 | mg/Kg | 5 | 100 | 1320 | 49.3 - 157.5 |

Sample: 294984 - AH-4 0-0.5'

| | | |
|---------------------|--------------------------------|---------------------|
| Laboratory: Midland | Analytical Method: S 8015 D | Prep Method: S 5035 |
| Analysis: TPH GRO | Date Analyzed: 2012-04-24 | Analyzed By: tc |
| QC Batch: 90567 | Sample Preparation: 2012-04-24 | Prepared By: tc |
| Prep Batch: 76841 | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|----------------|------|--------------|-------|----------|------|
| GRO | Q _S | 1 | 752 | mg/Kg | 10 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 10.9 | mg/Kg | 10 | 10.0 | 109 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | | | 12.1 | mg/Kg | 10 | 10.0 | 121 | 45.1 - 162.2 |

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 12 of 52
Eddy Co., NM

Sample: 294985 - AH-5 0-0.5'

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 90661 Date Analyzed: 2012-04-27 Analyzed By: AR
 Prep Batch: 76915 Sample Preparation: 2012-04-27 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 1790 | mg/Kg | 50 | 4.00 |

Sample: 294985 - AH-5 0-0.5'

Laboratory: Midland
 Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 90552 Date Analyzed: 2012-04-24 Analyzed By: DA
 Prep Batch: 76815 Sample Preparation: 2012-04-24 Prepared By: DA

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | | 1 | 3640 | mg/Kg | 5 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | Qsr | Qsr | 642 | mg/Kg | 5 | 100 | 642 | 49.3 - 157.5 |

Sample: 294985 - AH-5 0-0.5'

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 90567 Date Analyzed: 2012-04-24 Analyzed By: tc
 Prep Batch: 76841 Sample Preparation: 2012-04-24 Prepared By: tc

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | Qs | 1 | 331 | mg/Kg | 1 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 2.12 | mg/Kg | 1 | 2.00 | 106 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | | | 2.67 | mg/Kg | 1 | 2.00 | 134 | 45.1 - 162.2 |

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 13 of 52
Eddy Co., NM

Sample: 294986 - AH-6 0-0.5'

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 90661 Date Analyzed: 2012-04-27 Analyzed By: AR
 Prep Batch: 76915 Sample Preparation: 2012-04-27 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 3020 | mg/Kg | 100 | 4.00 |

Sample: 294986 - AH-6 0-0.5'

Laboratory: Midland
 Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 90553 Date Analyzed: 2012-04-24 Analyzed By: DA
 Prep Batch: 76815 Sample Preparation: 2012-04-24 Prepared By: DA

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | Qs | 1 | 2360 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | Qs | Qs | 364 | mg/Kg | 1 | 100 | 364 | 49.3 - 157.5 |

Sample: 294986 - AH-6 0-0.5'

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 90567 Date Analyzed: 2012-04-24 Analyzed By: tc
 Prep Batch: 76841 Sample Preparation: 2012-04-24 Prepared By: tc

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | Qs | 1 | 335 | mg/Kg | 5 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 5.26 | mg/Kg | 5 | 5.00 | 105 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | | | 5.32 | mg/Kg | 5 | 5.00 | 106 | 45.1 - 162.2 |

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 14 of 52
Eddy Co., NM

Sample: 294987 - AH-7 0-0.5'

Laboratory: Midland
Analysis: BTEX
QC Batch: 90566
Prep Batch: 76841

Analytical Method: S 8021B
Date Analyzed: 2012-04-24
Sample Preparation: 2012-04-24

Prep Method: S 5035
Analyzed By: tc
Prepared By: tc

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|--------|
| Benzene | u | 1 | <0.100 | mg/Kg | 5 | 0.0200 |
| Toluene | | 1 | 0.390 | mg/Kg | 5 | 0.0200 |
| Ethylbenzene | | 1 | 0.581 | mg/Kg | 5 | 0.0200 |
| Xylene | | 1 | 2.08 | mg/Kg | 5 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 4.49 | mg/Kg | 5 | 5.00 | 90 | 75 - 135.4 |
| 4-Bromofluorobenzene (4-BFB) | | | 5.02 | mg/Kg | 5 | 5.00 | 100 | 63.6 - 158.9 |

Sample: 294987 - AH-7 0-0.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 90661
Prep Batch: 76915

Analytical Method: SM 4500-Cl B
Date Analyzed: 2012-04-27
Sample Preparation: 2012-04-27

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 685 | mg/Kg | 50 | 4.00 |

Sample: 294987 - AH-7 0-0.5'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 90553
Prep Batch: 76815

Analytical Method: S 8015 D
Date Analyzed: 2012-04-24
Sample Preparation: 2012-04-24

Prep Method: N/A
Analyzed By: DA
Prepared By: DA

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | Q* | 1 | 4600 | mg/Kg | 5 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | Q* | Q* | 747 | mg/Kg | 5 | 100 | 747 | 49.3 - 157.5 |

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 15 of 52
Eddy Co., NM

Sample: 294987 - AH-7 0-0.5'

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 90567 Date Analyzed: 2012-04-24 Analyzed By: tc
 Prep Batch: 76841 Sample Preparation: 2012-04-24 Prepared By: tc

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | Q* | 1 | 444 | mg/Kg | 5 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 4.64 | mg/Kg | 5 | 5.00 | 93 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | | | 5.59 | mg/Kg | 5 | 5.00 | 112 | 45.1 - 162.2 |

Sample: 294988 - AH-8 0-0.5'

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
 QC Batch: 90566 Date Analyzed: 2012-04-24 Analyzed By: tc
 Prep Batch: 76841 Sample Preparation: 2012-04-24 Prepared By: tc

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|--------|
| Benzene | | 1 | 2.38 | mg/Kg | 50 | 0.0200 |
| Toluene | | 1 | 12.8 | mg/Kg | 50 | 0.0200 |
| Ethylbenzene | | 1 | 9.58 | mg/Kg | 50 | 0.0200 |
| Xylene | | 1 | 41.0 | mg/Kg | 50 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 46.8 | mg/Kg | 50 | 50.0 | 94 | 75 - 135.4 |
| 4-Bromofluorobenzene (4-BFB) | | | 50.1 | mg/Kg | 50 | 50.0 | 100 | 63.6 - 158.9 |

Sample: 294988 - AH-8 0-0.5'

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 90661 Date Analyzed: 2012-04-27 Analyzed By: AR
 Prep Batch: 76915 Sample Preparation: 2012-04-27 Prepared By: AR

continued ...

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 16 of 52
Eddy Co., NM

sample 294988 continued ...

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 1230 | mg/Kg | 50 | 4.00 |

Sample: 294988 - AH-8 0-0.5'

Laboratory: Midland
 Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 90553 Date Analyzed: 2012-04-24 Analyzed By: DA
 Prep Batch: 76815 Sample Preparation: 2012-04-24 Prepared By: DA

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | Qc | 1 | 9000 | mg/Kg | 5 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | Qc | Qc | 1070 | mg/Kg | 5 | 100 | 1070 | 49.3 - 157.5 |

Sample: 294988 - AH-8 0-0.5'

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 90567 Date Analyzed: 2012-04-24 Analyzed By: tc
 Prep Batch: 76841 Sample Preparation: 2012-04-24 Prepared By: tc

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | Qc | 1 | 2460 | mg/Kg | 50 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 48.4 | mg/Kg | 50 | 50.0 | 97 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | | | 52.8 | mg/Kg | 50 | 50.0 | 106 | 45.1 - 162.2 |

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 17 of 52
Eddy Co., NM

Sample: 294989 - AH-9 0-0.5'

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
 QC Batch: 90566 Date Analyzed: 2012-04-24 Analyzed By: tc
 Prep Batch: 76841 Sample Preparation: 2012-04-24 Prepared By: tc

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|--------|
| Benzene | u | 1 | <0.200 | mg/Kg | 10 | 0.0200 |
| Toluene | u | 1 | <0.200 | mg/Kg | 10 | 0.0200 |
| Ethylbenzene | u | 1 | <0.200 | mg/Kg | 10 | 0.0200 |
| Xylene | u | 1 | <0.200 | mg/Kg | 10 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 9.89 | mg/Kg | 10 | 10.0 | 99 | 75 - 135.4 |
| 4-Bromofluorobenzene (4-BFB) | | | 9.99 | mg/Kg | 10 | 10.0 | 100 | 63.6 - 158.9 |

Sample: 294989 - AH-9 0-0.5'

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 90661 Date Analyzed: 2012-04-27 Analyzed By: AR
 Prep Batch: 76915 Sample Preparation: 2012-04-27 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 12000 | mg/Kg | 100 | 4.00 |

Sample: 294989 - AH-9 0-0.5'

Laboratory: Midland
 Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 90553 Date Analyzed: 2012-04-24 Analyzed By: DA
 Prep Batch: 76815 Sample Preparation: 2012-04-24 Prepared By: DA

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | qs | 1 | 4470 | mg/Kg | 5 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | qs | qs | 1000 | mg/Kg | 5 | 100 | 1000 | 49.3 - 157.5 |

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 18 of 52
Eddy Co., NM

Sample: 294989 - AH-9 0-0.5'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 90567
Prep Batch: 76841

Analytical Method: S 8015 D
Date Analyzed: 2012-04-24
Sample Preparation: 2012-04-24

Prep Method: S 5035
Analyzed By: tc
Prepared By: tc

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | Qs | 1 | 99.1 | mg/Kg | 10 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 10.6 | mg/Kg | 10 | 10.0 | 106 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | | | 9.59 | mg/Kg | 10 | 10.0 | 96 | 45.1 - 162.2 |

Sample: 294990 - AH-10 0-0.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 90661
Prep Batch: 76915

Analytical Method: SM 4500-Cl B
Date Analyzed: 2012-04-27
Sample Preparation: 2012-04-27

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 403 | mg/Kg | 50 | 4.00 |

Sample: 294990 - AH-10 0-0.5'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 90553
Prep Batch: 76815

Analytical Method: S 8015 D
Date Analyzed: 2012-04-24
Sample Preparation: 2012-04-24

Prep Method: N/A
Analyzed By: DA
Prepared By: DA

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | Qs | 1 | 1900 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | Qs | Qs | 351 | mg/Kg | 1 | 100 | 351 | 49.3 - 157.5 |

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 19 of 52
Eddy Co., NM

Sample: 294990 - AH-10 0-0.5'

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 90567 Date Analyzed: 2012-04-24 Analyzed By: tc
 Prep Batch: 76841 Sample Preparation: 2012-04-24 Prepared By: tc

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | Q* | 1 | 58.4 | mg/Kg | 1 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 2.23 | mg/Kg | 1 | 2.00 | 112 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.99 | mg/Kg | 1 | 2.00 | 100 | 45.1 - 162.2 |

Sample: 294991 - AH-11 0-1'

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
 QC Batch: 90566 Date Analyzed: 2012-04-24 Analyzed By: tc
 Prep Batch: 76841 Sample Preparation: 2012-04-24 Prepared By: tc

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|--------|
| Benzene | u | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | u | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | u | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | u | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 2.11 | mg/Kg | 1 | 2.00 | 106 | 75 - 135.4 |
| 4-Bromofluorobenzene (4-BFB) | | | 2.10 | mg/Kg | 1 | 2.00 | 105 | 63.6 - 158.9 |

Sample: 294991 - AH-11 0-1'

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 90737 Date Analyzed: 2012-04-30 Analyzed By: AR
 Prep Batch: 76915 Sample Preparation: 2012-04-27 Prepared By: AR

continued ...

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 20 of 52
Eddy Co., NM

sample 294991 continued ...

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 5640 | mg/Kg | 10 | 4.00 |

Sample: 294991 - AH-11 0-1'

Laboratory: Midland
 Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 90553 Date Analyzed: 2012-04-24 Analyzed By: DA
 Prep Batch: 76815 Sample Preparation: 2012-04-24 Prepared By: DA

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | Qs | 1 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 145 | mg/Kg | 1 | 100 | 145 | 49.3 - 157.5 |

Sample: 294991 - AH-11 0-1'

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 90567 Date Analyzed: 2012-04-24 Analyzed By: tc
 Prep Batch: 76841 Sample Preparation: 2012-04-24 Prepared By: tc

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | Qs | 1 | <2.00 | mg/Kg | 1 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 2.22 | mg/Kg | 1 | 2.00 | 111 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | | | 2.02 | mg/Kg | 1 | 2.00 | 101 | 45.1 - 162.2 |

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 21 of 52
Eddy Co., NM

Sample: 294992 - AH-11 1-1.5'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 90737 Date Analyzed: 2012-04-30 Analyzed By: AR
Prep Batch: 76915 Sample Preparation: 2012-04-27 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 3090 | mg/Kg | 10 | 4.00 |

Sample: 294993 - AH-11 2-2.5'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 90737 Date Analyzed: 2012-04-30 Analyzed By: AR
Prep Batch: 76915 Sample Preparation: 2012-04-27 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 114 | mg/Kg | 5 | 4.00 |

Sample: 294994 - AH-11 3-3.5'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 90737 Date Analyzed: 2012-04-30 Analyzed By: AR
Prep Batch: 76915 Sample Preparation: 2012-04-27 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 69.5 | mg/Kg | 5 | 4.00 |

Sample: 294995 - AH-11 4-4.5'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 90737 Date Analyzed: 2012-04-30 Analyzed By: AR
Prep Batch: 76915 Sample Preparation: 2012-04-27 Prepared By: AR

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 22 of 52
Eddy Co., NM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 179 | mg/Kg | 5 | 4.00 |

Sample: 294996 - AH-11 5-5.5'

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 90737 Date Analyzed: 2012-04-30 Analyzed By: AR
 Prep Batch: 76915 Sample Preparation: 2012-04-27 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 39.7 | mg/Kg | 5 | 4.00 |

Sample: 294997 - AH-12 0-1'

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
 QC Batch: 90566 Date Analyzed: 2012-04-24 Analyzed By: tc
 Prep Batch: 76841 Sample Preparation: 2012-04-24 Prepared By: tc

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|--------|
| Benzene | u | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | u | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | u | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | u | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.89 | mg/Kg | 1 | 2.00 | 94 | 75 - 135.4 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.85 | mg/Kg | 1 | 2.00 | 92 | 63.6 - 158.9 |

Sample: 294997 - AH-12 0-1'

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 90737 Date Analyzed: 2012-04-30 Analyzed By: AR
 Prep Batch: 76915 Sample Preparation: 2012-04-27 Prepared By: AR

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 23 of 52
Eddy Co., NM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 169 | mg/Kg | 5 | 4.00 |

Sample: 294997 - AH-12 0-1'

Laboratory: Midland
 Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 90553 Date Analyzed: 2012-04-24 Analyzed By: DA
 Prep Batch: 76815 Sample Preparation: 2012-04-24 Prepared By: DA

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | Qs | 1 | 133 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 154 | mg/Kg | 1 | 100 | 154 | 49.3 - 157.5 |

Sample: 294997 - AH-12 0-1'

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 90567 Date Analyzed: 2012-04-24 Analyzed By: tc
 Prep Batch: 76841 Sample Preparation: 2012-04-24 Prepared By: tc

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | Qs,U | 1 | <2.00 | mg/Kg | 1 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 2.00 | mg/Kg | 1 | 2.00 | 100 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.80 | mg/Kg | 1 | 2.00 | 90 | 45.1 - 162.2 |

Sample: 294998 - AH-12 1-1.5'

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 90737 Date Analyzed: 2012-04-30 Analyzed By: AR
 Prep Batch: 76915 Sample Preparation: 2012-04-27 Prepared By: AR

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 24 of 52
Eddy Co., NM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | u | | <20.0 | mg/Kg | 5 | 4.00 |

Sample: 294998 - AH-12 1-1.5'

Laboratory: Midland
 Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 90586 Date Analyzed: 2012-04-25 Analyzed By: DA
 Prep Batch: 76854 Sample Preparation: 2012-04-25 Prepared By: DA

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | | 1 | 120 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 141 | mg/Kg | 1 | 100 | 141 | 49.3 - 157.5 |

Sample: 294998 - AH-12 1-1.5'

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 90612 Date Analyzed: 2012-04-25 Analyzed By: tc
 Prep Batch: 76879 Sample Preparation: 2012-04-25 Prepared By: tc

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|---------|------|--------------|-------|----------|------|
| GRO | Qr,Qs,U | 1 | <2.00 | mg/Kg | 1 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|--------------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TF ³ T) | | | 2.32 | mg/Kg | 1 | 2.00 | 116 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | | | 2.06 | mg/Kg | 1 | 2.00 | 103 | 45.1 - 162.2 |

Sample: 294999 - AH-12 2-2.5'

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 90737 Date Analyzed: 2012-04-30 Analyzed By: AR
 Prep Batch: 76915 Sample Preparation: 2012-04-27 Prepared By: AR

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 25 of 52
Eddy Co., NM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | u | | <20.0 | mg/Kg | 5 | 4.00 |

Sample: 294999 - AH-12 2-2.5'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 90755
Prep Batch: 76989

Analytical Method: S 8015 D
Date Analyzed: 2012-05-01
Sample Preparation: 2012-05-01

Prep Method: N/A
Analyzed By: DA
Prepared By: DA

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | u | 1 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 132 | mg/Kg | 1 | 100 | 132 | 49.3 - 157.5 |

Sample: 294999 - AH-12 2-2.5'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 90780
Prep Batch: 77014

Analytical Method: S 8015 D
Date Analyzed: 2012-05-01
Sample Preparation: 2012-05-01

Prep Method: S 5035
Analyzed By: tc
Prepared By: tc

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | u | 1 | <2.00 | mg/Kg | 1 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.98 | mg/Kg | 1 | 2.00 | 99 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.73 | mg/Kg | 1 | 2.00 | 86 | 45.1 - 162.2 |

Sample: 295000 - AH-12 3-3.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 90737
Prep Batch: 76915

Analytical Method: SM 4500-C1 B
Date Analyzed: 2012-04-30
Sample Preparation: 2012-04-27

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 26 of 52
Eddy Co., NM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | u | | <20.0 | mg/Kg | 5 | 4.00 |

Sample: 295001 - AH-12 4-4.5'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 90738 Date Analyzed: 2012-04-30 Analyzed By: AR
Prep Batch: 76915 Sample Preparation: 2012-04-27 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 104 | mg/Kg | 5 | 4.00 |

Sample: 295002 - AH-12 5-5.5'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 90738 Date Analyzed: 2012-04-30 Analyzed By: AR
Prep Batch: 76915 Sample Preparation: 2012-04-27 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 104 | mg/Kg | 5 | 4.00 |

Sample: 295003 - AH-13 0-1'

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 90566 Date Analyzed: 2012-04-24 Analyzed By: tc
Prep Batch: 76841 Sample Preparation: 2012-04-24 Prepared By: tc

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|--------|
| Benzene | u | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | | 1 | 0.114 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | | 1 | 0.172 | mg/Kg | 1 | 0.0200 |

continued ...

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 27 of 52
Eddy Co., NM

sample 295003 continued ...

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|--------|
| Xylene | | 1 | 0.662 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 2.10 | mg/Kg | 1 | 2.00 | 105 | 75 - 135.4 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.96 | mg/Kg | 1 | 2.00 | 98 | 63.6 - 158.9 |

Sample: 295003 - AH-13 0-1'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 90738 Date Analyzed: 2012-04-30 Analyzed By: AR
Prep Batch: 76915 Sample Preparation: 2012-04-27 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 6790 | mg/Kg | 10 | 4.00 |

Sample: 295003 - AH-13 0-1'

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 90553 Date Analyzed: 2012-04-24 Analyzed By: DA
Prep Batch: 76815 Sample Preparation: 2012-04-24 Prepared By: DA

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | Qs | 1 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 134 | mg/Kg | 1 | 100 | 134 | 49.3 - 157.5 |

Sample: 295003 - AH-13 0-1'

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 90567 Date Analyzed: 2012-04-24 Analyzed By: tc
Prep Batch: 76841 Sample Preparation: 2012-04-24 Prepared By: tc

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 28 of 52
Eddy Co., NM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | Q* | 1 | 114 | mg/Kg | 1 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 2.00 | mg/Kg | 1 | 2.00 | 100 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | | | 2.26 | mg/Kg | 1 | 2.00 | 113 | 45.1 - 162.2 |

Sample: 295004 - AH-13 1-1.5'

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-C1 B Prep Method: N/A
 QC Batch: 90738 Date Analyzed: 2012-04-30 Analyzed By: AR
 Prep Batch: 76915 Sample Preparation: 2012-04-27 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 5930 | mg/Kg | 10 | 4.00 |

Sample: 295004 - AH-13 1-1.5'

Laboratory: Midland
 Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 90586 Date Analyzed: 2012-04-25 Analyzed By: DA
 Prep Batch: 76854 Sample Preparation: 2012-04-25 Prepared By: DA

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | U | 1 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 110 | mg/Kg | 1 | 100 | 110 | 49.3 - 157.5 |

Sample: 295004 - AH-13 1-1.5'

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 90612 Date Analyzed: 2012-04-25 Analyzed By: tc
 Prep Batch: 76879 Sample Preparation: 2012-04-25 Prepared By: tc

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 29 of 52
Eddy Co., NM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|--------|------|--------------|-------|----------|------|
| GRO | Gr, Qc | 1 | 3.50 | mg/Kg | 1 | 2.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 2.61 | mg/Kg | 1 | 2.00 | 130 | 58.5 - 155.1 |
| 4-Bromofluorobenzene (4-BFB) | | | 2.34 | mg/Kg | 1 | 2.00 | 117 | 45.1 - 162.2 |

Sample: 295005 - AH-13 2-2.5'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 90738 Date Analyzed: 2012-04-30 Analyzed By: AR
Prep Batch: 76915 Sample Preparation: 2012-04-27 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 64.6 | mg/Kg | 5 | 4.00 |

Sample: 295006 - AH-13 3-3.5'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 90738 Date Analyzed: 2012-04-30 Analyzed By: AR
Prep Batch: 76915 Sample Preparation: 2012-04-27 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 114 | mg/Kg | 5 | 4.00 |

Method Blanks

Method Blank (1) QC Batch: 90552

QC Batch: 90552
Prep Batch: 76815

Date Analyzed: 2012-04-24
QC Preparation: 2012-04-24

Analyzed By: DA
Prepared By: DA

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|----|
| DRO | | 1 | <14.5 | mg/Kg | 50 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 115 | mg/Kg | 1 | 100 | 115 | 52 - 140.8 |

Method Blank (1) QC Batch: 90553

QC Batch: 90553
Prep Batch: 76815

Date Analyzed: 2012-04-24
QC Preparation: 2012-04-24

Analyzed By: DA
Prepared By: DA

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|----|
| DRO | | 1 | <14.5 | mg/Kg | 50 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 118 | mg/Kg | 1 | 100 | 118 | 52 - 140.8 |

Method Blank (1) QC Batch: 90566

QC Batch: 90566
Prep Batch: 76841

Date Analyzed: 2012-04-24
QC Preparation: 2012-04-24

Analyzed By: tc
Prepared By: tc

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|------|---------------|-------|------|
| Benzene | | 1 | <0.00470 | mg/Kg | 0.02 |
| Toluene | | 1 | <0.00980 | mg/Kg | 0.02 |
| Ethylbenzene | | 1 | <0.00500 | mg/Kg | 0.02 |

continued ...

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 32 of 52
Eddy Co., NM

Method Blank (1) QC Batch: 90612

QC Batch: 90612
Prep Batch: 76879

Date Analyzed: 2012-04-25
QC Preparation: 2012-04-25

Analyzed By: tc
Prepared By: tc

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|----|
| GRO | | 1 | <1.22 | mg/Kg | 2 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.70 | mg/Kg | 1 | 2.00 | 85 | 78.6 - 111 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.52 | mg/Kg | 1 | 2.00 | 76 | 55 - 100 |

Method Blank (1) QC Batch: 90661

QC Batch: 90661
Prep Batch: 76915

Date Analyzed: 2012-04-27
QC Preparation: 2012-04-27

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|----|
| Chloride | | | <3.85 | mg/Kg | 4 |

Method Blank (1) QC Batch: 90737

QC Batch: 90737
Prep Batch: 76915

Date Analyzed: 2012-04-30
QC Preparation: 2012-04-27

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|----|
| Chloride | | | <3.85 | mg/Kg | 4 |

Method Blank (1) QC Batch: 90738

QC Batch: 90738
Prep Batch: 76915

Date Analyzed: 2012-04-30
QC Preparation: 2012-04-27

Analyzed By: AR
Prepared By: AR

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 33 of 52
Eddy Co., NM

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|----|
| Chloride | | | <3.85 | mg/Kg | 4 |

Method Blank (1) QC Batch: 90755

QC Batch: 90755 Date Analyzed: 2012-05-01 Analyzed By: DA
Prep Batch: 76989 QC Preparation: 2012-05-01 Prepared By: DA

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|----|
| DRO | | 1 | <14.5 | mg/Kg | 50 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 115 | mg/Kg | 1 | 100 | 115 | 52 - 140.8 |

Method Blank (1) QC Batch: 90780

QC Batch: 90780 Date Analyzed: 2012-05-01 Analyzed By: tc
Prep Batch: 77014 QC Preparation: 2012-05-01 Prepared By: tc

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|----|
| GRO | | 1 | <1.22 | mg/Kg | 2 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.75 | mg/Kg | 1 | 2.00 | 88 | 78.6 - 111 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.57 | mg/Kg | 1 | 2.00 | 78 | 55 - 100 |

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 90552
Prep Batch: 76815

Date Analyzed: 2012-04-24
QC Preparation: 2012-04-24

Analyzed By: DA
Prepared By: DA

| Param | F | C | LCS | | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|--------|-------|------|--------------|---------------|------|------------|
| | | | Result | Units | | | | | |
| DRO | | 1 | 253 | mg/Kg | 1 | 250 | <14.5 | 101 | 62 - 128.3 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD | | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|--------|-------|------|--------------|---------------|------|------------|-----|-----------|
| | | | Result | Units | | | | | | | |
| DRO | | 1 | 252 | mg/Kg | 1 | 250 | <14.5 | 101 | 62 - 128.3 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS | | LCSD | | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|-------------|--------|--------|-------|-------|------|--------------|----------|-----------|--------------|
| | Result | Result | Units | Units | | | | | |
| n-Tricosane | 115 | 116 | mg/Kg | mg/Kg | 1 | 100 | 115 | 116 | 58.6 - 149.6 |

Laboratory Control Spike (LCS-1)

QC Batch: 90553
Prep Batch: 76815

Date Analyzed: 2012-04-24
QC Preparation: 2012-04-24

Analyzed By: DA
Prepared By: DA

| Param | F | C | LCS | | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|--------|-------|------|--------------|---------------|------|------------|
| | | | Result | Units | | | | | |
| DRO | | 1 | 242 | mg/Kg | 1 | 250 | <14.5 | 97 | 62 - 128.3 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD | | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|--------|-------|------|--------------|---------------|------|------------|-----|-----------|
| | | | Result | Units | | | | | | | |
| DRO | | 1 | 262 | mg/Kg | 1 | 250 | <14.5 | 105 | 62 - 128.3 | 8 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS | | LCSD | | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|-------------|--------|--------|-------|-------|------|--------------|----------|-----------|--------------|
| | Result | Result | Units | Units | | | | | |
| n-Tricosane | 117 | 125 | mg/Kg | mg/Kg | 1 | 100 | 117 | 125 | 58.6 - 149.6 |

Laboratory Control Spike (LCS-1)

QC Batch: 90566
Prep Batch: 76841

Date Analyzed: 2012-04-24
QC Preparation: 2012-04-24

Analyzed By: tc
Prepared By: tc

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|--------------|
| Benzene | | 1 | 2.38 | mg/Kg | 1 | 2.00 | <0.00470 | 119 | 86.5 - 124.9 |
| Toluene | | 1 | 2.32 | mg/Kg | 1 | 2.00 | <0.00980 | 116 | 84.7 - 122.5 |
| Ethylbenzene | | 1 | 2.18 | mg/Kg | 1 | 2.00 | <0.00500 | 109 | 79.4 - 118.9 |
| Xylene | | 1 | 6.51 | mg/Kg | 1 | 6.00 | <0.0170 | 108 | 79.5 - 118.9 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|-------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| Benzene | | 1 | 2.33 | mg/Kg | 1 | 2.00 | <0.00470 | 116 | 86.5 - 124.9 | 2 | 20 |
| Toluene | | 1 | 2.25 | mg/Kg | 1 | 2.00 | <0.00980 | 112 | 84.7 - 122.5 | 3 | 20 |
| Ethylbenzene | | 1 | 2.15 | mg/Kg | 1 | 2.00 | <0.00500 | 108 | 79.4 - 118.9 | 1 | 20 |
| Xylene | | 1 | 6.41 | mg/Kg | 1 | 6.00 | <0.0170 | 107 | 79.5 - 118.9 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|--------------|
| Trifluorotoluene (TFT) | 1.94 | 2.24 | mg/Kg | 1 | 2.00 | 97 | 112 | 73.9 - 127 |
| 4-Bromofluorobenzene (4-BFB) | 1.44 | 1.76 | mg/Kg | 1 | 2.00 | 72 | 88 | 70.4 - 119.9 |

Laboratory Control Spike (LCS-1)

QC Batch: 90567
Prep Batch: 76841

Date Analyzed: 2012-04-24
QC Preparation: 2012-04-24

Analyzed By: tc
Prepared By: tc

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|------------|-------|------|--------------|---------------|------|--------------|
| GRO | | 1 | 15.6 | mg/Kg | 1 | 20.0 | <1.22 | 78 | 68.3 - 105.7 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|-------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| GRO | | 1 | 16.0 | mg/Kg | 1 | 20.0 | <1.22 | 80 | 68.3 - 105.7 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued ...

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 36 of 52
Eddy Co., NM

control spikes continued ...

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
| Trifluorotoluene (TFT) | 1.89 | 1.95 | mg/Kg | 1 | 2.00 | 94 | 98 | 80 - 111.2 |
| 4-Bromofluorobenzene (4-BFB) | 1.80 | 1.82 | mg/Kg | 1 | 2.00 | 90 | 91 | 66.4 - 106.6 |

Laboratory Control Spike (LCS-1)

QC Batch: 90586
Prep Batch: 76854

Date Analyzed: 2012-04-25
QC Preparation: 2012-04-25

Analyzed By: DA
Prepared By: DA

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| DRO | | 1 | 261 | mg/Kg | 1 | 250 | <14.5 | 104 | 62 - 128.3 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO | | 1 | 271 | mg/Kg | 1 | 250 | <14.5 | 108 | 62 - 128.3 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|-------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| n-Tricosane | 110 | 115 | mg/Kg | 1 | 100 | 110 | 115 | 58.6 - 149.6 |

Laboratory Control Spike (LCS-1)

QC Batch: 90612
Prep Batch: 76879

Date Analyzed: 2012-04-25
QC Preparation: 2012-04-25

Analyzed By: tc
Prepared By: tc

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| GRO | | 1 | 17.1 | mg/Kg | 1 | 20.0 | <1.22 | 86 | 68.3 - 105.7 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO | | 1 | 17.3 | mg/Kg | 1 | 20.0 | <1.22 | 86 | 68.3 - 105.7 | 1 | 20 |

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 37 of 52
Eddy Co., NM

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|--------------|
| Trifluorotoluene (TFT) | 1.91 | 1.97 | mg/Kg | 1 | 2.00 | 96 | 98 | 80 - 111.2 |
| 4-Bromofluorobenzene (4-BFB) | 1.78 | 1.83 | mg/Kg | 1 | 2.00 | 89 | 92 | 66.4 - 106.6 |

Laboratory Control Spike (LCS-1)

QC Batch: 90661
Prep Batch: 76915

Date Analyzed: 2012-04-27
QC Preparation: 2012-04-27

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|------------|-------|------|--------------|---------------|------|------------|
| Chloride | | | 2600 | mg/Kg | 50 | 2500 | <192 | 104 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Chloride | | | 2480 | mg/Kg | 50 | 2500 | <192 | 99 | 85 - 115 | 5 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 90737
Prep Batch: 76915

Date Analyzed: 2012-04-30
QC Preparation: 2012-04-27

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|------------|-------|------|--------------|---------------|------|------------|
| Chloride | | | 2560 | mg/Kg | 1 | 2500 | <3.85 | 102 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Chloride | | | 2380 | mg/Kg | 1 | 2500 | <3.85 | 95 | 85 - 115 | 7 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCS | | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|--------|-------|------|--------------|---------------|------|--------------|
| | | | Result | Units | | | | | |
| GRO | | 1 | 14.3 | mg/Kg | 1 | 20.0 | <1.22 | 72 | 68.3 - 105.7 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCS | | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|--------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| | | | Result | Units | | | | | | | |
| GRO | | 1 | 16.1 | mg/Kg | 1 | 20.0 | <1.22 | 80 | 68.3 - 105.7 | 12 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | F | C | LCS | | Dil. | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit |
|------------------------------|---|---|--------|------------|------|--------------|----------|----------|--------------|
| | | | Result | Units | | | | | |
| Trifluorotoluene (TFT) | | | 1.85 | 1.78 mg/Kg | 1 | 2.00 | 92 | 89 | 80 - 111.2 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.72 | 1.70 mg/Kg | 1 | 2.00 | 86 | 85 | 66.4 - 106.6 |

Matrix Spike (MS-1) Spiked Sample: 294981

QC Batch: 90552
Prep Batch: 76815

Date Analyzed: 2012-04-24
QC Preparation: 2012-04-24

Analyzed By: DA
Prepared By: DA

| Param | F | C | MS | | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|--------|-------|------|--------------|---------------|------|------------|
| | | | Result | Units | | | | | |
| DRO | | 1 | 518 | mg/Kg | 1 | 250 | 292 | 90 | 45.5 - 127 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MS | | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|--------|-------|------|--------------|---------------|------|------------|-----|-----------|
| | | | Result | Units | | | | | | | |
| DRO | | 1 | 535 | mg/Kg | 1 | 250 | 292 | 97 | 45.5 - 127 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | F | C | MS | | Dil. | Spike Amount | MS Rec. | MS Rec. | Rec. Limit |
|-------------|-----------------|-----------------|--------|-----------|------|--------------|---------|---------|--------------|
| | | | Result | Units | | | | | |
| n-Tricosane | Q _{sr} | Q _{sr} | 192 | 190 mg/Kg | 1 | 100 | 192 | 190 | 45.4 - 145.8 |

Matrix Spike (MS-1) Spiked Sample: 295039

QC Batch: 90553
Prep Batch: 76815

Date Analyzed: 2012-04-24
QC Preparation: 2012-04-24

Analyzed By: DA
Prepared By: DA

continued . . .

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 40 of 52
Eddy Co., NM

matrix spikes continued ...

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
| DRO | | 1 | 2340 | mg/Kg | 5 | 250 | 2210 | 52 | 45.5 - 127 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit | |
|-------|----------------|----------------|---------------|-------|-------|-----------------|------------------|------|---------------|------------|--------------|----|
| DRO | Q _s | Q _s | 1 | 2700 | mg/Kg | 5 | 250 | 2210 | 196 | 45.5 - 127 | 14 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit | | |
|-------------|-----------------|-----------------|-------|------|-----------------|------------|-------------|---------------|-----|--------------|
| n-Tricosane | Q _{sr} | Q _{sr} | 378 | 411 | mg/Kg | 5 | 100 | 378 | 411 | 45.4 - 145.8 |

Matrix Spike (MS-1) Spiked Sample: 295021

QC Batch: 90566
Prep Batch: 76841

Date Analyzed: 2012-04-24
QC Preparation: 2012-04-24

Analyzed By: tc
Prepared By: tc

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | | 1 | 2.39 | mg/Kg | 1 | 2.00 | <0.00470 | 120 | 69.3 - 159.2 |
| Toluene | | 1 | 2.42 | mg/Kg | 1 | 2.00 | 0.1064 | 116 | 68.7 - 157 |
| Ethylbenzene | | 1 | 2.52 | mg/Kg | 1 | 2.00 | 0.1049 | 121 | 71.6 - 158.2 |
| Xylene | | 1 | 7.76 | mg/Kg | 1 | 6.00 | 0.3622 | 123 | 70.8 - 159.8 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | | 1 | 2.45 | mg/Kg | 1 | 2.00 | <0.00470 | 122 | 69.3 - 159.2 | 2 | 20 |
| Toluene | | 1 | 2.49 | mg/Kg | 1 | 2.00 | 0.1064 | 119 | 68.7 - 157 | 3 | 20 |
| Ethylbenzene | | 1 | 2.60 | mg/Kg | 1 | 2.00 | 0.1049 | 125 | 71.6 - 158.2 | 3 | 20 |
| Xylene | | 1 | 7.90 | mg/Kg | 1 | 6.00 | 0.3622 | 126 | 70.8 - 159.8 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | 2.44 | 2.20 | mg/Kg | 1 | 2 | 122 | 110 | 71.4 - 133.9 |
| 4-Bromofluorobenzene (4-BFB) | 2.44 | 2.15 | mg/Kg | 1 | 2 | 122 | 108 | 72.6 - 144.1 |

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 41 of 52
Eddy Co., NM

Matrix Spike (MS-1) Spiked Sample: 295018

QC Batch: 90567
Prep Batch: 76841

Date Analyzed: 2012-04-24
QC Preparation: 2012-04-24

Analyzed By: tc
Prepared By: tc

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | |
|-------|----------------|----------------|-----------|-------|-------|--------------|---------------|---------|------------|--------------|
| GRO | Q _s | Q _s | 1 | 7400 | mg/Kg | 50 | 500 | 4149.32 | 650 | 28.2 - 157.2 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit | |
|-------|----------------|----------------|------------|-------|-------|--------------|---------------|---------|------------|--------------|-----------|----|
| GRO | Q _s | Q _s | 1 | 7620 | mg/Kg | 50 | 500 | 4149.32 | 694 | 28.2 - 157.2 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit | | |
|------------------------------|-----------------|-----------------|-------|------|--------------|---------|----------|--------------|-----|--------------|
| Trifluorotoluene (TFT) | 53.8 | 52.0 | mg/Kg | 50 | 50 | 108 | 104 | 75.5 - 122.3 | | |
| 4-Bromofluorobenzene (4-BFB) | Q _{sr} | Q _{sr} | 70.0 | 69.2 | mg/Kg | 50 | 50 | 140 | 138 | 77.9 - 122.4 |

Matrix Spike (MS-1) Spiked Sample: 294998

QC Batch: 90586
Prep Batch: 76854

Date Analyzed: 2012-04-25
QC Preparation: 2012-04-25

Analyzed By: DA
Prepared By: DA

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | |
|-------|---|---|-----------|-------|-------|--------------|---------------|------|------------|------------|
| DRO | | | 1 | 274 | mg/Kg | 1 | 250 | 120 | 62 | 45.5 - 127 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit | |
|-------|---|---|------------|-------|-------|--------------|---------------|------|------------|------------|-----------|----|
| DRO | | | 1 | 288 | mg/Kg | 1 | 250 | 120 | 67 | 45.5 - 127 | 5 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|-------------|-----------|------------|-------|------|--------------|---------|----------|--------------|
| n-Tricosane | 126 | 121 | mg/Kg | 1 | 100 | 126 | 121 | 45.4 - 145.8 |

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 42 of 52
Eddy Co., NM

Matrix Spike (MS-1) Spiked Sample: 295158

QC Batch: 90612 Date Analyzed: 2012-04-25 Analyzed By: tc
Prep Batch: 76879 QC Preparation: 2012-04-25 Prepared By: tc

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| GRO | | 1 | 6340 | mg/Kg | 50 | 500 | 5925.95 | 83 | 28.2 - 157.2 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Limit | RPD | RPD Limit | | |
|-------|---------------------------------|---------------------------------|---------------|-------|-------|-----------------|------------------|---------------|-----|--------------|----|----|
| GRO | Q _r , Q _s | Q _r , Q _s | 1 | 7790 | mg/Kg | 50 | 500 | 5925.95 | 373 | 28.2 - 157.2 | 20 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | F | C | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------------|-----------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | | | 51.2 | 51.0 | mg/Kg | 50 | 50 | 102 | 102 | 75.5 - 122.3 |
| 4-Bromofluorobenzene (4-BFB) | Q _{sr} | Q _{sr} | 66.2 | 65.4 | mg/Kg | 50 | 50 | 132 | 131 | 77.9 - 122.4 |

Matrix Spike (MS-1) Spiked Sample: 294990

QC Batch: 90661 Date Analyzed: 2012-04-27 Analyzed By: AR
Prep Batch: 76915 QC Preparation: 2012-04-27 Prepared By: AR

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | | 2930 | mg/Kg | 50 | 2500 | 403 | 101 | 79.4 - 120.6 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Limit | RPD | RPD Limit | |
|----------|---|---|---------------|-------|------|-----------------|------------------|---------------|--------------|--------------|----|
| Chloride | | | 3040 | mg/Kg | 50 | 2500 | 403 | 105 | 79.4 - 120.6 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 295000

QC Batch: 90737 Date Analyzed: 2012-04-30 Analyzed By: AR
Prep Batch: 76915 QC Preparation: 2012-04-27 Prepared By: AR

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 43 of 52
Eddy Co., NM

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|-----------|-------|------|--------------|---------------|------|--------------|
| Chloride | | | 2530 | mg/Kg | 5 | 2500 | <19.2 | 101 | 79.4 - 120.6 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Limit | RPD | RPD Limit | |
|----------|---|---|------------|-------|------|--------------|---------------|------------|--------------|-----------|----|
| Chloride | | | 2480 | mg/Kg | 5 | 2500 | <19.2 | 99 | 79.4 - 120.6 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 295011

QC Batch: 90738
Prep Batch: 76915

Date Analyzed: 2012-04-30
QC Preparation: 2012-04-27

Analyzed By: AR
Prepared By: AR

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|-----------|-------|------|--------------|---------------|------|--------------|
| Chloride | | | 3100 | mg/Kg | 5 | 2500 | 606 | 100 | 79.4 - 120.6 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Limit | RPD | RPD Limit | |
|----------|---|---|------------|-------|------|--------------|---------------|------------|--------------|-----------|----|
| Chloride | | | 3190 | mg/Kg | 5 | 2500 | 606 | 103 | 79.4 - 120.6 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 295046

QC Batch: 90755
Prep Batch: 76989

Date Analyzed: 2012-05-01
QC Preparation: 2012-05-01

Analyzed By: DA
Prepared By: DA

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| DRO | | | 297 | mg/Kg | 1 | 250 | <14.5 | 119 | 45.5 - 127 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Limit | RPD | RPD Limit | |
|-------|---|---|------------|-------|------|--------------|---------------|------------|------------|-----------|----|
| DRO | | | 295 | mg/Kg | 1 | 250 | <14.5 | 118 | 45.5 - 127 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 44 of 52
Eddy Co., NM

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|-------------|-----------|------------|-------|------|--------------|---------|----------|--------------|
| n-Tricosane | 126 | 125 | mg/Kg | 1 | 100 | 126 | 125 | 45.4 - 145.8 |

Matrix Spike (MS-1) Spiked Sample: 295045

QC Batch: 90780
Prep Batch: 77014

Date Analyzed: 2012-05-01
QC Preparation: 2012-05-01

Analyzed By: tc
Prepared By: tc

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|-----------|-------|------|--------------|---------------|------|--------------|
| GRO | | 1 | 24.7 | mg/Kg | 1 | 20.0 | 1.6489 | 115 | 28.2 - 157.2 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| GRO | | 1 | 24.2 | mg/Kg | 1 | 20.0 | 1.6489 | 113 | 28.2 - 157.2 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------------|-----------------|-------|------|--------------|---------|----------|----------------------|
| Trifluorotoluene (TFT) | Q _{sr} | Q _{sr} | 2.60 | 2.32 | mg/Kg | 1 | 2 | 130 116 75.5 - 122.3 |
| 4-Bromofluorobenzene (4-BFB) | | | 2.37 | 2.15 | mg/Kg | 1 | 2 | 118 108 77.9 - 122.4 |

Calibration Standards

Standard (CCV-2)

QC Batch: 90552

Date Analyzed: 2012-04-24

Analyzed By: DA

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1 | mg/Kg | 250 | 246 | 98 | 80 - 120 | 2012-04-24 |

Standard (CCV-3)

QC Batch: 90552

Date Analyzed: 2012-04-24

Analyzed By: DA

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1 | mg/Kg | 250 | 244 | 98 | 80 - 120 | 2012-04-24 |

Standard (CCV-4)

QC Batch: 90552

Date Analyzed: 2012-04-24

Analyzed By: DA

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1 | mg/Kg | 250 | 242 | 97 | 80 - 120 | 2012-04-24 |

Standard (CCV-1)

QC Batch: 90553

Date Analyzed: 2012-04-24

Analyzed By: DA

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1 | mg/Kg | 250 | 239 | 96 | 80 - 120 | 2012-04-24 |

Standard (CCV-2)

QC Batch: 90553

Date Analyzed: 2012-04-24

Analyzed By: DA

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1 | mg/Kg | 250 | 236 | 94 | 80 - 120 | 2012-04-24 |

Standard (CCV-1)

QC Batch: 90566

Date Analyzed: 2012-04-24

Analyzed By: tc

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/kg | 0.100 | 0.109 | 109 | 80 - 120 | 2012-04-24 |
| Toluene | | 1 | mg/kg | 0.100 | 0.107 | 107 | 80 - 120 | 2012-04-24 |
| Ethylbenzene | | 1 | mg/kg | 0.100 | 0.108 | 108 | 80 - 120 | 2012-04-24 |
| Xylene | | 1 | mg/kg | 0.300 | 0.323 | 108 | 80 - 120 | 2012-04-24 |

Standard (CCV-2)

QC Batch: 90566

Date Analyzed: 2012-04-24

Analyzed By: tc

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/kg | 0.100 | 0.111 | 111 | 80 - 120 | 2012-04-24 |
| Toluene | | 1 | mg/kg | 0.100 | 0.109 | 109 | 80 - 120 | 2012-04-24 |
| Ethylbenzene | | 1 | mg/kg | 0.100 | 0.105 | 105 | 80 - 120 | 2012-04-24 |
| Xylene | | 1 | mg/kg | 0.300 | 0.317 | 106 | 80 - 120 | 2012-04-24 |

Standard (CCV-3)

QC Batch: 90566

Date Analyzed: 2012-04-24

Analyzed By: tc

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/kg | 0.100 | 0.106 | 106 | 80 - 120 | 2012-04-24 |

continued ...

standard continued ...

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Toluene | | 1 | mg/kg | 0.100 | 0.102 | 102 | 80 - 120 | 2012-04-24 |
| Ethylbenzene | | 1 | mg/kg | 0.100 | 0.0984 | 98 | 80 - 120 | 2012-04-24 |
| Xylene | | 1 | mg/kg | 0.300 | 0.294 | 98 | 80 - 120 | 2012-04-24 |

Standard (CCV-1)

QC Batch: 90567

Date Analyzed: 2012-04-24

Analyzed By: tc

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1 | mg/Kg | 1.00 | 1.10 | 110 | 80 - 120 | 2012-04-24 |

Standard (CCV-2)

QC Batch: 90567

Date Analyzed: 2012-04-24

Analyzed By: tc

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1 | mg/Kg | 1.00 | 1.14 | 114 | 80 - 120 | 2012-04-24 |

Standard (CCV-3)

QC Batch: 90567

Date Analyzed: 2012-04-24

Analyzed By: tc

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1 | mg/Kg | 1.00 | 1.04 | 104 | 80 - 120 | 2012-04-24 |

Standard (CCV-2)

QC Batch: 90586

Date Analyzed: 2012-04-25

Analyzed By: DA

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 48 of 52
Eddy Co., NM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1 | mg/Kg | 250 | 272 | 109 | 80 - 120 | 2012-04-25 |

Standard (CCV-3)

QC Batch: 90586

Date Analyzed: 2012-04-25

Analyzed By: DA

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1 | mg/Kg | 250 | 250 | 100 | 80 - 120 | 2012-04-25 |

Standard (CCV-1)

QC Batch: 90612

Date Analyzed: 2012-04-25

Analyzed By: tc

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1 | mg/Kg | 1.00 | 1.07 | 107 | 80 - 120 | 2012-04-25 |

Standard (CCV-2)

QC Batch: 90612

Date Analyzed: 2012-04-25

Analyzed By: tc

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1 | mg/Kg | 1.00 | 1.18 | 118 | 80 - 120 | 2012-04-25 |

Standard (CCV-1)

QC Batch: 90661

Date Analyzed: 2012-04-27

Analyzed By: AR

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 50 of 52
Eddy Co., NM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | | mg/Kg | 100 | 101 | 101 | 85 - 115 | 2012-04-30 |

Standard (CCV-2)

QC Batch: 90738

Date Analyzed: 2012-04-30

Analyzed By: AR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | | mg/Kg | 100 | 99.0 | 99 | 85 - 115 | 2012-04-30 |

Standard (CCV-1)

QC Batch: 90755

Date Analyzed: 2012-05-01

Analyzed By: DA

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1 | mg/Kg | 250 | 287 | 115 | 80 - 120 | 2012-05-01 |

Standard (CCV-2)

QC Batch: 90755

Date Analyzed: 2012-05-01

Analyzed By: DA

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1 | mg/Kg | 250 | 219 | 88 | 80 - 120 | 2012-05-01 |

Standard (CCV-1)

QC Batch: 90780

Date Analyzed: 2012-05-01

Analyzed By: tc

Report Date: May 2, 2012
114-6401366

Work Order: 12042402
COG/SRO State Unit Com. #2

Page Number: 51 of 52
Eddy Co., NM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1 | mg/Kg | 1.00 | 0.896 | 90 | 80 - 120 | 2012-05-01 |

Standard (CCV-2)

QC Batch: 90780

Date Analyzed: 2012-05-01

Analyzed By: tc

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1 | mg/Kg | 1.00 | 0.945 | 94 | 80 - 120 | 2012-05-01 |

Appendix

Report Definitions

| Name | Definition |
|------|----------------------------|
| MDL | Method Detection Limit |
| MQL | Minimum Quantitation Limit |
| SDL | Sample Detection Limit |

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |
| 1 | NELAP | T104704392-11-3 | Midland |

Standard Flags

| F | Description |
|-----|---|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |
| Qsr | Surrogate recovery outside of laboratory limits. |
| U | The analyte is not detected above the SDL |

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

12042402

Analysis Request of Chain of Custody Record



TETRA TECH

1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

COG

SITE MANAGER:

Ike Tavaroz

PROJECT NO.:

114-6401366

PROJECT NAME:

SRO State Unit Com #2

LAB I.D. NUMBER

DATE

TIME

MATRIX

COMP.

GRAB

Eddy Co NM
SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS
FILTERED (Y/N)

PRESERVATIVE METHOD

294981

4/23

S

X

AH-1

0-0.5'

1

HCL

HNO3

ICE

NONE

BTEX 8021B

TPH 8015 MID. TX1005 (Ext. to C35)

PAH 8270

RCRA Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Metals Ag As Ba Cd Cr Vr Pd Hg Se

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC.MS Vol. 8240/8260/624

GC.MS Semi. Vol. 8270/625

PCB's 8080/608

Pest. 809/608

Chloride

Gamma Spec.

Alpha Beta (Air)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLED BY: (Print & Initial)

Date:

Time:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLE SHIPPED BY: (Circle)

AIRBILL #:

FEDEX

HAND DELIVERED

BUS

UPS

OTHER:

RECEIVING LABORATORY:

Trace

RECEIVED BY: (Signature)

ADDRESS:

CITY: Midland

STATE: TX

ZIP:

CONTACT:

PHONE:

DATE:

TIME:

TETRA TECH CONTACT PERSON:

Ike Tavaroz

Results by:

RUSH Charges Authorized:

Yes No

SAMPLE CONDITION WHEN RECEIVED:

2.9°

REMARKS:

(AH-1 → AH-10) Run (5) BTEX w/ highest TPH

Please fill out all copies - Laboratory retains Yellow copy - Return Original copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

(AH-11 → AH-13) Run deeper sample of TPH exceed 100 mg/kg
Run deeper sample of benzene exceed 10 mg/kg or total BTEX 9 mg/kg.

12042402

Analysis Request of Chain of Custody Record



TETRA TECH

1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: CDG SITE MANAGER: Ike Taravez

PROJECT NO.: 114-6401366 PROJECT NAME: SRO State Unit Com # 2

| LAB I.D. NUMBER | DATE | TIME | MATRIX | COMP. | GRAB | SAMPLE IDENTIFICATION | NUMBER OF CONTAINERS | PRESERVATIVE METHOD | | | | | | |
|-----------------|------|------|--------|-------|------|-----------------------|----------------------|---------------------|-----|------|-----|------|--|--|
| | | | | | | | | Filtered (Y/N) | HCL | HNO3 | ICE | NONE | | |
| 991 | 4/23 | | S | X | | AH-11 0-1' | 1 | | | X | | | | |
| 992 | | | | | | 1-1.5' | | | | | | | | |
| 993 | | | | | | 2-2.5' | | | | | | | | |
| 994 | | | | | | 3-3.5' | | | | | | | | |
| 995 | | | | | | 4-4.5' | | | | | | | | |
| 996 | | | | | | 5-5.5' | | | | | | | | |
| 997 | | | | | | AH-12 0-1' | | | | | | | | |
| 998 | | | | | | 1-1.5' | | | | | | | | |
| 999 | | | | | | 2-2.5' | | | | | | | | |
| 20500 | | | | | | 3-3.5' | | | | | | | | |

| | | | | | | | | | | | | | | | |
|-----------|----------------------|-------------------------------------|-------------------------------------|----------------|---------------------|-----|--------------------------|---------------------------|----------------|---------------|----------|-------------|------------------|----------------|-------------------------------|
| BTX 8021B | TX1005 (Ext. to C35) | PCRA Metals Ag As Ba Cd Cr Pb Hg Se | TCLP Metals Ag As Ba Cd Vr Pd Hg Se | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol. 8240/8260/624 | GC/MS Semi. Vol. 8270/625 | PCB's 8090/608 | Pest. 808/608 | Chloride | Gamma Spec. | Alpha Beta (Air) | PLM (Asbestos) | Major Anions/Cations, pH, TDS |
|-----------|----------------------|-------------------------------------|-------------------------------------|----------------|---------------------|-----|--------------------------|---------------------------|----------------|---------------|----------|-------------|------------------|----------------|-------------------------------|

RELINQUISHED BY: (Signature) [Signature] Date: 4/23/12 Time: 4:50

RECEIVED BY: (Signature) [Signature] Date: 4/23/12 Time: 4:50

RELINQUISHED BY: (Signature) _____ Date: _____ Time: _____

RECEIVED BY: (Signature) _____ Date: _____ Time: _____

RELINQUISHED BY: (Signature) _____ Date: _____ Time: _____

RECEIVED BY: (Signature) _____ Date: _____ Time: _____

RECEIVING LABORATORY: Trace RECEIVED BY: (Signature) _____

ADDRESS: _____ CITY: Midland STATE: TX ZIP: _____ CONTACT: _____ PHONE: _____ DATE: _____ TIME: _____

SAMPLED BY: (Print & Initial) TF RS Date: 4-23-12

SAMPLE SHIPPED BY: (Circle) HAND DELIVERED FEDEX BUS UPS OTHER: _____

TETRA TECH CONTACT PERSON: Ike Taravez Results by: _____

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 39° intact

REMARKS: _____

12062402

Analysis Request of Chain of Custody Record



TETRA TECH

1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG SITE MANAGER: Ike Tavaroz

PROJECT NO.: 114-6401366 PROJECT NAME: SRD State Unit Com # 2

| LAB I.D. NUMBER | DATE | TIME | MATRIX | COMP | GRAB | SAMPLE IDENTIFICATION | NUMBER OF CONTAINERS FILTERED (Y/N) | PRESERVATIVE METHOD | | | | BTEX 802FB | TPH 8015 MOD. TX1005 (Ext. to C95) | PAR 8590 | PCRA Metals Ag As Ba Cd Cr Pb Hg Se | TCLP Metals Ag As Ba Cd Vr Pd Hg Se | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC.MS Vol. 8240/8260/824 | GC.MS Semi. Vol. 8270/825 | PCB's 8080/608 | Pest. 809/608 | Chloride | Gamma Spec. | Alpha Beta (Air) | PLM (Asbestos) | Major Anions/Cations, pH, TDS | | | |
|-----------------|------|------|--------|------|------|-----------------------|-------------------------------------|---------------------|------|-----|------|------------|------------------------------------|----------|-------------------------------------|-------------------------------------|----------------|---------------------|-----|--------------------------|---------------------------|----------------|---------------|----------|-------------|------------------|----------------|-------------------------------|--|--|--|
| | | | | | | | | HCL | HNO3 | ICE | NONE | | | | | | | | | | | | | | | | | | | | |
| 001 | 4/23 | | ✓ | X | | AH-12 4-4.5' | 1 | | | X | | | | | | | | | | | | | | | | | | | | | |
| 002 | | | | | | 5-5.5' | | | | | | | | | | | | | | | | | | | | | | | | | |
| 003 | | | | | | AH-13 0-1' | | | | | | | | | | | | | | | | | | | | | | | | | |
| 004 | | | | | | 1-1.5' | | | | | | | | | | | | | | | | | | | | | | | | | |
| 005 | | | | | | 2-2.5' | | | | | | | | | | | | | | | | | | | | | | | | | |
| 006 | | | | | | 3-3.5' | | | | | | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY: (Signature) [Signature]
Date: 4/23/12
Time: 4:50 p.m.

RECEIVED BY: (Signature) [Signature]
Date: 4/23/12
Time: 16:50

SAMPLED BY: (Print & Initial) YE / RS
Date: 4-23-12
Time: 16:50

SAMPLE SHIPPED BY: (Circle)
FEDEX BUS
HAND DELIVERED UPS
OTHER: _____
AIRBILL #: _____
TETRA TECH CONTACT PERSON: _____
Results by: _____

RECEIVING LABORATORY: Texas
ADDRESS: _____
CITY: Midland STATE: TX ZIP: _____
CONTACT: _____ PHONE: _____ DATE: _____ TIME: _____

RECEIVED BY: (Signature) _____
DATE: _____ TIME: _____

TETRA TECH CONTACT PERSON: Ike Tavaroz
RUSH Charges Authorized: _____
Yes No

SAMPLE CONDITION WHEN RECEIVED: 3.9° intact

REMARKS: _____

#12042402

Analysis Request of Chain of Custody Record

PAGE: 2 : 3



TETRA TECH

1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

COG

SITE MANAGER:

Ike Tavaras

PROJECT NO.:

114-6401366

PROJECT NAME:

SRO State Unit Com # 2

LAB I.D. NUMBER

DATE

TIME

MATRIX
COMP.
GRAB

Eddy Co NY
SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

PRESERVATIVE METHOD

HCL
HNO3
ICE
NONE

BTEX 8021B
TPH 8015 MOD. TX1005 (Ext. to C35)
PAH 8270

RCRA Metals Ag As Ba Cd Cr Pb Hg Se
TCLP Metals Ag As Ba Cd Vr Pd Hg Se
TCLP Volatiles
TCLP Semi Volatiles
RCI
GC-MS Vol. 8240/8260/824
GC-MS Semi. Vol. 8270/625
PCB's 8080/608
Pest. 808/608
Chloride
Gamma Spec.
Alpha Beta (Air)
PLM (Asbestos)
Major Anions/Cations, pH, TDS

| LAB I.D. NUMBER | DATE | TIME | MATRIX | COMP. | GRAB | SAMPLE IDENTIFICATION | NUMBER OF CONTAINERS | FILTERED (Y/N) | HCL | HNO3 | ICE | NONE | BTEX 8021B | TPH 8015 MOD. TX1005 (Ext. to C35) | PAH 8270 | RCRA Metals Ag As Ba Cd Cr Pb Hg Se | TCLP Metals Ag As Ba Cd Vr Pd Hg Se | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC-MS Vol. 8240/8260/824 | GC-MS Semi. Vol. 8270/625 | PCB's 8080/608 | Pest. 808/608 | Chloride | Gamma Spec. | Alpha Beta (Air) | PLM (Asbestos) | Major Anions/Cations, pH, TDS | | |
|-----------------|------|------|--------|-------|------|-----------------------|----------------------|----------------|-----|------|-----|------|------------|------------------------------------|----------|-------------------------------------|-------------------------------------|----------------|---------------------|-----|--------------------------|---------------------------|----------------|---------------|----------|-------------|------------------|----------------|-------------------------------|--|--|
| 991 | 4/23 | | S | X | | AH-11 0-1' | 1 | | | | X | | | | | | | | | | | | | | | | | | | | |
| 992 | | | | | | 1-1.5' | | | | | | | | | | | | | | | | | | | | | | | | | |
| 993 | | | | | | 2-2.5' | | | | | | | | | | | | | | | | | | | | | | | | | |
| 994 | | | | | | 3-3.5' | | | | | | | | | | | | | | | | | | | | | | | | | |
| 995 | | | | | | 4-4.5' | | | | | | | | | | | | | | | | | | | | | | | | | |
| 996 | | | | | | 5-5.5' | | | | | | | | | | | | | | | | | | | | | | | | | |
| 997 | | | | | | AH-12 0-1' | | | | | | | | | | | | | | | | | | | | | | | | | |
| 998 | | | | | | 1-1.5' | | | | | | | | | | | | | | | | | | | | | | | | | |
| 999 | | | | | | 2-2.5' | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20500 | | | | | | 3-3.5' | | | | | | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY: (Signature) _____ Date: 4/23/12 Time: 4:55P
 RECEIVED BY: (Signature) _____ Date: 4/23/12 Time: 6:50
 SAMPLED BY: (Print & Initial) TF RS Date: 4-23-12 Time: _____

RELINQUISHED BY: (Signature) _____ Date: _____ Time: _____
 RECEIVED BY: (Signature) _____ Date: _____ Time: _____
 SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL #: _____
 HAND DELIVERED UPS OTHER: _____

RELINQUISHED BY: (Signature) _____ Date: _____ Time: _____
 RECEIVED BY: (Signature) _____ Date: _____ Time: _____
 TETRA TECH CONTACT PERSON: Ike Tavaras Results by: _____

RECEIVING LABORATORY: Trace RECEIVED BY: (Signature) _____
 ADDRESS: _____
 CITY: Midland STATE: TX ZIP: _____
 CONTACT: _____ PHONE: _____ DATE: _____ TIME: _____

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:
39° intact

REMARKS:

A

