

3R-1011

**Release Report/ General
Correspondence**

Enterprise SJ

Date: Apr-June 2016

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

OIL CONS. DIV DIST. 3

MAY 16 2016 Revised August 8, 2011

Form C-141
Submit 1 Copy to appropriate District Office
in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | |
|--|---|
| Name of Company: Enterprise Field Services LLC | Contact: Thomas Long |
| Address: 614 Reilly Ave, Farmington, NM 87401 | Telephone No. 505-599-2286 |
| Facility Name: Chaco Gas Plant | Facility Type: Natural Gas Processing Plant |

| | | |
|------------------------|------------------------|--------------------|
| Surface Owner: Private | Mineral Owner: Private | Serial Number: N/A |
|------------------------|------------------------|--------------------|

LOCATION OF RELEASE

| | | | | | | | | |
|-------------------------|----------------------|------------------------|---------------------|----------------------|--------------------------------|-----------------------|------------------------------|---------------------------|
| Unit Letter M | Section 16 | Township 26N | Range 12W | Feet from the 710 | North South Line | Feet from the 1968 | East West Line | County San Juan |
|-------------------------|----------------------|------------------------|---------------------|----------------------|--------------------------------|-----------------------|------------------------------|---------------------------|

Latitude 36.482905 Longitude -108.119193

NATURE OF RELEASE

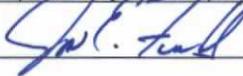
| | | |
|---|--|--|
| Type of Release: Natural Gas/Fire | Volume of Release < 1 MCF | Volume Recovered: None |
| Source of Release: Engine | Date and Hour of Occurrence: 5/5/2016 @ 6:15 a.m. | Date and Hour of Discovery: 5/5/2016 @ 6:30 a.m. |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Courtesy Notification – Vanessa Fields, NMOCD | |
| By Whom? Thomas Long | Date and Time May 5, 2016 @ 4:00 p.m. | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action: At approximately 6:15 a.m. as an operator was in the process of restarting Engine 8A and noticed small flames on top of Engine 11A. The operator contacted Control Room via radio and requested an emergency shutdown of the unit. Once unit was shut down the operator observed several small flames on the insulation blankets on top of the engine and discharged a fire extinguisher which successfully extinguished the flames. A 3" fitting from the oil pump to the oil cooler had been identified as the leak point. No damage to engine or auxiliary equipment identified.

Describe Area Affected and Cleanup Action: None

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:  | OIL CONSERVATION DIVISION | |
| Printed Name: Jon E. Fields | Approved by Environmental Specialist:  | |
| Title: Director, Field Environmental | Approval Date: <u>5/17/16</u> | Expiration Date: |
| E-mail Address: jefields@eprod.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: <u>5/13/2016</u> | Phone: (713)381-6684 | |

* Attach Additional Sheets If Necessary

NOF 1613847910

①

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 CONS. DIV DIST. 3

Form C-141
Revised August 8, 2011

MAY 02 2016

Submit 1 Copy to appropriate District Office
in accordance with 19.15.29 NMAC.

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | |
|--|---|
| Name of Company: Enterprise Field Services LLC | Contact: Thomas Long |
| Address: 614 Reilly Ave, Farmington, NM 87401 | Telephone No. 505-599-2286 |
| Facility Name: Trunk 3A | Facility Type: Natural Gas Gathering Pipeline |
| Surface Owner: BLM | Mineral Owner: BLM |
| Serial Number: NM 0011010 | |

LOCATION OF RELEASE

| | | | | | | | | |
|-------------------------|----------------------|------------------------|---------------------|-----------------------------|-----------------------------|----------------------------|---------------------------|---------------------------|
| Unit Letter A | Section 10 | Township 28N | Range 12W | Feet from the 389 | <u>North</u> /South Line | Feet from the 65 | <u>East</u> /West Line | County San Juan |
|-------------------------|----------------------|------------------------|---------------------|-----------------------------|-----------------------------|----------------------------|---------------------------|---------------------------|

Latitude 36.67456 Longitude -108.09921

NATURE OF RELEASE

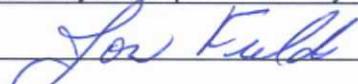
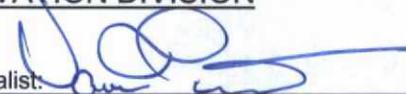
| | | |
|---|--|--|
| Type of Release: Natural Gas and Condensate | Volume of Release Unknown | Volume Recovered: None |
| Source of Release: Suspected Internal Corrosion of the Pipeline | Date and Hour of Occurrence: 4/23/2016 @ 11:45p.m. | Date and Hour of Discovery: 4/23/2016 @ 12:40 p.m. |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Cory Smith – NMOCD, Katherina Diemer – BLM, NRC | |
| By Whom? Thomas Long | Date and Time 4/23/2016 @ 6:29 p.m. | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action: On April 23, 2016, Enterprise technician discovered a gas leak from on the Trunk 3A pipeline. The pipeline was isolated, blown down, locked out and tagged out. Fluids released flowed down rills and entered an ephemeral wash. Repairs and remediation are in progress.

Describe Area Affected and Cleanup Action: Enterprise will remove the contaminant mass by mechanical excavation. A third party corrective action report will be included with the "Final." C-141.

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:  | OIL CONSERVATION DIVISION | |
| Printed Name: Jon E. Fields | Approved by Environmental Specialist:  | |
| Title: Director, Environmental | Approval Date: <u>5/31/2016</u> | Expiration Date: |
| E-mail Address: jefields@eprod.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: <u>4-28-2016</u> Phone: (713)381-6684 | | |

* Attach Additional Sheets If Necessary

NCS1612331407

①

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office
in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | |
|--|--|
| Name of Company: Enterprise Field Services LLC | Contact: Thomas Long |
| Address: 614 Reilly Ave, Farmington, NM 87401 | Telephone No. 505-599-2286 |
| Facility Name: Edgar Federal #7 | Facility Type: Natural Gas Meter Tube |

| | | |
|--|--|----------------|
| Surface Owner: Navajo Nation/NAPI | Mineral Owner: Navajo Nation/NAPI | Serial Number: |
|--|--|----------------|

LOCATION OF RELEASE

| | | | | | | | | |
|-------------------------|----------------------|------------------------|---------------------|-----------------------------|-----------------------------|------------------------------|--------------------------|---------------------------|
| Unit Letter P | Section 12 | Township 27N | Range 12W | Feet from the 645 | North/ <u>South</u> Line | Feet from the 1014 | <u>East</u> West Line | County San Juan |
|-------------------------|----------------------|------------------------|---------------------|-----------------------------|-----------------------------|------------------------------|--------------------------|---------------------------|

Latitude 36.58412 Longitude -108.05758

NATURE OF RELEASE

| | | |
|---|---|--|
| Type of Release: Natural Gas and Condensate | Volume of Release 0.3 MCF Gas; 3-5 bbls Condensate | Volume Recovered: None |
| Source of Release: Failed Gasket on a Meter Tube | Date and Hour of Occurrence: 4/13/2016 @ 12:11 p.m. | Date and Hour of Discovery: 4/13/2016 @ 12:11 p.m. |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom? | OIL CONS. DIV DIST. 3 |
| By Whom? | Date and Time MAY 06 2016 | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume | |

If a Watercourse was Impacted, Describe Fully.*
Describe Cause of Problem and Remedial Action: On April 13, 2016, Enterprise technician discovered a gas leak from the gasket on the Edgar Federal #7 meter tube. The meter tube was isolated, blown down, locked out and tagged out. An area of soil staining of approximately 15 feet long by 2 feet wide was observed on the ground surface. Remediation began on April 25, 2105 and Enterprise determined this release to be reportable per NMOCD due the volume of subsurface impacts.

Describe Area Affected and Cleanup Action: Enterprise will remove the contaminant mass by mechanical excavation. A third party corrective action report will be included with the "Final." C-141.

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: | OIL CONSERVATION DIVISION | |
| Printed Name: Jon E. Fields | Approved by Environmental Specialist: | |
| Title: Director, Environmental | Approval Date: 6/11/16 | Expiration Date: |
| E-mail Address: jefields@eprod.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 4/28/2016 | Phone: (713)381-6684 | |

*Sample Area TPA/BTEX
Chlorides
NW 1616830109*

* Attach Additional Sheets If Necessary

①

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

APR 11 2016

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office
in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | |
|--|---|
| Name of Company: Enterprise Field Services LLC | Contact: Thomas Long |
| Address: 614 Reilly Ave, Farmington, NM 87401 | Telephone No. 505-599-2286 |
| Facility Name: Lateral 2C | Facility Type: Natural Gas Gathering Pipeline |

| | | |
|--------------------|--------------------|---------------------------|
| Surface Owner: BLM | Mineral Owner: BLM | Serial Number: NM 0016105 |
|--------------------|--------------------|---------------------------|

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the 1036 | North/South Line | Feet from the 492 | East/West Line | County |
|-------------|---------|----------|-------|--------------------|------------------|-------------------|----------------|----------|
| D | 1 | 25N | 8W | | South | | West | San Juan |

Latitude 36.43331 Longitude -107.64040

NATURE OF RELEASE

| | | |
|--|---|--|
| Type of Release: Natural Gas and Condensate | Volume of Release: Unknown | Volume Recovered: None |
| Source of Release: Suspected Internal Corrosion | Date and Hour of Occurrence: 3/4/2016 @ 4:00 p.m. | Date and Hour of Discovery: 3/4/2016 @ 6:00 p.m. |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom? | |
| By Whom? | Date and Time | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action: On March 4, 2016, Enterprise technicians discovered a gas leak on the Lateral 2C pipeline. A small amount of fluids were observed at the ground surface. The pipeline was isolated, blown down, locked out and tagged out. Initial repair and remediation activities were not initiated until March 17, 2016. Enterprise has determined this release to be reportable per NMOCD and BLM regulation on March 22, 2016 due the volume of subsurface impacts.

Describe Area Affected and Cleanup Action: Permanent repairs and remediation are scheduled for March 23, 2016. Enterprise will remove the contaminant mass by mechanical excavation. A third party corrective action report will be included with the "Final." C-141.

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: | OIL CONSERVATION DIVISION | |
| Printed Name: Jon E. Fields | Approved by Environmental Specialist: | |
| Title: Director, Environmental | Approval Date: 4/27/2016 | Expiration Date: |
| E-mail Address: jefields@eprod.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 4/4/16 | Phone: (713)381-6684 | |

* Attach Additional Sheets If Necessary

NCS 1608336451

1

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

JUN 13 2016 Form C-141
Revised August 8, 2011
Submit 1 Copy to appropriate District Office
in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR Initial Report Final Report

| | |
|--|---|
| Name of Company: Enterprise Field Services LLC | Contact: Thomas Long |
| Address: 614 Reilly Ave, Farmington, NM 87401 | Telephone No. 505-599-2286 |
| Facility Name: Lateral 2C | Facility Type: Natural Gas Gathering Pipeline |
| Surface Owner: BLM | Mineral Owner: BLM |
| Serial Number: NM 0016105 | |

LOCATION OF RELEASE

| | | | | | | | | |
|------------------|--------------|-----------------|-------------|-----------------------|-----------------------------|----------------------|---------------------------|--------------------|
| Unit Letter D | Section 1 | Township 25N | Range 8W | Feet from the 1036 | North/ <u>South</u> Line | Feet from the 492 | East/ <u>West</u> Line | County San Juan |
|------------------|--------------|-----------------|-------------|-----------------------|-----------------------------|----------------------|---------------------------|--------------------|

Latitude 36.43331 Longitude -107.64040

NATURE OF RELEASE

| | | |
|--|--|--|
| Type of Release: Natural Gas and Condensate | Volume of Release 28.71 MCF Gas; | Volume Recovered: None |
| Source of Release: Internal Corrosion | Date and Hour of Occurrence: 3/4/2016 @ 4:00 p.m. | Date and Hour of Discovery: 3/4/2016 @ 6:00 p.m. |
| Was Immediate Notice Given? Required <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not | If YES, To Whom? Courtesy Notification: Cory Smith - NMOCD; Katherina Diemer - BLM | |
| By Whom? Thomas Long | Date and Time March 22, 2016 @ 1:59 p.m. | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume | |

If a Watercourse was Impacted, Describe Fully.*
Describe Cause of Problem and Remedial Action: On March 4, 2016, Enterprise technicians discovered a gas leak on the Lateral 2C pipeline. A small amount of fluids were observed at the ground surface. The pipeline was isolated, blown down, locked out and tagged out. Initial repair and remediation activities were not initiated until March 17, 2016. Enterprise has determined this release to be reportable per NMOCD and BLM regulation on March 22, 2016 due the volume of subsurface impacts.

Describe Area Affected and Cleanup Action: The contaminant mass was removed by mechanical excavation. The final excavation measured approximately 66 feet long by 15 feet wide ranging from five to 18 feet deep. Approximately 276 cubic yards of hydrocarbon impacted soil were excavated and transported to a New Mexico Oil Conservation approved land farm facility. A third party corrective action report is included with this "Final" C-141.

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: <i>Jon Fields</i> | OIL CONSERVATION DIVISION | |
| Printed Name: Jon E. Fields | Approved by Environmental Specialist: <i>[Signature]</i> | |
| Title: Director, Environmental | Approval Date: <u>6/30/2016</u> | Expiration Date: |
| E-mail Address: jefields@eprod.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: <u>6-8-2016</u> Phone: (713)381-6684 | | |

* Attach Additional Sheets If Necessary

NCS16083326451

44



CORRECTIVE ACTION REPORT

Property:

**Lateral 2C (3/4/16) Pipeline Release
NW 1/4, S1 T25N R8W
San Juan County, New Mexico**

May 17, 2016
Apex Project No. 725040112145

Prepared for:

**Enterprise Field Services LLC
614 Reilly Avenue
Farmington, NM 87401
Attn: Mr. Thomas Long**

Prepared by:

A handwritten signature in blue ink, reading 'Rane Dechilly', written over a horizontal line.

Ranee Dechilly
Project Scientist

A handwritten signature in blue ink, reading 'Kyle Summers', written over a horizontal line.

Kyle Summers, CPG
Branch Manager/Senior Geologist

TABLE OF CONTENTS

| | | |
|------------|--|----------|
| 1.0 | INTRODUCTION | 1 |
| 1.1 | Site Description & Background | 1 |
| 1.2 | Project Objective | 1 |
| 2.0 | SITE RANKING | 1 |
| 3.0 | RESPONSE ACTIONS | 2 |
| 3.1 | Soil Excavation Activities | 2 |
| 3.2 | Soil Sampling Program | 3 |
| 3.3 | Laboratory Analytical Methods | 3 |
| 4.0 | DATA EVALUATION | 3 |
| 4.1 | Confirmation Soil Samples | 3 |
| 5.0 | FINDINGS AND RECOMMENDATIONS | 4 |
| 6.0 | STANDARD OF CARE, LIMITATIONS, AND RELIANCE | 5 |

LIST OF APPENDICES

| | |
|--------------------|--|
| Appendix A: | Figure 1 – Topographic Map Figure 2 – Site Vicinity Map Figure 3 – Site Map with Soil Analytical Results |
| Appendix B: | Executed C-138 Solid Waste Acceptance Form |
| Appendix C: | Photographic Documentation |
| Appendix D: | Table |
| Appendix E: | Laboratory Analytical Reports & Chain of Custody Documentation |



CORRECTIVE ACTION REPORT

Lateral 2C (3/4/16) Pipeline Release

NW 1/4, S1 T25N R8W
San Juan County, New Mexico

Apex Project No. 725040112145

1.0 INTRODUCTION

1.1 Site Description & Background

The Lateral 2C pipeline release site is located within the Enterprise Field Services, LLC (Enterprise) pipeline right-of-way (ROW) in the northwest (NW) ¼ of Section 1, Township 25 North, Range 8 West, in rural San Juan County, New Mexico (36.43331N, 107.64008W), referred to hereinafter as the "Site" or "subject Site". The Site is located on land managed by the United States Bureau of Land Management (BLM). The Site is surrounded by native vegetation rangeland periodically interrupted by oil and gas production and gathering facilities, including the Enterprise natural gas gathering pipeline which traverses the area from approximately east to west.

On March 4, 2016, Enterprise identified a release from the Lateral 2C pipeline and initiated excavation activities to facilitate the repair of the pipeline, and to remediate potential hydrocarbon impact. The point of release, which resulted from internal corrosion, was identified, and approximately 20 feet of the pipeline was replaced.

A topographic map depicting the location of the Site is included as Figure 1, and a Site Vicinity Map is included as Figure 2 in Appendix A.

1.2 Project Objective

The primary objective of the corrective action was to reduce the concentration of constituents of concern (COCs) in the on-Site soils to below the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) *Remediation Action Levels (RALs)* using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

2.0 SITE RANKING

In accordance with the New Mexico ENMRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases*, Apex utilized the general site characteristics obtained during the completion of corrective action activities to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:



| Ranking Criteria | | | Ranking Score |
|--|-------------------|----|---------------|
| Depth to Groundwater | <50 feet | 20 | 20 |
| | 50 to 99 feet | 10 | |
| | >100 feet | 0 | |
| Wellhead Protection Area • <1,000 feet from a water source, or; <200 feet from private domestic water source. | Yes | 20 | 0 |
| | No | 0 | |
| Distance to Surface Water Body | <200 feet | 20 | 20 |
| | 200 to 1,000 feet | 10 | |
| | >1,000 feet | 0 | |
| Total Ranking Score | | | 40 |

Based on Apex's evaluation of the scoring criteria, the Site would earn a maximum Total Ranking Score of "40". This ranking is based on the following:

- Depth to groundwater is anticipated to be less than 50 feet below grade surface (bgs) based on proximity to the nearby ephemeral wash and associated types of vegetation, resulting in a ranking of "20" for depth to groundwater.
- No water source wells (municipal/community wells) were identified within 1,000 feet of the Site. No private domestic water sources were identified within 200 feet of the Site. These proximities result in a wellhead protection area ranking of "0".
- The release point is located approximately 150 feet from an ephemeral wash, which is identified as a "blue line" on the United States Geological Society topographic map. This information supports a distance to surface water ranking of "20".

3.0 RESPONSE ACTIONS

3.1 Soil Excavation Activities

On March 4, 2016, Enterprise identified a release from the Lateral 2C pipeline and initiated excavation activities to facilitate the repair of the pipeline, and to remediate potential hydrocarbon impact. The point of release, which resulted from internal corrosion, was identified and approximately 20 feet of the pipeline was replaced. During the corrective action activities, West States Energy Contractors, Inc., provided heavy equipment and labor support, and Rane Dechilly, an Apex environmental professional, provided environmental support.

Subsequent to the initial excavation activities to expose the pipeline, confirmation soil samples (S-1 through S-8) were collected from the sidewalls and base of the excavation on March 17, 2016 for laboratory analysis. Laboratory analytical results indicated that the base (S-5) of the eastern portion of the excavation still exhibited evidence of hydrocarbon impact.

On March 23, 2016, the eastern portion of the excavation was over-excavated to remove hydrocarbon affected soils from the base. Confirmation soils samples S-9 through S-12 were collected from the extended excavation sidewalls and floor.

The final excavation measured approximately 66 feet long by 15 feet wide at the maximum extents. Total depths of the sloped excavation ranged from approximately six (6) feet bgs to 11 feet bgs on the western half and from approximately five (5) feet bgs to 18 feet bgs on the eastern half.

The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated sand and silty sand underlain by clay

A total of approximately 276 cubic yards of hydrocarbon affected soils were transported to the Envirotech, Inc. (Envirotech) landfarm near Hilltop, NM for disposal/remediation. The executed C-138 form is provided in Appendix B. The excavation was backfilled with clean imported fill and contoured to surrounding grade.

Figure 3 is a site map that indicates the approximate location of the excavated area in relation to pertinent land features (Appendix A). Photographic documentation of the field activities is included in Appendix C.

3.2 Soil Sampling Program

Apex screened head-space samples of the impacted soils with a photoionization detector (PID) fitted with a 10.6 eV lamp to estimate excavation limits.

Apex's soil sampling program included the collection of 12 confirmation samples (S-1 through S-12) from the sidewalls and base of the excavation for laboratory analysis. Soils associated with confirmation sample S-5 were removed during the second stage of excavation.

The confirmation soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied label, and placed on ice in a cooler, which was secured with a custody seal. The samples and completed chain-of-custody form were relinquished to Hall Environmental Laboratory of Albuquerque, New Mexico for analysis.

3.3 Laboratory Analytical Methods

The confirmation soil samples were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA SW-846 Method #8021, and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (GRO) using EPA SW-846 Method #8015.

Laboratory results are summarized in Table 1, included in Appendix D. The executed chain-of-custody form and laboratory data sheets are provided in Appendix E.

4.0 DATA EVALUATION

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to condensate releases, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules, specifically NMAC 19.15.29 *Release Notification*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

4.1 Confirmation Soil Samples

Apex compared the BTEX and TPH concentrations or practical quantitation limits (PQLs) associated with the final confirmation samples (S-1 through S-12) collected from the excavated area to the OCD RALs for sites having a total ranking score of "40". Sample S-5, removed during over-excavation and transported to Envirotech for disposal/treatment, is not included in the following discussion.

- The laboratory analyses of the confirmation samples from soils remaining in place did not indicate benzene concentrations above the PQLs, which are below the OCD RAL of 10 milligrams per kilogram (mg/kg).
- The laboratory analyses of the confirmation samples from soils remaining in place did not indicate total BTEX concentrations above the PQLs, which are below the OCD RAL of 50 mg/kg.
- The laboratory analyses of the confirmation samples collected from soils remaining in place did not indicate combined TPH GRO/DRO concentrations above the PQLs, which are below the OCD RAL of 100 mg/kg for a Site ranking of "40".

Confirmation sample laboratory analytical results are provided in Table 1 in Appendix D.

5.0 FINDINGS AND RECOMMENDATIONS

The Lateral 2C pipeline release site is located within the Enterprise ROW in the NW ¼ of Section 1, Township 25 North, Range 8 West, in rural San Juan County, New Mexico. The Site is located on land managed by the BLM. The Site is surrounded by native vegetation rangeland periodically interrupted by oil and gas production and gathering facilities, including the Enterprise natural gas gathering pipeline which traverses the area from approximately east to west.

On March 4, 2016, Enterprise identified a release from the Lateral 2C pipeline and initiated excavation activities to facilitate the repair of the pipeline, and to remediate potential hydrocarbon impact. The point of release, which resulted from internal corrosion, was identified and approximately 20 feet of the pipeline was replaced.

- The primary objective of the corrective actions was to reduce the concentration of COCs in the on-Site soils to below the New Mexico EMNRD OCD RALs using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.
- The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated sand and silty sand underlain by clay.
- The final excavation measured approximately 66 feet long by 15 feet wide at the maximum extents. Total depths of the sloped excavation ranged from approximately six (6) feet bgs to 11 feet bgs on the western half and from approximately five (5) feet bgs to 18 feet bgs on the eastern half.
- Prior to backfilling, 12 confirmation soil samples were collected from the resulting excavation for laboratory analyses. Soil sample S-5 was removed by over-excavation. Based on analytical results, soils remaining in place do not exhibit BTEX or TPH GRO/DRO concentrations above the OCD RALs for a site ranking of "40".
- A total of approximately 276 cubic yards of hydrocarbon affected soils were transported to the Envirotech landfarm on near Hilltop, NM for disposal/remediation. The excavation was backfilled with clean imported fill and contoured to the approximate surrounding grade.

Based on the laboratory analytical results, no additional investigation or corrective action appears warranted at this time.



6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

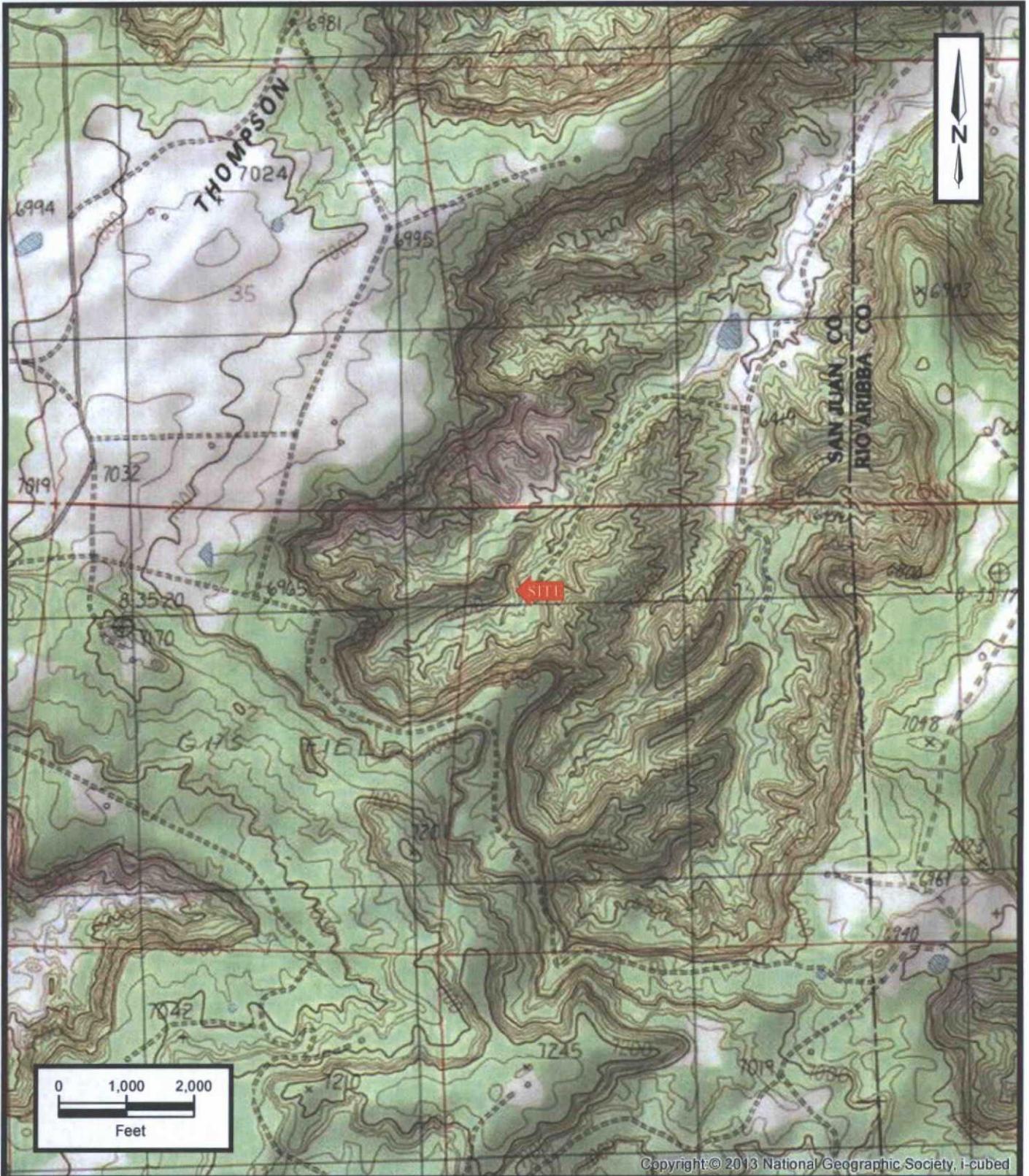
Apex's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Apex makes no warranties, expressed or implied, as to the services performed or described herein. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Apex cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Apex's findings and recommendations are based solely upon data available to Apex at the time of these services.

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.

APPENDIX A

Figures



Copyright © 2013 National Geographic Society, i-cubed

Lateral 2C (3/4/16) Pipeline Release
 NW1/4 Sec1 T25N R8W
 San Juan County, New Mexico
 36.43331N, 107.64008W



Apex TITAN, Inc.
 606 South Rio Grande, Suite A
 Aztec, NM 87410
 Phone: (505) 334-5200
 www.apexcos.com
 A Subsidiary of Apex Companies, LLC

FIGURE 1
Topographic Map
 Thompson Mesa, NM Quadrangle
 1985

Project No. 725040112145



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

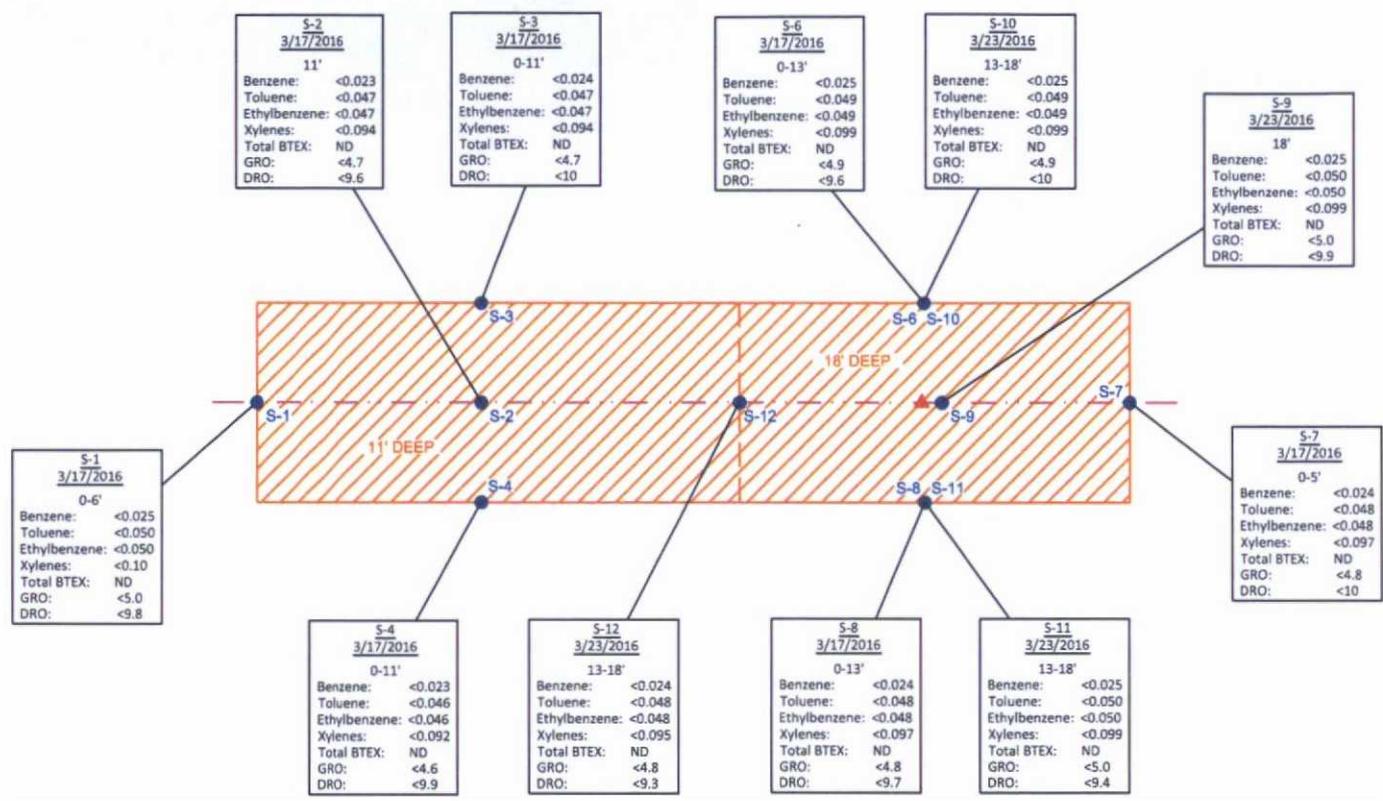
Lateral 2C (3/4/16) Pipeline Release
 NW1/4 Sec1 T25N R8W
 San Juan County, New Mexico
 36.43331N, 107.64008W

Project No. 725040112145



Apex TITAN, Inc.
 606 South Rio Grande, Suite A
 Aztec, NM 87410
 Phone: (505) 334-5200
 www.apexcos.com
 A Subsidiary of Apex Companies, LLC

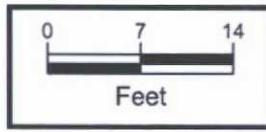
FIGURE 2
Site Vicinity Map



LEGEND:

- APPROXIMATE PIPELINE LOCATION
- SAMPLE LOCATION
- RELEASE POINT
- EXTENT OF EXCAVATION

NOTE: ALL VALUES ARE REPRESENTED IN mg/kg;
ND - NOT DETECTED



Lateral 2C (3/4/16) Pipeline Release
 NW1/4 Sec1 T25N R8W
 San Juan County, New Mexico
 36.43331N, 107.64008W

Project No. 725040112145

Apex TITAN, Inc.
 606 S. Rio Grande, Suite A
 Aztec, New Mexico 87410
 Phone: (505) 334-5200
www.apexcos.com
 A Subsidiary of Apex Companies, LLC

FIGURE 3
 Site Map with
 Soil Analytical Results

APPENDIX B

Executed C-138 Solid Waste Acceptance Forms

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

97057-0719

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

| |
|---|
| 1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401 |
| 2. Originating Site: Lateral 2C Pipeline |
| 3. Location of Material (Street Address, City, State or ULSTR): Unit Letter D Section 1 Township 25 North Range 5 West; 36.43331, -107.64040 |
| 4. Source and Description of Waste: Hydrocarbon impacted soil associated with a pipeline release. |
| 5. Estimated Volume <u>100</u> (yd ³) bbls Known Volume (to be entered by the operator at the end of the haul) <u>276</u> (yd ³) bbls |

March 2016

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long *Thomas Long* representative or authorized agent for Enterprise Field Services, LLC do hereby
PRINT & SIGN NAME **COMPANY NAME**
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* Monthly Weekly Per Load

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long *Thomas Long* 3-23-16, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, [Signature], representative for Envirotech, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

6. Transporter Doug Foutz, HBL, West States

OCD Permitted Surface Waste Management Facility
Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility * Permit #: NM 01-0011
Address of Facility: Hilltop, NM

Method of Treatment and/or Disposal:
 Evaporation Injection Treating Plant Landfarm Landfill Other

Waste Acceptance Status:
 APPROVED DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Eric Liese TITLE: Landfarm Admin DATE: 3-23-16
SIGNATURE: [Signature] TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

APPENDIX C
Photographic Documentation

Photograph 1

View of the release area and initial excavation, facing west.

**Photograph 2**

View of in-process corrective action activities, facing northeast.

**Photograph 3**

View of the final excavation, facing southwest.



Photograph 4

View of the final excavation, facing west.



APPENDIX D

Table



TABLE 1
Lateral 2C (3/4/16) Pipeline Release
SOIL ANALYTICAL SUMMARY

| Sample I.D. | Date | Sample Depth (feet) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Xylenes (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) |
|--|----------|---------------------|-----------------|-----------------|----------------------|-----------------|--------------------|-----------------|-----------------|
| New Mexico Energy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level | | | 10 | NE | NE | NE | 50 | 100 | |
| Samples Removed by Excavation | | | | | | | | | |
| S-5 | 03.17.16 | 1 to 6 | <0.024 | 0.057 | 0.17 | 1.1 | 1.3 | 61 | 120 |
| Excavation Confirmation Samples | | | | | | | | | |
| S-1 | 03.17.16 | 0 to 6 | <0.025 | <0.050 | <0.050 | <0.10 | ND | <5.0 | <9.8 |
| S-2 | 03.17.16 | 11 | <0.023 | <0.047 | <0.047 | <0.094 | ND | <4.7 | <9.6 |
| S-3 | 03.17.16 | 0 to 11 | <0.024 | <0.047 | <0.047 | <0.094 | ND | <4.7 | <10 |
| S-4 | 03.17.16 | 0 to 11 | <0.023 | <0.046 | <0.046 | <0.092 | ND | <4.6 | <9.9 |
| S-6 | 03.17.16 | 0 to 13 | <0.025 | <0.049 | <0.049 | <0.099 | ND | <4.9 | <9.6 |
| S-7 | 03.17.16 | 0 to 5 | <0.024 | <0.048 | <0.048 | <0.097 | ND | <4.8 | <10 |
| S-8 | 03.17.16 | 0 to 13 | <0.024 | <0.048 | <0.048 | <0.097 | ND | <4.8 | <9.7 |
| S-9 | 03.23.16 | 18 | <0.025 | <0.050 | <0.050 | <0.099 | ND | <5.0 | <9.9 |
| S-10 | 03.23.16 | 13 to 18 | <0.025 | <0.049 | <0.049 | <0.099 | ND | <4.9 | <10 |
| S-11 | 03.23.16 | 13 to 18 | <0.025 | <0.050 | <0.050 | <0.099 | ND | <5.0 | <9.4 |
| S-12 | 03.23.16 | 13 to 18 | <0.024 | <0.048 | <0.048 | <0.095 | ND | <4.8 | <9.3 |

Note: Concentrations in bold and yellow exceed the applicable OCD Remediation Action Level

ND = Not Detected above the Laboratory Reporting Limits

NE = Not established

APPENDIX E

Laboratory Analytical Reports & Chain of Custody Documentation



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 22, 2016

Kyle Summers
APEX TITAN
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Lateral 2C

OrderNo.: 1603959

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 3/18/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-1

Project: Lateral 2C

Collection Date: 3/17/2016 11:30:00 AM

Lab ID: 1603959-001

Matrix: SOIL

Received Date: 3/18/2016 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 3/19/2016 6:54:50 PM | 24325 |
| Surr: DNOP | 84.1 | 70-130 | | %Rec | 1 | 3/19/2016 6:54:50 PM | 24325 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 3/20/2016 7:59:58 PM | 24330 |
| Surr: BFB | 107 | 66.2-112 | | %Rec | 1 | 3/20/2016 7:59:58 PM | 24330 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 3/20/2016 7:59:58 PM | 24330 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 3/20/2016 7:59:58 PM | 24330 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 3/20/2016 7:59:58 PM | 24330 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 3/20/2016 7:59:58 PM | 24330 |
| Surr: 4-Bromofluorobenzene | 108 | 80-120 | | %Rec | 1 | 3/20/2016 7:59:58 PM | 24330 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1603959

Date Reported: 3/22/2016

CLIENT: APEX TITAN

Client Sample ID: S-2

Project: Lateral 2C

Collection Date: 3/17/2016 11:35:00 AM

Lab ID: 1603959-002

Matrix: SOIL

Received Date: 3/18/2016 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 3/19/2016 7:16:25 PM | 24325 |
| Surr: DNOP | 84.6 | 70-130 | | %Rec | 1 | 3/19/2016 7:16:25 PM | 24325 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 3/20/2016 8:23:25 PM | 24330 |
| Surr: BFB | 105 | 66.2-112 | | %Rec | 1 | 3/20/2016 8:23:25 PM | 24330 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 3/20/2016 8:23:25 PM | 24330 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 3/20/2016 8:23:25 PM | 24330 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 3/20/2016 8:23:25 PM | 24330 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 3/20/2016 8:23:25 PM | 24330 |
| Surr: 4-Bromofluorobenzene | 106 | 80-120 | | %Rec | 1 | 3/20/2016 8:23:25 PM | 24330 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Qualifiers: | | |
|-------------|---|---|
| * | Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1603959

Date Reported: 3/22/2016

CLIENT: APEX TITAN

Client Sample ID: S-3

Project: Lateral 2C

Collection Date: 3/17/2016 11:40:00 AM

Lab ID: 1603959-003

Matrix: SOIL

Received Date: 3/18/2016 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 3/19/2016 7:37:56 PM | 24325 |
| Surr: DNOP | 88.0 | 70-130 | | %Rec | 1 | 3/19/2016 7:37:56 PM | 24325 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 3/20/2016 9:57:40 PM | 24330 |
| Surr: BFB | 110 | 66.2-112 | | %Rec | 1 | 3/20/2016 9:57:40 PM | 24330 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 3/20/2016 9:57:40 PM | 24330 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 3/20/2016 9:57:40 PM | 24330 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 3/20/2016 9:57:40 PM | 24330 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 3/20/2016 9:57:40 PM | 24330 |
| Surr: 4-Bromofluorobenzene | 112 | 80-120 | | %Rec | 1 | 3/20/2016 9:57:40 PM | 24330 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1603959

Date Reported: 3/22/2016

CLIENT: APEX TITAN

Client Sample ID: S-4

Project: Lateral 2C

Collection Date: 3/17/2016 11:45:00 AM

Lab ID: 1603959-004

Matrix: SOIL

Received Date: 3/18/2016 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 3/19/2016 7:59:34 PM | 24325 |
| Surr: DNOP | 86.7 | 70-130 | | %Rec | 1 | 3/19/2016 7:59:34 PM | 24325 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 3/20/2016 10:20:54 PM | 24330 |
| Surr: BFB | 107 | 66.2-112 | | %Rec | 1 | 3/20/2016 10:20:54 PM | 24330 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 3/20/2016 10:20:54 PM | 24330 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 3/20/2016 10:20:54 PM | 24330 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 3/20/2016 10:20:54 PM | 24330 |
| Xylenes, Total | ND | 0.092 | | mg/Kg | 1 | 3/20/2016 10:20:54 PM | 24330 |
| Surr: 4-Bromofluorobenzene | 109 | 80-120 | | %Rec | 1 | 3/20/2016 10:20:54 PM | 24330 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Qualifiers: | | |
|-------------|---|---|
| * | Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1603959
 Date Reported: 3/22/2016

CLIENT: APEX TITAN

Client Sample ID: S-5

Project: Lateral 2C

Collection Date: 3/17/2016 11:50:00 AM

Lab ID: 1603959-005

Matrix: SOIL

Received Date: 3/18/2016 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | 120 | 9.9 | | mg/Kg | 1 | 3/19/2016 8:20:57 PM | 24325 |
| Surr: DNOP | 85.6 | 70-130 | | %Rec | 1 | 3/19/2016 8:20:57 PM | 24325 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 61 | 4.8 | | mg/Kg | 1 | 3/21/2016 8:58:57 AM | 24330 |
| Surr: BFB | 582 | 66.2-112 | S | %Rec | 1 | 3/21/2016 8:58:57 AM | 24330 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 3/21/2016 8:58:57 AM | 24330 |
| Toluene | 0.057 | 0.048 | | mg/Kg | 1 | 3/21/2016 8:58:57 AM | 24330 |
| Ethylbenzene | 0.17 | 0.048 | | mg/Kg | 1 | 3/21/2016 8:58:57 AM | 24330 |
| Xylenes, Total | 1.1 | 0.096 | | mg/Kg | 1 | 3/21/2016 8:58:57 AM | 24330 |
| Surr: 4-Bromofluorobenzene | 133 | 80-120 | S | %Rec | 1 | 3/21/2016 8:58:57 AM | 24330 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Qualifiers: | | |
|-------------|---|---|
| * | Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-6

Project: Lateral 2C

Collection Date: 3/17/2016 11:55:00 AM

Lab ID: 1603959-006

Matrix: SOIL

Received Date: 3/18/2016 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 3/19/2016 8:42:21 PM | 24325 |
| Surr: DNOP | 86.6 | 70-130 | | %Rec | 1 | 3/19/2016 8:42:21 PM | 24325 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 3/20/2016 11:08:08 PM | 24330 |
| Surr: BFB | 109 | 66.2-112 | | %Rec | 1 | 3/20/2016 11:08:08 PM | 24330 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 3/20/2016 11:08:08 PM | 24330 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 3/20/2016 11:08:08 PM | 24330 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 3/20/2016 11:08:08 PM | 24330 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 3/20/2016 11:08:08 PM | 24330 |
| Surr: 4-Bromofluorobenzene | 112 | 80-120 | | %Rec | 1 | 3/20/2016 11:08:08 PM | 24330 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
 Project: Lateral 2C
 Lab ID: 1603959-007

Client Sample ID: S-7
 Collection Date: 3/17/2016 12:00:00 PM
 Received Date: 3/18/2016 7:30:00 AM

Matrix: SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 3/19/2016 9:03:39 PM | 24325 |
| Surr: DNOP | 92.9 | 70-130 | | %Rec | 1 | 3/19/2016 9:03:39 PM | 24325 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 3/20/2016 11:31:37 PM | 24330 |
| Surr: BFB | 109 | 66.2-112 | | %Rec | 1 | 3/20/2016 11:31:37 PM | 24330 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 3/20/2016 11:31:37 PM | 24330 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 3/20/2016 11:31:37 PM | 24330 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 3/20/2016 11:31:37 PM | 24330 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 3/20/2016 11:31:37 PM | 24330 |
| Surr: 4-Bromofluorobenzene | 110 | 80-120 | | %Rec | 1 | 3/20/2016 11:31:37 PM | 24330 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-8

Project: Lateral 2C

Collection Date: 3/17/2016 12:05:00 PM

Lab ID: 1603959-008

Matrix: SOIL

Received Date: 3/18/2016 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 3/19/2016 9:25:01 PM | 24325 |
| Surr: DNOP | 118 | 70-130 | | %Rec | 1 | 3/19/2016 9:25:01 PM | 24325 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 3/20/2016 11:55:10 PM | 24330 |
| Surr: BFB | 106 | 66.2-112 | | %Rec | 1 | 3/20/2016 11:55:10 PM | 24330 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 3/20/2016 11:55:10 PM | 24330 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 3/20/2016 11:55:10 PM | 24330 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 3/20/2016 11:55:10 PM | 24330 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 3/20/2016 11:55:10 PM | 24330 |
| Surr: 4-Bromofluorobenzene | 108 | 80-120 | | %Rec | 1 | 3/20/2016 11:55:10 PM | 24330 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603959

22-Mar-16

Client: APEX TITAN

Project: Lateral 2C

| | | | | | | | | | | |
|-----------------------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | LCS-24325 | SampType: | LCS | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 24325 | RunNo: | 32886 | | | | | |
| Prep Date: | 3/18/2016 | Analysis Date: | 3/18/2016 | SeqNo: | 1008166 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 37 | 10 | 50.00 | 0 | 74.0 | 65.8 | 136 | | | |
| Surr: DNOP | 4.3 | | 5.000 | | 85.1 | 70 | 130 | | | |

| | | | | | | | | | | |
|-----------------------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | MB-24325 | SampType: | MBLK | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 24325 | RunNo: | 32886 | | | | | |
| Prep Date: | 3/18/2016 | Analysis Date: | 3/18/2016 | SeqNo: | 1008167 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Surr: DNOP | 8.3 | | 10.00 | | 83.0 | 70 | 130 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603959

22-Mar-16

Client: APEX TITAN

Project: Lateral 2C

| | | | | | | | | | | |
|-------------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | MB-24330 | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 24330 | RunNo: | 32911 | | | | | |
| Prep Date: | 3/18/2016 | Analysis Date: | 3/19/2016 | SeqNo: | 1008954 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 920 | | 1000 | | 91.6 | 66.2 | 112 | | | |

| | | | | | | | | | | |
|-------------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | LCS-24330 | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 24330 | RunNo: | 32911 | | | | | |
| Prep Date: | 3/18/2016 | Analysis Date: | 3/19/2016 | SeqNo: | 1008955 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 23 | 5.0 | 25.00 | 0 | 91.2 | 80 | 120 | | | |
| Surr: BFB | 1000 | | 1000 | | 101 | 66.2 | 112 | | | |

| | | | | | | | | | | |
|-------------------------------|-----------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | 1603959-002AMS | SampType: | MS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | S-2 | Batch ID: | 24330 | RunNo: | 32911 | | | | | |
| Prep Date: | 3/18/2016 | Analysis Date: | 3/19/2016 | SeqNo: | 1008956 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 26 | 4.8 | 23.83 | 0 | 109 | 59.3 | 143 | | | |
| Surr: BFB | 990 | | 953.3 | | 104 | 66.2 | 112 | | | |

| | | | | | | | | | | |
|-------------------------------|------------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | 1603959-002AMSD | SampType: | MSD | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | S-2 | Batch ID: | 24330 | RunNo: | 32911 | | | | | |
| Prep Date: | 3/18/2016 | Analysis Date: | 3/19/2016 | SeqNo: | 1008957 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 27 | 4.9 | 24.46 | 0 | 109 | 59.3 | 143 | 2.42 | 20 | |
| Surr: BFB | 1000 | | 978.5 | | 107 | 66.2 | 112 | 0 | 0 | |

| | | | | | | | | | | |
|------------|---------------|----------------|------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | 5ML RB | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | A32945 | RunNo: | 32945 | | | | | |
| Prep Date: | | Analysis Date: | 3/21/2016 | SeqNo: | 1010206 | Units: | %Rec | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 1100 | | 1000 | | 108 | 66.2 | 112 | | | |

| | | | | | | | | | | |
|------------|----------------------|----------------|------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | 2.5UG GRO LCS | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | A32945 | RunNo: | 32945 | | | | | |
| Prep Date: | | Analysis Date: | 3/21/2016 | SeqNo: | 1010207 | Units: | %Rec | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 1200 | | 1000 | | 117 | 66.2 | 112 | | | S |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603959

22-Mar-16

Client: APEX TITAN

Project: Lateral 2C

| Sample ID | MB-24330 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-----------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Client ID: | PBS | Batch ID: | 24330 | RunNo: | 32911 | | | | | |
| Prep Date: | 3/18/2016 | Analysis Date: | 3/19/2016 | SeqNo: | 1008974 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 114 | 80 | 120 | | | |

| Sample ID | LCS-24330 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-----------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 24330 | RunNo: | 32911 | | | | | |
| Prep Date: | 3/18/2016 | Analysis Date: | 3/19/2016 | SeqNo: | 1008975 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.91 | 0.025 | 1.000 | 0 | 90.8 | 80 | 120 | | | |
| Toluene | 0.99 | 0.050 | 1.000 | 0 | 99.2 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 99.8 | 80 | 120 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 101 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.2 | | 1.000 | | 120 | 80 | 120 | | | S |

| Sample ID | 1603959-001AMS | SampType: | MS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|----------------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Client ID: | S-1 | Batch ID: | 24330 | RunNo: | 32911 | | | | | |
| Prep Date: | 3/18/2016 | Analysis Date: | 3/19/2016 | SeqNo: | 1008976 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.94 | 0.025 | 0.9872 | 0 | 95.1 | 71.5 | 122 | | | |
| Toluene | 1.0 | 0.049 | 0.9872 | 0 | 105 | 71.2 | 123 | | | |
| Ethylbenzene | 1.0 | 0.049 | 0.9872 | 0 | 106 | 75.2 | 130 | | | |
| Xylenes, Total | 3.2 | 0.099 | 2.962 | 0 | 108 | 72.4 | 131 | | | |
| Surr: 4-Bromofluorobenzene | 1.2 | | 0.9872 | | 119 | 80 | 120 | | | |

| Sample ID | 1603959-001AMSD | SampType: | MSD | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-----------------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Client ID: | S-1 | Batch ID: | 24330 | RunNo: | 32911 | | | | | |
| Prep Date: | 3/18/2016 | Analysis Date: | 3/19/2016 | SeqNo: | 1008977 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.95 | 0.024 | 0.9452 | 0 | 101 | 71.5 | 122 | 1.22 | 20 | |
| Toluene | 1.1 | 0.047 | 0.9452 | 0 | 112 | 71.2 | 123 | 2.60 | 20 | |
| Ethylbenzene | 1.1 | 0.047 | 0.9452 | 0 | 118 | 75.2 | 130 | 6.08 | 20 | |
| Xylenes, Total | 3.4 | 0.095 | 2.836 | 0 | 118 | 72.4 | 131 | 4.67 | 20 | |
| Surr: 4-Bromofluorobenzene | 1.2 | | 0.9452 | | 126 | 80 | 120 | 0 | 0 | S |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1603959

RcptNo: 1

Received by/date: *[Signature]* 03/18/16

Logged By: Lindsay Mangin 3/18/2016 7:30:00 AM *[Signature]*

Completed By: Lindsay Mangin 3/18/2016 8:43:27 AM *[Signature]*

Reviewed By: *[Signature]* 03/18/16

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 1.3 | Good | Yes | | | |

CHAIN OF CUSTODY RECORD

APEX
 Office Location Aztec, NM
 Project Manager K. Summers

Laboratory: Hall Environmental
 Address: Albuquerque, NM
 Contact: A. Freeman
 PO/SO #:

ANALYSIS REQUESTED

8021 BTEX
8015 TPH (P&O) (P&O)

Lab use only
 Due Date:
 Temp. of coolers when received (C°): 13
 1 2 3 4 5
 Page 1 of 1

Sampler's Name Ranee Deechilly Sampler's Signature Ranee Deechilly
 Proj. No. Project Name Lateral 2C No/Type of Containers

| Matrix | Date | Time | C | G | Identifying Marks of Sample(s) | Start Depth | End Depth | VOA | AG 1L | 250 ml | Glass Jar | P/O | Lab Sample ID (Lab Use Only) |
|----------------|---------|------|---|---|--------------------------------|-------------|-----------|-----|-------|--------|-----------|-----|------------------------------|
| S | 3/17/16 | 1130 | | | S-1 | | | | | | | | X X 1603959-001 |
| S | | 1135 | | | S-2 | | | | | | | | -002 |
| S | | 1140 | | | S-3 | | | | | | | | -003 |
| S | | 1145 | | | S-4 | | | | | | | | -004 |
| S | | 1150 | | | S-5 | | | | | | | | -005 |
| S | | 1155 | | | S-6 | | | | | | | | -006 |
| S | | 1200 | | | S-7 | | | | | | | | -007 |
| S | ↓ | 1205 | | | S-8 | | | | | | | | -008 |
| NFS | | | | | | | | | | | | | |

Turn around time Normal 25% Rush 50% Rush 100% Rush 3 Day Turn

| | | | | | |
|--|----------------------|-------------------|--|-----------------------|-------------------|
| Relinquished by (Signature) <u>Ranee Deechilly</u> | Date: <u>3/17/16</u> | Time: <u>1530</u> | Received by (Signature) <u>Christine Wells</u> | Date: <u>3/17/16</u> | Time: <u>1530</u> |
| Relinquished by (Signature) <u>Christine Wells</u> | Date: <u>3/17/16</u> | Time: <u>1840</u> | Received by (Signature) <u>[Signature]</u> | Date: <u>03/18/16</u> | Time: <u>0720</u> |
| Relinquished by (Signature) | Date: | Time: | Received by (Signature) | Date: | Time: |
| Relinquished by (Signature) | Date: | Time: | Received by (Signature) | Date: | Time: |

NOTES: 3-day
Bill to Tom Long
NunAFE N24910

Matrix Container WW - Wastewater VOA - 40 ml vial W - Water A/G - Amber / Or Glass 1 Liter S - Soil SD - Solid L - Liquid 250 ml - Glass wide mouth A - Air Bag C - Charcoal tube SL - sludge O - Oil P/O - Plastic or other



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 28, 2016

Kyle Summers
APEX TITAN
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Lateral 2C

OrderNo.: 1603B94

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/24/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1603B94

Date Reported: 3/28/2016

CLIENT: APEX TITAN

Client Sample ID: S-9

Project: Lateral 2C

Collection Date: 3/23/2016 12:45:00 PM

Lab ID: 1603B94-001

Matrix: SOIL

Received Date: 3/24/2016 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 3/24/2016 1:35:33 PM | 24417 |
| Surr: DNOP | 75.9 | 70-130 | | %Rec | 1 | 3/24/2016 1:35:33 PM | 24417 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 3/25/2016 9:10:42 AM | 24428 |
| Surr: BFB | 106 | 66.2-112 | | %Rec | 1 | 3/25/2016 9:10:42 AM | 24428 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 3/25/2016 9:10:42 AM | 24428 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 3/25/2016 9:10:42 AM | 24428 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 3/25/2016 9:10:42 AM | 24428 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 3/25/2016 9:10:42 AM | 24428 |
| Surr: 4-Bromofluorobenzene | 108 | 80-120 | | %Rec | 1 | 3/25/2016 9:10:42 AM | 24428 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Qualifiers: | | |
|-------------|---|---|
| * | Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1603B94

Date Reported: 3/28/2016

CLIENT: APEX TITAN

Client Sample ID: S-10

Project: Lateral 2C

Collection Date: 3/23/2016 12:50:00 PM

Lab ID: 1603B94-002

Matrix: SOIL

Received Date: 3/24/2016 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 3/24/2016 1:57:04 PM | 24417 |
| Surr: DNOP | 77.8 | 70-130 | | %Rec | 1 | 3/24/2016 1:57:04 PM | 24417 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 3/25/2016 9:34:19 AM | 24428 |
| Surr: BFB | 107 | 66.2-112 | | %Rec | 1 | 3/25/2016 9:34:19 AM | 24428 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 3/25/2016 9:34:19 AM | 24428 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 3/25/2016 9:34:19 AM | 24428 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 3/25/2016 9:34:19 AM | 24428 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 3/25/2016 9:34:19 AM | 24428 |
| Surr: 4-Bromofluorobenzene | 109 | 80-120 | | %Rec | 1 | 3/25/2016 9:34:19 AM | 24428 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1603B94
 Date Reported: 3/28/2016

CLIENT: APEX TITAN

Client Sample ID: S-11

Project: Lateral 2C

Collection Date: 3/23/2016 1:00:00 PM

Lab ID: 1603B94-003

Matrix: SOIL

Received Date: 3/24/2016 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 9.4 | | mg/Kg | 1 | 3/24/2016 2:18:44 PM | 24417 |
| Surr: DNOP | 78.7 | 70-130 | | %Rec | 1 | 3/24/2016 2:18:44 PM | 24417 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 3/25/2016 9:57:57 AM | 24428 |
| Surr: BFB | 106 | 66.2-112 | | %Rec | 1 | 3/25/2016 9:57:57 AM | 24428 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 3/25/2016 9:57:57 AM | 24428 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 3/25/2016 9:57:57 AM | 24428 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 3/25/2016 9:57:57 AM | 24428 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 3/25/2016 9:57:57 AM | 24428 |
| Surr: 4-Bromofluorobenzene | 108 | 80-120 | | %Rec | 1 | 3/25/2016 9:57:57 AM | 24428 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1603B94

Date Reported: 3/28/2016

CLIENT: APEX TITAN

Client Sample ID: S-12

Project: Lateral 2C

Collection Date: 3/23/2016 1:05:00 PM

Lab ID: 1603B94-004

Matrix: SOIL

Received Date: 3/24/2016 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|--------|----------|------|-------|----|-----------------------|--------------|
| EPA METHOD 8015WD: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 9.3 | | mg/Kg | 1 | 3/24/2016 2:45:25 PM | 24417 |
| Surr: DNOP | 77.3 | 70-130 | | %Rec | 1 | 3/24/2016 2:45:25 PM | 24417 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 3/25/2016 10:21:38 AM | 24428 |
| Surr: BFB | 105 | 66.2-112 | | %Rec | 1 | 3/25/2016 10:21:38 AM | 24428 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 3/25/2016 10:21:38 AM | 24428 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 3/25/2016 10:21:38 AM | 24428 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 3/25/2016 10:21:38 AM | 24428 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 3/25/2016 10:21:38 AM | 24428 |
| Surr: 4-Bromofluorobenzene | 107 | 80-120 | | %Rec | 1 | 3/25/2016 10:21:38 AM | 24428 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603B94

28-Mar-16

Client: APEX TITAN

Project: Lateral 2C

| | | | | | | | | | | |
|-----------------------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | MB-24417 | SampType: | MBLK | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 24417 | RunNo: | 33037 | | | | | |
| Prep Date: | 3/24/2016 | Analysis Date: | 3/24/2016 | SeqNo: | 1013556 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Surr: DNOP | 7.8 | | 10.00 | | 78.3 | 70 | 130 | | | |

| | | | | | | | | | | |
|-----------------------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | LCS-24417 | SampType: | LCS | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 24417 | RunNo: | 33037 | | | | | |
| Prep Date: | 3/24/2016 | Analysis Date: | 3/24/2016 | SeqNo: | 1013808 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 37 | 10 | 50.00 | 0 | 74.2 | 65.8 | 136 | | | |
| Surr: DNOP | 4.1 | | 5.000 | | 81.9 | 70 | 130 | | | |

| | | | | | | | | | | |
|------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | LCS-24375 | SampType: | LCS | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 24375 | RunNo: | 33037 | | | | | |
| Prep Date: | 3/22/2016 | Analysis Date: | 3/24/2016 | SeqNo: | 1014202 | Units: | %Rec | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 5.1 | | 5.000 | | 103 | 70 | 130 | | | |

| | | | | | | | | | | |
|------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | MB-24375 | SampType: | MBLK | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 24375 | RunNo: | 33037 | | | | | |
| Prep Date: | 3/22/2016 | Analysis Date: | 3/24/2016 | SeqNo: | 1014203 | Units: | %Rec | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 9.7 | | 10.00 | | 97.3 | 70 | 130 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603B94

28-Mar-16

Client: APEX TITAN

Project: Lateral 2C

| Sample ID | MB-24428 | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
|-------------------------------|-----------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Client ID: | PBS | Batch ID: | 24428 | RunNo: | 33067 | | | | | |
| Prep Date: | 3/24/2016 | Analysis Date: | 3/25/2016 | SeqNo: | 1015282 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 1100 | | 1000 | | 105 | 66.2 | 112 | | | |

| Sample ID | LCS-24428 | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
|-------------------------------|-----------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 24428 | RunNo: | 33067 | | | | | |
| Prep Date: | 3/24/2016 | Analysis Date: | 3/25/2016 | SeqNo: | 1015283 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24 | 5.0 | 25.00 | 0 | 94.2 | 80 | 120 | | | |
| Surr: BFB | 1100 | | 1000 | | 114 | 66.2 | 112 | | | S |

| Sample ID | 1603B94-001AMS | SampType: | MS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
|-------------------------------|----------------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Client ID: | S-9 | Batch ID: | 24428 | RunNo: | 33067 | | | | | |
| Prep Date: | 3/24/2016 | Analysis Date: | 3/25/2016 | SeqNo: | 1015284 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 27 | 4.8 | 24.11 | 0 | 110 | 59.3 | 143 | | | |
| Surr: BFB | 1100 | | 964.3 | | 116 | 66.2 | 112 | | | S |

| Sample ID | 1603B94-001AMSD | SampType: | MSD | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
|-------------------------------|-----------------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Client ID: | S-9 | Batch ID: | 24428 | RunNo: | 33067 | | | | | |
| Prep Date: | 3/24/2016 | Analysis Date: | 3/25/2016 | SeqNo: | 1015285 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24 | 4.9 | 24.27 | 0 | 100 | 59.3 | 143 | 9.32 | 20 | |
| Surr: BFB | 1100 | | 970.9 | | 116 | 66.2 | 112 | 0 | 0 | S |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603B94

28-Mar-16

Client: APEX TITAN

Project: Lateral 2C

| Sample ID | MB-24428 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 24428 | RunNo: | 33067 | | | | | |
| Prep Date: | 3/24/2016 | Analysis Date: | 3/25/2016 | SeqNo: | 1015303 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 110 | 80 | 120 | | | |

| Sample ID | LCS-24428 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 24428 | RunNo: | 33067 | | | | | |
| Prep Date: | 3/24/2016 | Analysis Date: | 3/25/2016 | SeqNo: | 1015304 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.91 | 0.025 | 1.000 | 0 | 90.6 | 75.3 | 123 | | | |
| Toluene | 0.95 | 0.050 | 1.000 | 0 | 94.6 | 80 | 124 | | | |
| Ethylbenzene | 0.99 | 0.050 | 1.000 | 0 | 99.0 | 82.8 | 121 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 99.4 | 83.9 | 122 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 114 | 80 | 120 | | | |

| Sample ID | 1603B94-002AMS | SampType: | MS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-----------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | S-10 | Batch ID: | 24428 | RunNo: | 33067 | | | | | |
| Prep Date: | 3/24/2016 | Analysis Date: | 3/25/2016 | SeqNo: | 1015305 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.024 | 0.9718 | 0 | 104 | 71.5 | 122 | | | |
| Toluene | 1.0 | 0.049 | 0.9718 | 0 | 106 | 71.2 | 123 | | | |
| Ethylbenzene | 1.1 | 0.049 | 0.9718 | 0 | 110 | 75.2 | 130 | | | |
| Xylenes, Total | 3.2 | 0.097 | 2.915 | 0 | 109 | 72.4 | 131 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 0.9718 | | 118 | 80 | 120 | | | |

| Sample ID | 1603B94-002AMSD | SampType: | MSD | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|-------|----------|------|
| Client ID: | S-10 | Batch ID: | 24428 | RunNo: | 33067 | | | | | |
| Prep Date: | 3/24/2016 | Analysis Date: | 3/25/2016 | SeqNo: | 1015306 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.024 | 0.9606 | 0 | 108 | 71.5 | 122 | 3.06 | 20 | |
| Toluene | 1.1 | 0.048 | 0.9606 | 0 | 110 | 71.2 | 123 | 2.45 | 20 | |
| Ethylbenzene | 1.1 | 0.048 | 0.9606 | 0 | 111 | 75.2 | 130 | 0.249 | 20 | |
| Xylenes, Total | 3.2 | 0.096 | 2.882 | 0 | 112 | 72.4 | 131 | 1.20 | 20 | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 0.9606 | | 120 | 80 | 120 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87109
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1603B94

RcptNo: 1

Received by/date:

[Signature] *03/24/16*

Logged By: Lindsay Mangin

3/24/2016 7:30:00 AM

[Signature]

Completed By: Lindsay Mangin

3/24/2016 7:55:06 AM

[Signature]

Reviewed By:

[Signature] *3/24/16*

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

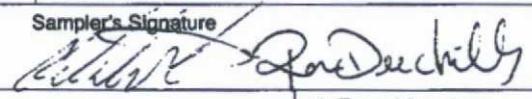
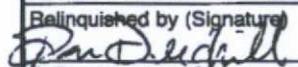
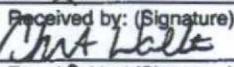
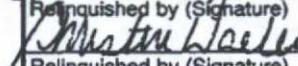
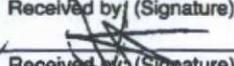
Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 1.2 | Good | Yes | | | |

CHAIN OF CUSTODY RECORD

|  APEX Office Location <u>Aztec, NM</u> | | Laboratory: <u>Hull</u> Address: <u>ABQ</u> | | ANALYSIS REQUESTED 8021 BTEX 8015 TPH GRO/PRO | | Lab use only Due Date: | | | | | | | |
|--|---------|---|-----------|---|--------------------------------|---|--------------|---|-----------|-----------|--------------|-----|------------------------------|
| | | Contact: <u>A. Freeman</u> Phone: | | | | Temp. of coolers <u>2, 2 + 1.0</u> when received (C°) = <u>1.2</u> | | | | | | | |
| Project Manager <u>K Summers</u> | | PO/SO #: | | 1 2 3 4 5 Page <u>1</u> of <u>1</u> | | | | | | | | | |
| Sampler's Name <u>Rance Deechilly / Chad D'Aponte</u> | | Sampler's Signature  | | | | | | | | | | | |
| Proj. No. | | Project Name <u>Lateral 2C</u> | | No/Type of Containers | | | | | | | | | |
| Matrix | Date | Time | C Coed | G Grab | Identifying Marks of Sample(s) | Start Depth | End Depth | VOA | AG 1 L | 250 ml | Glass Jar | P/O | Lab Sample ID (Lab Use Only) |
| S | 3/23/16 | 1245 | | | S-9 | | | | | | | | 1603894-001 |
| ↓ | | 1250 | | | S-10 | | | | | | | | -002 |
| ↓ | | 1300 | | | S-11 | | | | | | | | -003 |
| ↓ | | 1305 | | | S-12 | | | | | | | | -004 |
| NFS | | | | | | | | | | | | | |
| Turn around time <input type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input checked="" type="checkbox"/> 100% Rush <u>Sample 24 TAT 03/24/16</u> | | | | | | | | | | | | | |
| Relinquished by (Signature) | | Date: | Time: | Received by: (Signature) | | Date: | Time: | NOTES: <u>Rush</u> Bill to Tom Long N/AFE N24910 | | | | | |
|  | | 3/23/16 | 1630 |  | | 3/23/16 | 1630 | | | | | | |
|  | | 3/23/16 | 1843 |  | | 03/24/16 | 0730 | | | | | | |
| Relinquished by (Signature) | | Date: | Time: | Received by: (Signature) | | Date: | Time: | | | | | | |
| Relinquished by (Signature) | | Date: | Time: | Received by: (Signature) | | Date: | Time: | | | | | | |

Matrix Container WW - Wastewater VOA - 40 ml vial W - Water A/G - Amber / Or Glass 1 Liter S - Soil SD - Solid L - Liquid A - Air Bag 250 ml - Glass wide mouth C - Charcoal tube P/O - Plastic or other SL - sludge O - Oil

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

OIL CONS. DIV DIST. 3

MAY 02 2016

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office
in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | |
|--|---|
| Name of Company: Enterprise Field Services LLC | Contact: Thomas Long |
| Address: 614 Reilly Ave, Farmington, NM 87401 | Telephone No. 505-599-2286 |
| Facility Name: Trunk 2B | Facility Type: Natural Gas Gathering Pipeline |

| | | |
|-----------------------------------|-----------------------------------|----------------|
| Surface Owner: Navajo Nation/NAPI | Mineral Owner: Navajo Nation/NAPI | Serial Number: |
|-----------------------------------|-----------------------------------|----------------|

LOCATION OF RELEASE

| | | | | | | | | |
|------------------|--------------|-----------------|--------------|----------------------|---------------------|----------------------|-------------------|--------------------|
| Unit Letter D | Section 7 | Township 27N | Range 11W | Feet from the 735 | North/South Line | Feet from the 682 | East/West Line | County San Juan |
|------------------|--------------|-----------------|--------------|----------------------|---------------------|----------------------|-------------------|--------------------|

Latitude 36.594826 Longitude -108.051979

NATURE OF RELEASE

| | | |
|--|---|---|
| Type of Release: Natural Gas and Condensate | Volume of Release: Unknown | Volume Recovered: None |
| Source of Release: Suspected Internal Corrosion of the Pipeline | Date and Hour of Occurrence: 4/22/2016 @ 4:30 p.m. | Date and Hour of Discovery: 4/22/2016 @ 5:30 p.m. |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Cory Smith - NMOCD, Steve Austin - NNEPA and Mike Freeman - NAPI | |
| By Whom? Thomas Long | Date and Time 4/22/2016 @ 6:29 p.m. | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action: On April 22, 2016, Enterprise technician discovered a gas leak from on the Trunk 2B pipeline. The pipeline was isolated, blown down, locked out and tagged out. An area of soil staining of approximately 30 feet long by 3 feet wide was observed on the ground surface. Remediation and repairs are in currently in progress.

Describe Area Affected and Cleanup Action: Enterprise will remove the contaminant mass by mechanical excavation. A third party corrective action report will be included with the "Final." C-141.

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: <i>Jon Fields</i> | OIL CONSERVATION DIVISION | |
| Printed Name: Jon E. Fields | Approved by Environmental Specialist: <i>[Signature]</i> | |
| Title: Director, Field Environmental | Approval Date: <i>6/3/2016</i> | Expiration Date: |
| E-mail Address: jefields@eprod.com | Conditions of Approval: <i>Sample Area TPH, BTEX, Chlorides</i> | Attached <input type="checkbox"/> |
| Date: <i>4-28-2016</i> Phone: (713)381-6684 | | |

* Attach Additional Sheets If Necessary

*Remediation plan must be submitted to NMOCD IV by July 31, 2016
NVP 161 8250440*

①

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

OIL CONS. DIV DIST. 3

JUN 30 2016 Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office
in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | |
|--|---|
| Name of Company: Enterprise Field Services LLC | Contact: Thomas Long |
| Address: 614 Reilly Ave, Farmington, NM 87401 | Telephone No. 505-599-2286 |
| Facility Name: Trunk MD 16 Inch Pipeline | Facility Type: Natural Gas Gathering Pipeline |

| | | |
|------------------------------------|------------------------------------|---------|
| Surface Owner: State of New Mexico | Mineral Owner: State of New Mexico | API No. |
|------------------------------------|------------------------------------|---------|

LOCATION OF RELEASE

| | | | | | | | | |
|------------------|---------------|-----------------|--------------|-----------------------|---------------------|-----------------------|-------------------|--------------------|
| Unit Letter J | Section 36 | Township 30N | Range 11W | Feet from the 2203 | North/South Line | Feet from the 1608 | East/West Line | County San Juan |
|------------------|---------------|-----------------|--------------|-----------------------|---------------------|-----------------------|-------------------|--------------------|

Latitude 36.767271 Longitude -107.939201

NATURE OF RELEASE

| | | |
|--|--|--|
| Type of Release: Natural Gas and Natural Gas Liquids | Volume of Release 22,000 MCF Gas; 10-15 BBLs Natural Gas Liquids | Volume Recovered: None |
| Source of Release: Pipeline Rupture | Date and Hour of Occurrence: 6/8/16 @ 1:20 a.m. | Date and Hour of Discovery: 6/8/16 1:40 a.m. |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Notification to Brandon Powell - NMOCD; | |
| By Whom? Runell Seale | Date and Time 6/8/2016 @ 10:48 a.m. | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume | |

If a Watercourse was Impacted, Describe Fully.* Fluids were sprayed into a small ephemeral wash to the south.

Describe Cause of Problem and Remedial Action: On June 8, 2016, Enterprise responded to investigate a pressure loss into Val-Verde plant. The area supervisor dispatched technicians to check the Trunk MD pipeline corridor. A gas release was the found approximately 2.6 miles north of Val-Verde plant. Enterprise technician isolated, depressurized, locked out and tagged out the pipeline. Gas loss was calculated to be 22,000 mcf.

Describe Area Affected and Cleanup Action: A rupture hole of approximately 80 feet long by 20 feet wide approximately 8 feet deep was created. Fluids from the pipeline rupture were sprayed approximately 350 feet to the south. Repair and remediation activities were completed on June 13, 2016. A third party environmental contractor collected soil samples for laboratory analysis prior to backfill of the excavation. All sample results were below the site specific remediation standard. A third party corrective action report will be submitted with the "Final" C-141.

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: <i>Jon E. Fields</i> | OIL CONSERVATION DIVISION | |
| Printed Name: Jon E. Fields | Approved by Environmental Specialist: <i>[Signature]</i> | |
| Title: Director, Environmental | Approval Date: <u>6/30/2016</u> | Expiration Date: |
| E-mail Address: jefields@eprod.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: <u>6-24-2016</u> Phone: (713)381-6684 | <u>NUR1612955140</u> <u>Sample TPH, BTEX Chlorides</u> <u>8260 H₂O</u> | |

* Attach Additional Sheets If Necessary

①

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

OIL CONS. DIV DIST. 3

JUL 05 2016

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office
in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | |
|--|-------------------------------------|
| Name of Company: Enterprise Field Services LLC | Contact: Thomas Long |
| Address: 614 Reilly Ave, Farmington, NM 87401 | Telephone No. 505-599-2286 |
| Facility Name: Trunk MD 16 Inch | Facility Type: Natural Gas Pipeline |

| | | |
|--------------------|--------------------|----------------|
| Surface Owner: BLM | Mineral Owner: BLM | Serial Number: |
|--------------------|--------------------|----------------|

LOCATION OF RELEASE

| | | | | | | | | |
|-------------------------|---------------------|------------------------|---------------------|-----------------------|--------------------------------|-----------------------|------------------------------|---------------------------|
| Unit Letter M | Section 1 | Township 29N | Range 11W | Feet from the 1185 | North South Line | Feet from the 1361 | East West Line | County San Juan |
|-------------------------|---------------------|------------------------|---------------------|-----------------------|--------------------------------|-----------------------|------------------------------|---------------------------|

Latitude 36.750534 Longitude -107.947310

NATURE OF RELEASE

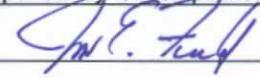
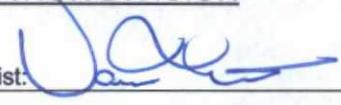
| | | |
|---|---|---|
| Type of Release: Hydro Static Test Water | Volume of Release Estimated 1000 barrels of potable water | Volume Recovered: None |
| Source of Release: Ruptured Pipeline | Date and Hour of Occurrence: 6/16/2016 @ 6:30 p.m. | Date and Hour of Discovery: 6/16/2016 @ 6:30 p.m. |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Courtesy Notification – Vanessa Fields, NMOCD; Katherina Diemer | |
| By Whom? Thomas Long | Date and Time June 16, 2016 @ 8:55 p.m. | |
| Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If YES, Volume | |

If a Watercourse was Impacted, Describe Fully.* Approximately 1,000 barrels of potable was released to the ground surface and flowed south entering an ephemeral wash and continued a flowing south approximately 0.5 miles.

Describe Cause of Problem and Remedial Action: At approximately 6:30 p.m. On June 16, 2016, a rupture occurred during hydro-static testing of the Trunk MD 16 Inch pipeline. Approximately 1,000 barrels of potable was released to the ground surface and flowed south entering an ephemeral wash and continued a flowing south approximately 0.5 miles.

Describe Area Affected and Cleanup Action: Enterprise collected soil samples from the source and flow path of the release on June 17, 2016 with NMOCD witnessing sample collection. Initial analytical results indicate no environmental impact. A third party corrective action report will be included with the "Final." C-141.

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:  | OIL CONSERVATION DIVISION | |
| Printed Name: Jon E. Fields | Approved by Environmental Specialist:  | |
| Title: Director, Field Environmental | Approval Date: <u>7/6/2016</u> | Expiration Date: |
| E-mail Address: jefields@eprod.com | Conditions of Approval: <u>NVF 166167 32257</u> <u>Sample Area For</u> <u>TPH, BTEX, Chlorides</u> <u>H2O sample include 8d60</u> <u>w/ Cations Anions</u> | Attached <input type="checkbox"/> |
| Date: <u>6/30/2016</u> | Phone: (713)381-6684 | |

* Attach Additional Sheets If Necessary

①

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 August 8, 2011
JUL 05 2016
Submit 1 Copy to appropriate District Office
in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | |
|--|-------------------------------------|
| Name of Company: Enterprise Field Services LLC | Contact: Thomas Long |
| Address: 614 Reilly Ave, Farmington, NM 87401 | Telephone No. 505-599-2286 |
| Facility Name: Trunk MD 16 Inch | Facility Type: Natural Gas Pipeline |

| | | |
|--------------------|--------------------|----------------|
| Surface Owner: BLM | Mineral Owner: BLM | Serial Number: |
|--------------------|--------------------|----------------|

LOCATION OF RELEASE

| | | | | | | | | |
|-------------------------|---------------------|------------------------|---------------------|----------------------|---------------------|----------------------|-------------------|---------------------------|
| Unit Letter M | Section 1 | Township 29N | Range 11W | Feet from the 126 | North/South Line | Feet from the 684 | East/West Line | County San Juan |
|-------------------------|---------------------|------------------------|---------------------|----------------------|---------------------|----------------------|-------------------|---------------------------|

Latitude 36.747770 Longitude -107.949616

NATURE OF RELEASE

| | | |
|---|---|--|
| Type of Release: Hydro Static Test Water | Volume of Release Estimated 2,561 barrels of potable water | Volume Recovered: None |
| Source of Release: Ruptured Pipeline | Date and Hour of Occurrence: 6/19/2016 @ 11:15 a.m. | Date and Hour of Discovery: 6/19/2016 @ 11:15 a.m. |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Courtesy Notification – Vanessa Fields, NMOCD; Katherina Diemer | |
| By Whom? Thomas Long | Date and Time June 19, 2016 @ 1:35 p.m. | |
| Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If YES, Volume | |

If a Watercourse was Impacted, Describe Fully.* Approximately 2,561 barrels of potable was released to the ground surface and flowed south entering an ephemeral wash and continued a flowing south approximately 0.20 miles.

Describe Cause of Problem and Remedial Action: At approximately 6:30 p.m. On June 17, 2016, a rupture occurred during hydro-static testing of the Trunk MD 16 Inch pipeline. Approximately 2,561 barrels of potable was released to the ground surface and flowed south entering an ephemeral wash and continued a flowing south approximately 0.20 miles.

Describe Area Affected and Cleanup Action: Enterprise collected soil samples from the source and flow path of the release on June 17, 2016 with NMOCD witnessing sample collection. Initial analytical results indicate no environmental impact. A third party corrective action report will be included with the "Final." C-141.

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: | OIL CONSERVATION DIVISION | |
| Printed Name: Jon E. Fields | Approved by Environmental Specialist: | |
| Title: Director, Field Environmental | Approval Date: <u>7/6/16</u> | Expiration Date: |
| E-mail Address: jefields@eprod.com | Conditions of Approval: <u>NUE 1617448436</u> | Attached <input type="checkbox"/> |
| Date: <u>6/30/2016</u> Phone: (713)381-6684 | <u>Sample Area For</u> | |

* Attach Additional Sheets If Necessary

TPH, BTEX, Chlorides
H₂O sample include 8260
Cations & Anions

①

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

MAY 12 2016

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office
in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | |
|--|--|
| Name of Company: Enterprise Field Services LLC | Contact: Thomas Long |
| Address: 614 Reilly Ave, Farmington, NM 87401 | Telephone No. 505-599-2286 |
| Facility Name: Christman GC#1 | Facility Type: Natural Gas Gathering Pipeline |

| | | |
|-------------------------------|-------------------------------|---------------------------|
| Surface Owner: Private | Mineral Owner: Private | Serial Number: N/A |
|-------------------------------|-------------------------------|---------------------------|

LOCATION OF RELEASE

| | | | | | | | | |
|-------------------------|----------------------|------------------------|---------------------|-----------------------|--------------------------------|-----------------------|------------------------------|---------------------------|
| Unit Letter L | Section 11 | Township 30N | Range 12W | Feet from the 1433 | North South Line | Feet from the 1236 | East West Line | County San Juan |
|-------------------------|----------------------|------------------------|---------------------|-----------------------|--------------------------------|-----------------------|------------------------------|---------------------------|

Latitude 36.823472 Longitude -108.072337

NATURE OF RELEASE

| | | |
|--|---|--|
| Type of Release: Natural Gas and Condensate | Volume of Release: Unknown | Volume Recovered: None |
| Source of Release: Suspected Internal Corrosion of the Pipeline | Date and Hour of Occurrence: 4/19/2016 @ 10:00 a.m. | Date and Hour of Discovery: 4/19/2016 @ 11:45 a.m. |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom? Courtesy Notification – Cory Smith, NMOCD | |
| By Whom? Thomas Long | Date and Time April 28, 2016 @ 8:01 a.m. | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action: On April 19, 2016, Enterprise technician discovered a gas leak from on the Christman GC#1 pipeline. The pipeline was isolated, blown down, locked out and tagged out. Repairs are completed and remediation is currently in progress.

Describe Area Affected and Cleanup Action: Enterprise will remove the contaminant mass by mechanical excavation. A third party corrective action report will be included with the "Final." C-141.

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: | OIL CONSERVATION DIVISION | |
| Printed Name: Jon E. Fields | Approved by Environmental Specialist: | |
| Title: Director, Field Environmental | Approval Date: 6/1/2016 | Expiration Date: |
| E-mail Address: jefields@eprod.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 5/9/16 | Phone: (713)381-6684 | |

*Sample Area For
BTEX TPH
NCS16123.5 2920*

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

JUN 20 2016

Form C-141
Revised August 8, 2011Submit 1 Copy to appropriate District Office
in accordance with 19.15.29 NMAC.

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

Release Notification and Corrective Action

OPERATOR

 Initial Report Final Report

| | |
|--|--|
| Name of Company: Enterprise Field Services LLC | Contact: Thomas Long |
| Address: 614 Reilly Ave, Farmington, NM 87401 | Telephone No. 505-599-2286 |
| Facility Name: Christman GC#1 | Facility Type: Natural Gas Gathering Pipeline |
| Surface Owner: Private | Mineral Owner: Private |
| Serial Number: N/A | |

LOCATION OF RELEASE

| | | | | | | | | |
|-------------------------|----------------------|------------------------|---------------------|-----------------------|--------------------------------|-----------------------|------------------------------|---------------------------|
| Unit Letter L | Section 11 | Township 30N | Range 12W | Feet from the 1433 | North South Line | Feet from the 1236 | East West Line | County San Juan |
|-------------------------|----------------------|------------------------|---------------------|-----------------------|--------------------------------|-----------------------|------------------------------|---------------------------|

Latitude 36.823472 Longitude -108.072337

NATURE OF RELEASE

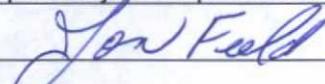
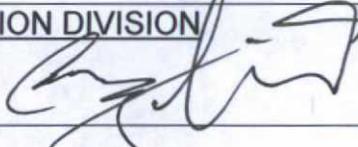
| | | |
|---|---|--|
| Type of Release: Natural Gas and Condensate | Volume of Release 16.40 MCF Gas; 10-15 BBLs condensate | Volume Recovered: None |
| Source of Release: Internal Corrosion of the Pipeline | Date and Hour of Occurrence: 4/19/2016 @ 10:00 a.m. | Date and Hour of Discovery: 4/19/2016 @ 11:45 a.m. |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom? Courtesy Notification – Cory Smith, NMOCD | |
| By Whom? Thomas Long | Date and Time April 28, 2016 @ 8:01 a.m. | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action: On April 19, 2016, Enterprise technician discovered a gas leak from on the Christman GC#1 pipeline. The pipeline was isolated, blown down, locked out and tagged out. Repairs and remediation were completed May 5, 2016.

Describe Area Affected and Cleanup Action: The contaminant mass was removed by mechanical excavation. The final excavation measured approximately 33 feet long by 15 feet wide ranging from 14.5 to 17 feet deep. Approximately 492 cubic yards of hydrocarbon impacted soil were excavated and transported to a New Mexico Oil Conservation approved land farm facility. A third party corrective action report is included with this "Final" C-141.

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:  | OIL CONSERVATION DIVISION | |
| Printed Name: Jon E. Fields | Approved by Environmental Specialist:  | |
| Title: Director, Field Environmental | Approval Date: 7/21/16 | Expiration Date: |
| E-mail Address: jefields@eprod.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 6-17-2016 | Phone: (713)381-6684 | |

* Attach Additional Sheets If Necessary

#NES 1612352920

38



OIL CONS. DIV DIST. 3

JUN 20 2016

CORRECTIVE ACTION REPORT

Property:

**Christman GC #1 Pipeline Release
SW 1/4, S11 T30N R12W
San Juan County, New Mexico**

May 16, 2016

Apex Project No. 725040112151

Prepared for:

**Enterprise Field Services LLC
614 Reilly Avenue
Farmington, NM 87401
Attn: Mr. Thomas Long**

Prepared by:

A handwritten signature in blue ink, appearing to read 'Ranee Deechilly', written over a horizontal line.

Ranee Deechilly
Project Scientist

A handwritten signature in blue ink, appearing to read 'Kyle Summers', written over a horizontal line.

Kyle Summers, CPG
Branch Manager/Senior Geologist

TABLE OF CONTENTS

| | | |
|------------|--|----------|
| 1.0 | INTRODUCTION | 1 |
| 1.1 | Site Description & Background..... | 1 |
| 1.2 | Project Objective..... | 1 |
| 2.0 | SITE RANKING | 1 |
| 3.0 | RESPONSE ACTIONS | 2 |
| 3.1 | Soil Excavation Activities..... | 2 |
| 3.2 | Soil Sampling Program..... | 3 |
| 3.3 | Laboratory Analytical Methods..... | 3 |
| 4.0 | DATA EVALUATION | 3 |
| 4.1 | Confirmation Soil Samples..... | 4 |
| 5.0 | FINDINGS AND RECOMMENDATIONS | 4 |
| 6.0 | STANDARD OF CARE, LIMITATIONS, AND RELIANCE | 5 |

LIST OF APPENDICES

| | |
|--------------------|--|
| Appendix A: | Figure 1 – Topographic Map Figure 2 – Site Vicinity Map Figure 3 – Site Map with Soil Analytical Results |
| Appendix B: | Executed C-138 Solid Waste Acceptance Form |
| Appendix C: | Photographic Documentation |
| Appendix D: | Table |
| Appendix E: | Laboratory Analytical Reports & Chain of Custody Documentation |

CORRECTIVE ACTION REPORT

Christman GC #1 Pipeline Release
SW 1/4, S11 T30N R12W
San Juan County, New Mexico

Apex Project No. 725040112151

1.0 INTRODUCTION

1.1 Site Description & Background

The Christman GC#1 pipeline release Site is located within the Enterprise Products Operating, LLC (Enterprise) pipeline right-of-way (ROW) in the southwest (SW) ¼ of Section 11, Township 30 North, Range 12 West in San Juan County, New Mexico (36.82347N, 108.07234W), referred to hereinafter as the "Site" or "subject Site". The Site is located on land managed by the Bureau of Land Management (BLM). The Site is surrounded by native vegetation rangeland periodically interrupted by oil and gas gathering facilities, including the Enterprise natural gas well tie which traverses the area from north to south.

A surface release on the Christman GC# 1 pipeline was discovered on April 19, 2016. The surface expression of the release was characterized by distressed vegetation in the immediate vicinity of the release. Beginning on April 26, 2016, Enterprise initiated excavation activities to facilitate the repair of the pipeline and to remediate potential hydrocarbon impact. The pipeline release, which resulted from corrosion of the pipe, was repaired by replacing a three foot section of pipe.

A topographic map depicting the location of the Site is included as Figure 1, and a Site Vicinity Map is included as Figure 2 in Appendix A.

1.2 Project Objective

The primary objective of the corrective action was to reduce the concentration of constituents of concern (COCs) in the on-Site soils to below the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) *Remediation Action Levels (RALs)* using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

2.0 SITE RANKING

In accordance with the New Mexico ENMRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases*, Apex utilized the general site characteristics obtained during the completion of corrective action activities to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:



| Ranking Criteria | | | Ranking Score |
|--|-------------------|----|---------------|
| Depth to Groundwater | <50 feet | 20 | 20 |
| | 50 to 99 feet | 10 | |
| | >100 feet | 0 | |
| Wellhead Protection Area • <1,000 feet from a water source, or; <200 feet from private domestic water source. | Yes | 20 | 0 |
| | No | 0 | |
| Distance to Surface Water Body | <200 feet | 20 | 10 |
| | 200 to 1,000 feet | 10 | |
| | >1,000 feet | 0 | |
| Total Ranking Score | | | 30 |

Based on Apex's evaluation of the scoring criteria, the Site would have a Total Ranking Score of 30. This ranking is based on the following:

- One water well, identified on the Office of the State Engineer (OSE) website, is located less than a mile southwest of the Site and has a depth to water of 38 feet below grade surface (bgs). Based on the proximity to the Site, the depth to groundwater at the Site is anticipated to be less than 50 feet bgs, resulting in a ranking of "20" for depth to groundwater.
- No water source wells (municipal/community wells) were identified within 1,000 feet of the Site. No private domestic water sources were identified within 200 feet of the Site. These proximities result in a wellhead protection area ranking of "0".
- The release point is located approximately 775 feet west of an ephemeral wash, which is identified as a "blue line" on the United States Geological Society topographic map. This information supports a distance to surface water ranking of "10".

3.0 RESPONSE ACTIONS

3.1 Soil Excavation Activities

A surface release on the Christman GC# 1 pipeline was discovered on April 19, 2016. The surface expression of the release was characterized by distressed vegetation in the immediate vicinity of the release. Beginning on April 26, 2016, Enterprise initiated excavation activities to facilitate the repair of the pipeline and to remediate potential hydrocarbon impact. The pipeline release, which resulted from corrosion of the pipe, was repaired by replacing a three foot section of pipe. During the corrective action activities, West States Energy Contractors provided heavy equipment and labor support, and Rane Deechilly, an Apex environmental professional, provided environmental support.

On April 26, 2016, two (2) soil samples (S-1 and S-2) were collected from the base of the excavation to evaluate vertical migration of the release. Based on laboratory analytical results, soils represented by confirmation soil sample S-1 (east base) still exhibited elevated COC concentrations. On May 5, 2016, the excavation was over-excavated to remove remaining affected soils. Confirmation soil samples S-3 through C-7 were collected from the base and sidewalls of the excavation for laboratory analysis.

The final excavation measured approximately 33 feet long by 15 feet wide at the maximum extents, with total depths ranging from approximately fourteen and a half (14.5) feet bgs to seventeen (17) feet bgs.

The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated and poorly-sorted gravel, cobbles, and sand.

A total of approximately 492 cubic yards of hydrocarbon affected soils were transported to the Industrial Ecosystems, Inc. (IEI) landfarm near Aztec, NM for disposal/remediation. The executed C-138 form is provided in Appendix B. The excavation was backfilled with clean imported fill and contoured to surrounding grade.

Figure 3 is a site map that indicates the approximate location of the excavated area in relation to pertinent land features (Appendix A). Photographic documentation of the field activities is included in Appendix C.

3.2 Soil Sampling Program

Apex screened head-space samples of the impacted soils with a photoionization detector (PID) fitted with a 10.6 eV lamp to estimate excavation limits.

Apex's soil sampling program included the collection of seven (7) confirmation samples (S-1 through S-7) from the sidewalls and base of the excavation for laboratory analysis. Soils associated with confirmation sample S-1 were removed by over-excavation prior to resampling (S-5).

Figure 3 depicts the approximate location of the excavated area and shows the final confirmation sample locations in relation to the final excavation dimensions (Appendix A).

The confirmation soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied label, and placed on ice in a cooler, which was secured with a custody seal. The samples and completed chain-of-custody form were relinquished to Hall Environmental Laboratory of Albuquerque, New Mexico for analysis.

3.3 Laboratory Analytical Methods

The confirmation soil samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA SW-846 Method #8021, and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (GRO) using EPA SW-846 Method #8015.

Laboratory results are summarized in Table 1, included in Appendix D. The executed chain-of-custody form and laboratory data sheets are provided in Appendix E.

4.0 DATA EVALUATION

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to condensate releases, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules, specifically NMAC 19.15.29 *Release Notification*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

4.1 Confirmation Soil Samples

Apex compared the BTEX and TPH concentrations or practicable quantitation limits (PQLs) associated with the final confirmation samples (S-2 through S-7) collected from the excavated area to the OCD RALs for sites having a total ranking score of "30". Soil sample S-1 was removed by over-excavation and transported to IEI for disposal/treatment, and is not included in the following discussion.

- The laboratory analyses of the confirmation samples from soils remaining in place exhibited benzene concentrations below the PQLs, which are below the OCD RAL of 10 mg/kg.
- The laboratory analyses of the confirmation samples from soils remaining in place indicate total BTEX concentrations ranging from below the PQLs to 0.48 mg/kg (S-2), which are below the OCD RAL of 50 mg/kg.
- The laboratory analyses of confirmation samples collected from soils remaining in place indicate combined TPH GRO/DRO concentrations ranging from below PQLs to 18 mg/kg (S-2), which are below the OCD RAL of 100 mg/kg for a Site ranking of "30".

Confirmation sample laboratory analytical results are provided in Table 1 in Appendix D.

5.0 FINDINGS AND RECOMMENDATIONS

The Christman GC #1 pipeline release Site is located within the Enterprise pipeline ROW in the SW ¼, Section 11, Township 30 North, Range 12 West in San Juan County, New Mexico. The Site is located on land managed by BLM. The Site is surrounded by native vegetation rangeland periodically interrupted by oil and gas gathering facilities, including the Enterprise natural gas well tie which traverses the area from north to south.

A surface release on the Christman GC# 1 pipeline was discovered on April 19, 2016. The surface expression of the release was characterized by distressed vegetation in the immediate vicinity of the release. Beginning on April 26, 2016, Enterprise initiated excavation activities to facilitate the repair of the pipeline and to remediate potential hydrocarbon impact. The pipeline release, which resulted from corrosion of the pipe, was repaired by replacing a three foot section of pipe.

- The primary objective of the corrective actions was to reduce the concentration of COCs in the on-Site soils to below the New Mexico EMNRD OCD RALs using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.
- The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated and poorly sorted gravel, cobbles, and sand.
- The final excavation measure approximately 33 feet long by 15 feet wide at the maximum extents, with total depths ranging from 14.5 to 17 feet bgs.
- Prior to backfilling, seven (7) confirmation soil samples were collected from the resulting final excavation for laboratory analyses. Soil sample S-1 was removed by excavation. Based on analytical results, soils remaining in place do not exhibit BTEX or TPH GRO/DRO concentrations above the OCD RALs for a site ranking of "30".

- A total of approximately 492 cubic yards of hydrocarbon affected soils were transported to the IEI landfarm near Aztec, NM for disposal/remediation. The excavation was backfilled with clean imported fill and contoured to the approximate surrounding grade.

Based on the laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

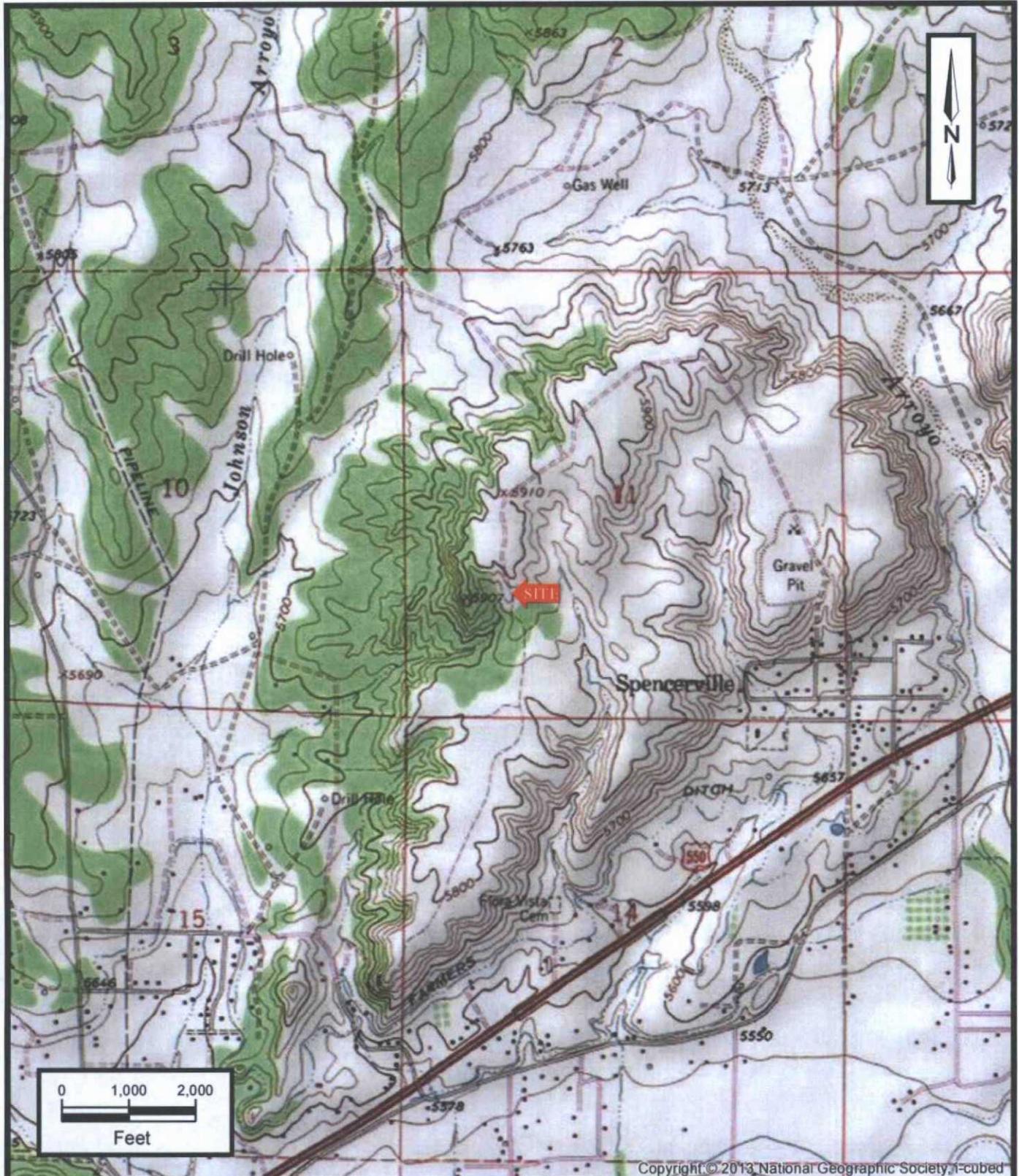
Apex's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Apex makes no warranties, expressed or implied, as to the services performed or described herein. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Apex cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Apex's findings and recommendations are based solely upon data available to Apex at the time of these services.

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.

APPENDIX A

Figures



Christman GC #1 Pipeline Release
 SW1/4 Sec11 T30N R12W
 San Juan County, New Mexico
 36.82347N, 108.07234W

Project No. 725040112151



Apex TITAN, Inc.
 606 South Rio Grande, Suite A
 Aztec, NM 87410
 Phone: (505) 334-5200
 www.apexcos.com
 A Subsidiary of Apex Companies, LLC

FIGURE 1
Topographic Map
 Flora Vista, NM Quadrangle
 1963



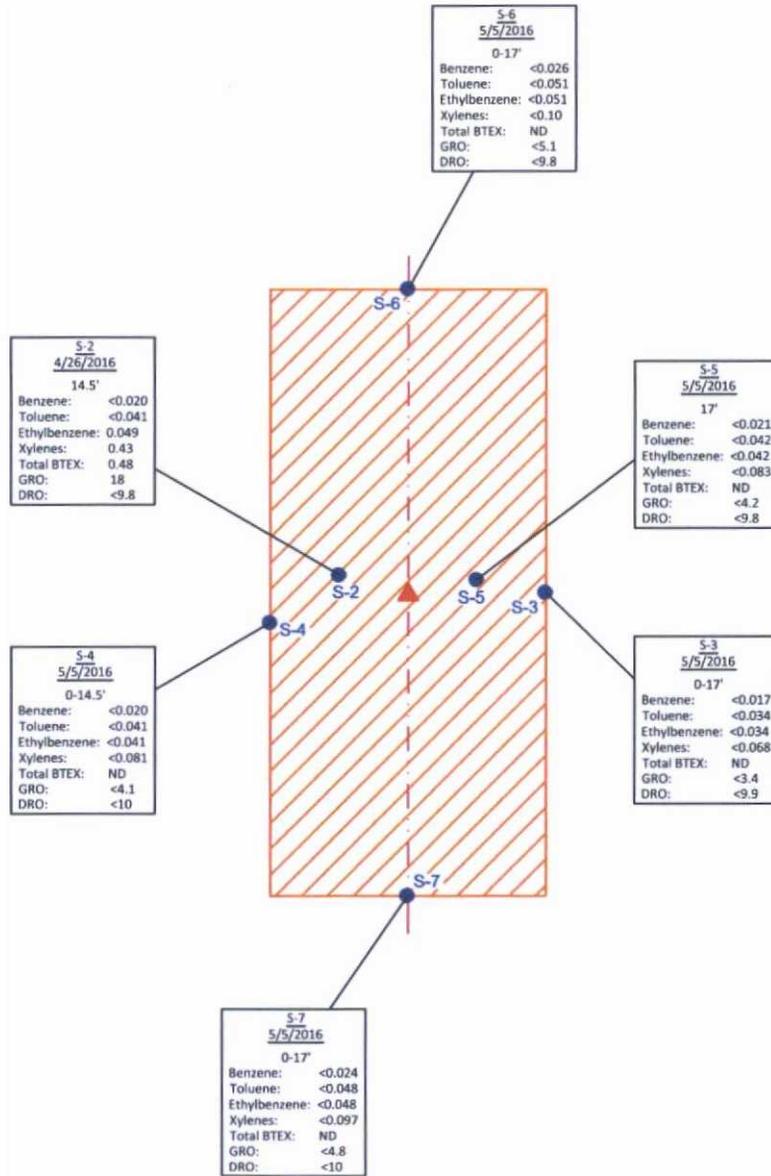
Christman GC #1 Pipeline Release
 SW1/4 Sec11 T30N R12W
 San Juan County, New Mexico
 36.82347N, 108.07234W

Project No. 725040112151



Apex TITAN, Inc.
 606 South Rio Grande, Suite A
 Aztec, NM 87410
 Phone: (505) 334-5200
 www.apexcoos.com
 A Subsidiary of Apex Companies, LLC

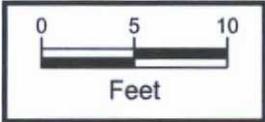
FIGURE 2
Site Vicinity Map



LEGEND:

- - - - - APPROXIMATE PIPELINE LOCATION
- SAMPLE LOCATION
- ▲ RELEASE POINT
- ▨ EXTENT OF EXCAVATION

NOTE: ALL VALUES ARE REPRESENTED IN mg/kg;
ND - NOT DETECTED



Christman GC #1 Pipeline Release
SW1/4 Sec11 T30N R12W
San Juan County, New Mexico
36.82347N, 108.07234W

Project No. 725040112151

Apex TITAN, Inc.
806 S. Rio Grande, Suite A
Aztec, New Mexico 87410
Phone: (505) 334-5200
www.apexcos.com
A Subsidiary of Apex Companies, LLC

FIGURE 3
Site Map with
Soil Analytical Results

APPENDIX B

Executed C-138 Solid Waste Acceptance Forms

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401

2. **Originating Site:**
Christman GC#1 Pipeline

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit Letter L Section 11 Township 30 North Range 12 West; 36.823472, -108.072337

4. **Source and Description of Waste:** Hydrocarbon impacted soil/sludge from excavation activities associated with a natural gas pipeline release. *5/6/11 - 228 cu yd*

5. Estimated Volume 50 yd^3 bbls Known Volume (to be entered by the operator at the end of the haul) 264 yd^3 bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Thomas Long *Thomas Long* representative or authorized agent for Enterprise Field Services, LLC do hereby
PRINT & SIGN NAME COMPANY NAME

certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* Monthly Weekly Per Load

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

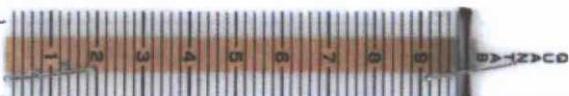
MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long *Thomas Long* 4-26-16, representative for Enterprise Field Services, LLC authorize IEI, Inc. to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, K. Selph *K. Selph*, representative for IEI, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

6. **Transporter: West States Energy Contractors**



OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: JFJ Landfarm/Industrial Ecosystems, Inc. * Permit #: NM 01-0010B
Address of Facility: #49 CR 2150 Aztec, New Mexico
Method of Treatment and/or Disposal:
 Evaporation Injection Treating Plant Landfarm Landfill Other

*PH=6
CL=132*

Waste Acceptance Status: **APPROVED** **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Tamera Beery TITLE: Land Farm Administrator DATE: 5-5-16
SIGNATURE: *Tamera Beery* TELEPHONE NO.: 505-632-1782
Surface Waste Management Facility Authorized Agent

4/27/16

APPENDIX C

Photographic Documentation

Photograph 1

View of the release area, facing northwest.



Photograph 2

View of the repaired pipe and the in-process corrective action activities, facing northwest.



Photograph 3

View of the in-process corrective action activities, facing southeast.



Photograph 4

View of the in-process corrective action activities, facing southeast.



Photograph 5

View of the final excavation, facing southwest.



Photograph 6

View of the final excavation, facing southeast.



APPENDIX D

Table



TABLE 1
Christman GC #1 Pipeline Release
SOIL ANALYTICAL SUMMARY

| Sample I.D. | Date | Sample Depth (feet) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Xylenes (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) |
|--|---------|---------------------|-----------------|-----------------|----------------------|-----------------|--------------------|-----------------|-----------------|
| New Mexico Energy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level | | | 10 | NE | NE | NE | 50 | 100 | |
| Confirmation Samples Removed by Excavation | | | | | | | | | |
| S-1 | 4.26.16 | 14.5 | <0.040 | 2.4 | 3.3 | 35 | 41 | 290 | 56 |
| Excavation Confirmation Samples | | | | | | | | | |
| S-2 | 4.26.16 | 14.5 | <0.020 | <0.041 | 0.049 | 0.43 | 0.48 | 18 | <9.8 |
| S-3 | 5.5.16 | 0 to 17 | <0.017 | <0.034 | <0.034 | <0.068 | ND | <3.4 | <9.9 |
| S-4 | 5.5.16 | 0 to 14.5 | <0.020 | <0.041 | <0.041 | <0.081 | ND | <4.1 | <10 |
| S-5 | 5.5.16 | 17 | <0.021 | <0.042 | <0.042 | <0.083 | ND | <4.2 | <9.8 |
| S-6 | 5.5.16 | 0 to 17 | <0.026 | <0.051 | <0.051 | <0.10 | ND | <5.1 | <9.8 |
| S-7 | 5.5.16 | 0 to 17 | <0.024 | <0.048 | <0.048 | <0.097 | ND | <4.8 | <10 |

Note: Concentrations in **bold** and yellow exceed the applicable OCD Remediation Action Level

ND = Not Detected above the Laboratory Reporting Limits

NE = Not established

APPENDIX E

Laboratory Analytical Reports & Chain of Custody Documentation



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 29, 2016

Kyle Summers
APEX TITAN
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Christman GC #1

OrderNo.: 1604B44

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/27/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-1

Project: Christman GC #1

Collection Date: 4/26/2016 3:30:00 PM

Lab ID: 1604B44-001

Matrix: MEOH (SOIL)

Received Date: 4/27/2016 7:15:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|-----------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | 56 | 9.5 | | mg/Kg | 1 | 4/27/2016 12:48:47 PM | 25027 |
| Surr: DNOP | 107 | 70-130 | | %Rec | 1 | 4/27/2016 12:48:47 PM | 25027 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 290 | 79 | | mg/Kg | 20 | 4/27/2016 11:33:18 AM | 25015 |
| Surr: BFB | 148 | 80-120 | S | %Rec | 20 | 4/27/2016 11:33:18 AM | 25015 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.040 | | mg/Kg | 2 | 4/27/2016 10:22:12 AM | 25015 |
| Toluene | 2.4 | 0.079 | | mg/Kg | 2 | 4/27/2016 10:22:12 AM | 25015 |
| Ethylbenzene | 3.3 | 0.079 | | mg/Kg | 2 | 4/27/2016 10:22:12 AM | 25015 |
| Xylenes, Total | 35 | 1.6 | | mg/Kg | 20 | 4/27/2016 11:33:18 AM | 25015 |
| Surr: 4-Bromofluorobenzene | 110 | 80-120 | | %Rec | 20 | 4/27/2016 11:33:18 AM | 25015 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Qualifiers: | | |
|-------------|---|---|
| * | Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: S-2
 Project: Christman GC #1 Collection Date: 4/26/2016 3:35:00 PM
 Lab ID: 1604B44-002 Matrix: MEOH (SOIL) Received Date: 4/27/2016 7:15:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|-----------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 4/28/2016 9:58:08 AM | 25027 |
| Surr: DNOP | 109 | 70-130 | | %Rec | 1 | 4/28/2016 9:58:08 AM | 25027 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 18 | 4.1 | | mg/Kg | 1 | 4/27/2016 10:45:48 AM | 25015 |
| Surr: BFB | 193 | 80-120 | S | %Rec | 1 | 4/27/2016 10:45:48 AM | 25015 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.020 | | mg/Kg | 1 | 4/27/2016 10:45:48 AM | 25015 |
| Toluene | ND | 0.041 | | mg/Kg | 1 | 4/27/2016 10:45:48 AM | 25015 |
| Ethylbenzene | 0.049 | 0.041 | | mg/Kg | 1 | 4/27/2016 10:45:48 AM | 25015 |
| Xylenes, Total | 0.43 | 0.081 | | mg/Kg | 1 | 4/27/2016 10:45:48 AM | 25015 |
| Surr: 4-Bromofluorobenzene | 113 | 80-120 | | %Rec | 1 | 4/27/2016 10:45:48 AM | 25015 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Qualifiers: | | |
|-------------|---|---|
| * | Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604B44

29-Apr-16

Client: APEX TITAN
Project: Christman GC #1

| | | | | | | | | | | |
|------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | LCS-25001 | SampType: | LCS | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 25001 | RunNo: | 33822 | | | | | |
| Prep Date: | 4/26/2016 | Analysis Date: | 4/27/2016 | SeqNo: | 1041860 | Units: | %Rec | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.6 | | 5.000 | | 91.6 | 70 | 130 | | | |

| | | | | | | | | | | |
|-----------------------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | LCS-25027 | SampType: | LCS | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 25027 | RunNo: | 33822 | | | | | |
| Prep Date: | 4/27/2016 | Analysis Date: | 4/27/2016 | SeqNo: | 1041861 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 45 | 10 | 50.00 | 0 | 89.5 | 65.8 | 136 | | | |
| Surr: DNOP | 4.4 | | 5.000 | | 88.0 | 70 | 130 | | | |

| | | | | | | | | | | |
|------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | MB-25001 | SampType: | MBLK | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 25001 | RunNo: | 33822 | | | | | |
| Prep Date: | 4/26/2016 | Analysis Date: | 4/27/2016 | SeqNo: | 1041862 | Units: | %Rec | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 9.6 | | 10.00 | | 95.7 | 70 | 130 | | | |

| | | | | | | | | | | |
|-----------------------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | MB-25027 | SampType: | MBLK | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 25027 | RunNo: | 33822 | | | | | |
| Prep Date: | 4/27/2016 | Analysis Date: | 4/27/2016 | SeqNo: | 1041863 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Surr: DNOP | 9.8 | | 10.00 | | 98.2 | 70 | 130 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604B44

29-Apr-16

Client: APEX TITAN
Project: Christman GC #1

| | | | | | | | | | | |
|-------------------------------|-----------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID | MB-25015 | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 25015 | RunNo: | 33826 | | | | | |
| Prep Date: | 4/26/2016 | Analysis Date: | 4/27/2016 | SeqNo: | 1042318 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 950 | | 1000 | | 95.3 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|-----------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID | LCS-25015 | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 25015 | RunNo: | 33826 | | | | | |
| Prep Date: | 4/26/2016 | Analysis Date: | 4/27/2016 | SeqNo: | 1042319 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22 | 5.0 | 25.00 | 0 | 88.0 | 80 | 120 | | | |
| Surr: BFB | 1000 | | 1000 | | 102 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604B44

29-Apr-16

Client: APEX TITAN
Project: Christman GC #1

| | | | | | | | | | | |
|----------------------------|-----------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID | MB-25015 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | PBS | Batch ID: | 25015 | RunNo: | 33826 | | | | | |
| Prep Date: | 4/26/2016 | Analysis Date: | 4/27/2016 | SeqNo: | 1042402 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 99.1 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|-----------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID | LCS-25015 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | LCSS | Batch ID: | 25015 | RunNo: | 33826 | | | | | |
| Prep Date: | 4/26/2016 | Analysis Date: | 4/27/2016 | SeqNo: | 1042403 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.025 | 1.000 | 0 | 101 | 75.3 | 123 | | | |
| Toluene | 0.94 | 0.050 | 1.000 | 0 | 94.2 | 80 | 124 | | | |
| Ethylbenzene | 0.90 | 0.050 | 1.000 | 0 | 90.4 | 82.8 | 121 | | | |
| Xylenes, Total | 2.7 | 0.10 | 3.000 | 0 | 89.8 | 83.9 | 122 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 105 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87105
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **APEX AZTEC**

Work Order Number: **1604B44**

RcptNo: **1**

Received by/date:

Logged By: **Lindsay Mangin**

oalza
 4/27/2016 7:15:00 AM

Completed By: **Lindsay Mangin**

4/27/2016 7:55:34 AM

Reviewed By:

AT

oalza

Judy Mayo

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH:
 (<2 or >12 unless noted)
 Adjusted?
 Checked by:

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

| Cooler No. | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|------------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 1.3 | Good | Yes | | | |

CHAIN OF CUSTODY RECORD

|  APEX Office Location <u>Aztec, NM</u> | | Laboratory: <u>Hall</u> Address: <u>PO Box ABQ, NM</u> Contact: <u>A. Freeman</u> Phone: _____ PO/SO #: _____ | | ANALYSIS REQUESTED <div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;"> 80% STEK 80% PH 60/100 </div> | | Lab use only Due Date: _____ Temp. of coolers when received (C°): <u>1.3</u> | | | | | |
|--|---------|---|-------------|---|-------------|--|-------------|---|--------|-----------|-----|
| | | Project Manager <u>K Summers</u> | | | | 1 2 3 4 5 Page <u>1</u> of <u>1</u> | | | | | |
| Sampler's Name <u>Rance Deedhilly</u> | | Sampler's Signature <u>Rex Daniels</u> | | Lab Sample ID (Lab Use Only) <u>1604BKH-001</u> | | | | | | | |
| Proj. No. _____ | | Project Name <u>Christman GC #1</u> | | | | No/Type of Containers _____ | | | | | |
| Matrix | Date | Time | COED | Identifying Marks of Sample(s) | Start Depth | End Depth | VOA | AVG 1L | 250 ml | Glass Jar | P/O |
| S | 4/26/16 | 1530 | | S-1 | | | | | | 1 | |
| S | 4/26/16 | 1535 | | S-2 | | | | | | 1 | |
| <div style="border: 1px solid black; padding: 10px; transform: rotate(-15deg); display: inline-block;"> NTS </div> | | | | | | | | | | | |
| Turn around time <input type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input checked="" type="checkbox"/> 100% Rush <u>Same Day</u> | | | | | | | | | | | |
| Relinquished by (Signature) | | Date: | Time: | Received by: (Signature) | | Date: | Time: | NOTES: <u>Bill to Tom Long</u> <u>NMAPE N25366</u> <u>Rush</u> | | | |
| <u>Rex Daniels</u> | | <u>4/26/16</u> | <u>1815</u> | <u>Christina Walker</u> | | <u>4/26/16</u> | <u>1815</u> | | | | |
| <u>Christina Walker</u> | | <u>4/26/16</u> | <u>1900</u> | <u>[Signature]</u> | | <u>04/26/16</u> | <u>0715</u> | | | | |
| | | | | | | | | | | | |
| Relinquished by (Signature) | | Date: | Time: | Received by: (Signature) | | Date: | Time: | | | | |
| | | | | | | | | | | | |

Matrix Container WW - Wastewater W - Water S - Soil SD - Solid L - Liquid A - Air Bag C - Charcoal tube SL - sludge O - Oil
 VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 09, 2016

Kyle Summers
APEX TITAN
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Christman GC 1

OrderNo.: 1605258

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 5/6/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-3

Project: Christman GC 1

Collection Date: 5/5/2016 10:15:00 AM

Lab ID: 1605258-001

Matrix: MEOH (SOIL)

Received Date: 5/6/2016 7:25:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 5/6/2016 11:32:41 AM | 25182 |
| Surr: DNOP | 100 | 70-130 | | %Rec | 1 | 5/6/2016 11:32:41 AM | 25182 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 3.4 | | mg/Kg | 1 | 5/6/2016 10:07:58 AM | 25166 |
| Surr: BFB | 97.5 | 80-120 | | %Rec | 1 | 5/6/2016 10:07:58 AM | 25166 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.017 | | mg/Kg | 1 | 5/6/2016 10:07:58 AM | 25166 |
| Toluene | ND | 0.034 | | mg/Kg | 1 | 5/6/2016 10:07:58 AM | 25166 |
| Ethylbenzene | ND | 0.034 | | mg/Kg | 1 | 5/6/2016 10:07:58 AM | 25166 |
| Xylenes, Total | ND | 0.068 | | mg/Kg | 1 | 5/6/2016 10:07:58 AM | 25166 |
| Surr: 4-Bromofluorobenzene | 99.1 | 80-120 | | %Rec | 1 | 5/6/2016 10:07:58 AM | 25166 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Qualifiers: | | |
|-------------|---|---|
| * | Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-4

Project: Christman GC 1

Collection Date: 5/5/2016 10:30:00 AM

Lab ID: 1605258-002

Matrix: MEOH (SOIL)

Received Date: 5/6/2016 7:25:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 5/6/2016 11:54:37 AM | 25182 |
| Surr: DNOP | 103 | 70-130 | | %Rec | 1 | 5/6/2016 11:54:37 AM | 25182 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.1 | | mg/Kg | 1 | 5/6/2016 10:31:28 AM | 25166 |
| Surr: BFB | 98.2 | 80-120 | | %Rec | 1 | 5/6/2016 10:31:28 AM | 25166 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.020 | | mg/Kg | 1 | 5/6/2016 10:31:28 AM | 25166 |
| Toluene | ND | 0.041 | | mg/Kg | 1 | 5/6/2016 10:31:28 AM | 25166 |
| Ethylbenzene | ND | 0.041 | | mg/Kg | 1 | 5/6/2016 10:31:28 AM | 25166 |
| Xylenes, Total | ND | 0.081 | | mg/Kg | 1 | 5/6/2016 10:31:28 AM | 25166 |
| Surr: 4-Bromofluorobenzene | 100 | 80-120 | | %Rec | 1 | 5/6/2016 10:31:28 AM | 25166 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-5

Project: Christman GC 1

Collection Date: 5/5/2016 10:45:00 AM

Lab ID: 1605258-003

Matrix: MEOH (SOIL)

Received Date: 5/6/2016 7:25:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|----------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 5/6/2016 12:16:30 PM | 25182 |
| Surr: DNOP | 103 | 70-130 | | %Rec | 1 | 5/6/2016 12:16:30 PM | 25182 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.2 | | mg/Kg | 1 | 5/6/2016 10:54:53 AM | 25166 |
| Surr: BFB | 109 | 80-120 | | %Rec | 1 | 5/6/2016 10:54:53 AM | 25166 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.021 | | mg/Kg | 1 | 5/6/2016 10:54:53 AM | 25166 |
| Toluene | ND | 0.042 | | mg/Kg | 1 | 5/6/2016 10:54:53 AM | 25166 |
| Ethylbenzene | ND | 0.042 | | mg/Kg | 1 | 5/6/2016 10:54:53 AM | 25166 |
| Xylenes, Total | ND | 0.083 | | mg/Kg | 1 | 5/6/2016 10:54:53 AM | 25166 |
| Surr: 4-Bromofluorobenzene | 99.8 | 80-120 | | %Rec | 1 | 5/6/2016 10:54:53 AM | 25166 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: S-6
 Project: Christman GC I Collection Date: 5/5/2016 12:10:00 PM
 Lab ID: 1605258-004 Matrix: MEOH (SOIL) Received Date: 5/6/2016 7:25:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 5/6/2016 12:38:30 PM | 25182 |
| Surr: DNOP | 102 | 70-130 | | %Rec | 1 | 5/6/2016 12:38:30 PM | 25182 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.1 | | mg/Kg | 1 | 5/6/2016 11:18:27 AM | 25166 |
| Surr: BFB | 98.1 | 80-120 | | %Rec | 1 | 5/6/2016 11:18:27 AM | 25166 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.026 | | mg/Kg | 1 | 5/6/2016 11:18:27 AM | 25166 |
| Toluene | ND | 0.051 | | mg/Kg | 1 | 5/6/2016 11:18:27 AM | 25166 |
| Ethylbenzene | ND | 0.051 | | mg/Kg | 1 | 5/6/2016 11:18:27 AM | 25166 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 5/6/2016 11:18:27 AM | 25166 |
| Surr: 4-Bromofluorobenzene | 98.6 | 80-120 | | %Rec | 1 | 5/6/2016 11:18:27 AM | 25166 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Analytical Report

Lab Order 1605258

Date Reported: 5/9/2016

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** APEX TITAN**Client Sample ID:** S-7**Project:** Christman GC 1**Collection Date:** 5/5/2016 12:20:00 PM**Lab ID:** 1605258-005**Matrix:** MEOH (SOIL)**Received Date:** 5/6/2016 7:25:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|----------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 5/6/2016 1:00:23 PM | 25182 |
| Surr: DNOP | 103 | 70-130 | | %Rec | 1 | 5/6/2016 1:00:23 PM | 25182 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 5/6/2016 11:41:59 AM | 25166 |
| Surr: BFB | 96.3 | 80-120 | | %Rec | 1 | 5/6/2016 11:41:59 AM | 25166 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 5/6/2016 11:41:59 AM | 25166 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 5/6/2016 11:41:59 AM | 25166 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 5/6/2016 11:41:59 AM | 25166 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 5/6/2016 11:41:59 AM | 25166 |
| Surr: 4-Bromofluorobenzene | 97.0 | 80-120 | | %Rec | 1 | 5/6/2016 11:41:59 AM | 25166 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Qualifiers: | | |
|-------------|---|---|
| * | Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1605258
 09-May-16

Client: APEX TITAN
Project: Christman GC 1

| Sample ID MB-25182 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|--------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 25182 | RunNo: 34035 | | | | | | | | |
| Prep Date: 5/6/2016 | Analysis Date: 5/6/2016 | SeqNo: 1048881 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Surr: DNOP | 10 | | 10.00 | | 102 | 70 | 130 | | | |

| Sample ID LCS-25182 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|--------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 25182 | RunNo: 34035 | | | | | | | | |
| Prep Date: 5/6/2016 | Analysis Date: 5/6/2016 | SeqNo: 1049232 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 47 | 10 | 50.00 | 0 | 93.4 | 65.8 | 136 | | | |
| Surr: DNOP | 4.5 | | 5.000 | | 89.4 | 70 | 130 | | | |

| Sample ID 1605258-001AMS | SampType: MS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|---------------------------------|--------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: S-3 | Batch ID: 25182 | RunNo: 34035 | | | | | | | | |
| Prep Date: 5/6/2016 | Analysis Date: 5/6/2016 | SeqNo: 1049618 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 47 | 9.7 | 48.54 | 0 | 97.4 | 33.9 | 141 | | | |
| Surr: DNOP | 4.4 | | 4.854 | | 91.2 | 70 | 130 | | | |

| Sample ID 1605258-001AMSD | SampType: MSD | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|----------------------------------|--------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: S-3 | Batch ID: 25182 | RunNo: 34035 | | | | | | | | |
| Prep Date: 5/6/2016 | Analysis Date: 5/6/2016 | SeqNo: 1049619 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 49 | 9.8 | 49.07 | 0 | 100 | 33.9 | 141 | 3.91 | 20 | |
| Surr: DNOP | 4.6 | | 4.907 | | 92.9 | 70 | 130 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1605258

09-May-16

Client: APEX TITAN

Project: Christman GC 1

| | | | | | | | | | | |
|-------------------------------|----------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID | MB-25166 | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 25166 | RunNo: | 34041 | | | | | |
| Prep Date: | 5/5/2016 | Analysis Date: | 5/6/2016 | SeqNo: | 1049337 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 970 | | 1000 | | 96.9 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|-----------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID | LCS-25166 | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 25166 | RunNo: | 34041 | | | | | |
| Prep Date: | 5/5/2016 | Analysis Date: | 5/6/2016 | SeqNo: | 1049338 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24 | 5.0 | 25.00 | 0 | 95.4 | 80 | 120 | | | |
| Surr: BFB | 1000 | | 1000 | | 105 | 80 | 120 | | | |

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1605258

09-May-16

Client: APEX TITAN

Project: Christman GC 1

| Sample ID | MB-25166 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-----------------|----------------|-----------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 25166 | RunNo: | 34041 | | | | | |
| Prep Date: | 5/5/2016 | Analysis Date: | 5/6/2016 | SeqNo: | 1049354 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 99.0 | 80 | 120 | | | |

| Sample ID | LCS-25166 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------|----------------|-----------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 25166 | RunNo: | 34041 | | | | | |
| Prep Date: | 5/5/2016 | Analysis Date: | 5/6/2016 | SeqNo: | 1049355 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.025 | 1.000 | 0 | 103 | 75.3 | 123 | | | |
| Toluene | 0.96 | 0.050 | 1.000 | 0 | 96.0 | 80 | 124 | | | |
| Ethylbenzene | 0.91 | 0.050 | 1.000 | 0 | 91.0 | 82.8 | 121 | | | |
| Xylenes, Total | 2.7 | 0.10 | 3.000 | 0 | 90.8 | 83.9 | 122 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 107 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87109
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1605258

RcptNo: 1

Received by/date: *[Signature]* 05/06/16

Logged By: Lindsay Mangin 5/6/2016 7:25:00 AM *[Signature]*

Completed By: Lindsay Mangin 5/6/2016 7:40:09 AM *[Signature]*

Reviewed By: *AT 05/06/16*

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 4.1 | Good | Yes | | | |

CHAIN OF CUSTODY RECORD



Office Location Aztec, NM

Project Manager K Summers

Sampler's Name Kyle Summers

Proj. No. _____ Project Name Christman GC#1 No/Type of Containers _____

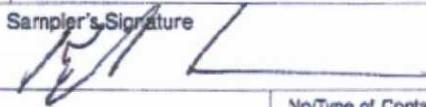
Laboratory: Hall Environmental

Address: Albuquerque, NM

Contact: A. Freeman

Phone: _____

PO/SO #: _____

Sampler's Signature 

ANALYSIS REQUESTED

8021 APEX
8015 TPH GPO I Deo

Lab use only

Due Date: _____

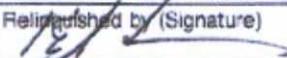
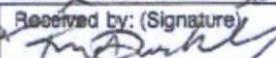
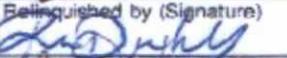
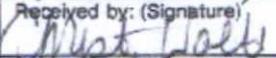
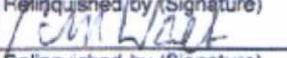
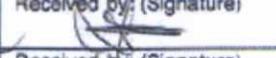
Temp. of coolers when received (C°): 41

| | | | | |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|

Page 1 of 1

| Matrix | Date | Time | Coed | Bar | Identifying Marks of Sample(s) | Start Depth | End Depth | VOA | A/G 1 L | 250 ml | Glass Jar | P/O | Lab Samples ID (Lab Use Only) | |
|--------|--------|------|------|-----|--------------------------------|-------------|-----------|-----|---------|--------|-----------|-----|-------------------------------|-------------|
| S | 5/5/16 | 1015 | | | S-3 | | | | | | | | X X | 1605258-001 |
| | | 1030 | | | S-4 | | | | | | | | X X | -002 |
| | | 1045 | | | S-5 | | | | | | | | X X | -003 |
| | | 1210 | | | S-6 | | | | | | | | X X | -004 |
| ✓ | ✓ | 1220 | | | S-7 | | | | | | | | X X | -005 |
| NFS | | | | | | | | | | | | | | |

Turn around time Normal 25% Rush 50% Rush 100% Rush Same Day

| | | | | |
|---|---------------------------------------|---|---|--|
| Relinquished by (Signature)  | Date: <u>5/5/16</u> Time: <u>1330</u> | Received by (Signature)  | Date: <u>5/5/16</u> Time: <u>1330</u> | NOTES: <u>Push</u> Bill to Tom Long Non APE N 25366 |
| Relinquished by (Signature)  | Date: <u>5/5/16</u> Time: <u>1635</u> | Received by (Signature)  | Date: <u>5/5/16</u> Time: <u>1635</u> | |
| Relinquished by (Signature)  | Date: <u>5/5/16</u> Time: <u>1725</u> | Received by (Signature)  | Date: <u>05/06/16</u> Time: <u>0725</u> | |
| Relinquished by (Signature) _____ | Date: _____ Time: _____ | Received by (Signature) _____ | Date: _____ Time: _____ | |

Matrix Container: WW - Wastewater, VOA - 40 ml vial, W - Water, A/G - Amber / Or Glass 1 Liter, S - Soil, SD - Solid, L - Liquid, A - Air Bag, 250 ml - Glass wide mouth, C - Charcoal tube, SL - sludge, O - Oil, P/O - Plastic or other

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

OIL CONS. DIV DIST. 3

JUN 20 2016 Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office
in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR Initial Report Final Report

| | |
|--|--|
| Name of Company: Enterprise Field Services LLC | Contact: Thomas Long |
| Address: 614 Reilly Ave, Farmington, NM 87401 | Telephone No. 505-599-2286 |
| Facility Name: Federal E#3A | Facility Type: Natural Gas Gathering Pipeline |

| | | |
|---------------------------|---------------------------|---------------------------------|
| Surface Owner: BLM | Mineral Owner: BLM | Serial Number: NM 038138 |
|---------------------------|---------------------------|---------------------------------|

LOCATION OF RELEASE

| | | | | | | | | |
|-------------------------|----------------------|------------------------|--------------------|-----------------------|----------------------------------|-----------------------|-------------------------------|---------------------------|
| Unit Letter K | Section 13 | Township 27N | Range 8W | Feet from the 2051 | North/South Line South | Feet from the 1535 | East/West Line West | County San Juan |
|-------------------------|----------------------|------------------------|--------------------|-----------------------|----------------------------------|-----------------------|-------------------------------|---------------------------|

Latitude 36.571880 Longitude -107.638095

NATURE OF RELEASE

| | | |
|---|--|--|
| Type of Release: Natural Gas and Condensate | Volume of Release 16.40 MCF Gas; 5-10 BBLs Condensate | Volume Recovered: None |
| Source of Release: Internal Corrosion | Date and Hour of Occurrence: 2/9/2016 @ 4:30 p.m. | Date and Hour of Discovery: 2/9/2016 @ 6:00 p.m. |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom? Courtesy Notification | |
| By Whom? Thomas Long | Date and Time March 16, 2016 @3:29 p.m. | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume | |

If a Watercourse was Impacted, Describe Fully.*
Describe Cause of Problem and Remedial Action: On February 9, 2016, Enterprise technicians discovered a gas leak on the Federal E#3A pipeline. The pipeline was isolated, blown down, locked out and tagged out. Due to the inclement weather conditions, initial repair and remediation activities were not initiated until February 29, 2016. Enterprise determined this release to be reportable per NMOCD and BLM regulation on March 16, 2016 due the volume of subsurface impacts.

Describe Area Affected and Cleanup Action: The contaminant mass was removed by mechanical excavation. The final excavation measured approximately 57 feet long by 21 feet wide and ranging from 4.5 to 5.5 feet deep. Approximately 204 cubic yards of hydrocarbon impacted soil were excavated and transported to a New Mexico Oil Conservation approved land farm facility. A third party corrective action report is included with this "Final" C-141.

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: | OIL CONSERVATION DIVISION | |
| Printed Name: Jon E. Fields | Approved by Environmental Specialist: | |
| Title: Director, Environmental | Approval Date: 7/21/16 | Expiration Date: |
| E-mail Address: jefields@eprod.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 6-16-2016 Phone: (713)381-6684 | | |

* Attach Additional Sheets If Necessary

NUF 16088 55 555

(49)



OIL CONS. DIV DIST. 3

JUN 20 2016

CORRECTIVE ACTION REPORT

Property:

**Federal E #3A Well Tie Release
SW 1/4, S13 T27N R8W
San Juan County, New Mexico**

May 17, 2016

Apex Project No. 725040112136

Prepared for:

**Enterprise Field Services LLC
614 Reilly Avenue
Farmington, NM 87401
Attn: Mr. Thomas Long**

Prepared by:

A handwritten signature in blue ink, reading 'Rane Dechilly', written over a horizontal line.

Ranee Dechilly
Project Scientist

A handwritten signature in blue ink, reading 'Kyle Summers', written over a horizontal line.

Kyle Summers, CPG
Branch Manager/Senior Geologist

TABLE OF CONTENTS

| | | |
|------------|--|----------|
| 1.0 | INTRODUCTION | 1 |
| 1.1 | Site Description & Background..... | 1 |
| 1.2 | Project Objective..... | 1 |
| 2.0 | SITE RANKING | 1 |
| 3.0 | RESPONSE ACTIONS | 2 |
| 3.1 | Soil Excavation Activities..... | 2 |
| 3.2 | Soil Sampling Program..... | 3 |
| 3.3 | Laboratory Analytical Methods..... | 3 |
| 4.0 | DATA EVALUATION | 3 |
| 4.1 | Confirmation Soil Samples..... | 3 |
| 5.0 | FINDINGS AND RECOMMENDATIONS | 4 |
| 6.0 | STANDARD OF CARE, LIMITATIONS, AND RELIANCE | 5 |

LIST OF APPENDICES

| | |
|--------------------|--|
| Appendix A: | Figure 1 – Topographic Map Figure 2 – Site Vicinity Map Figure 3 – Site Map with Soil Analytical Results |
| Appendix B: | Executed C-138 Solid Waste Acceptance Form |
| Appendix C: | Photographic Documentation |
| Appendix D: | Table |
| Appendix E: | Laboratory Analytical Reports & Chain of Custody Documentation |

CORRECTIVE ACTION REPORT

Federal E #3A Well Tie Release

SW 1/4, S13 T27N R8W

San Juan County, New Mexico

Apex Project No. 725040112136

1.0 INTRODUCTION

1.1 Site Description & Background

The Federal E #3A well tie Site is located within the Enterprise Field Services, LLC (Enterprise) pipeline right-of-way (ROW) in the southwest (SW) ¼ of Section 13, Township 27 North, Range 8 West, in rural San Juan County, New Mexico (36.57188N, 107.63811W), referred to hereinafter as the "Site" or "subject Site". The Site is located on land managed by the Bureau of Land Management (BLM). The Site is surrounded by native vegetation rangeland periodically interrupted by oil and gas gathering facilities, including the Enterprise natural gas well tie which traverses the area from east to west.

A surface release on the Federal E #3A well tie was discovered on February 9, 2016. The surface expression of the release was identified by melted snow and escaping gas. Beginning on February 29, 2016, Enterprise initiated excavation activities to facilitate the repair of the pipeline and to remediate potential hydrocarbon impact. The pipeline release, which resulted from corrosion of the pipe, was initially clamped, and subsequently a 16-inch Type-B repair sleeve was installed over the clamp.

A topographic map depicting the location of the Site is included as Figure 1, and a Site Vicinity Map is included as Figure 2 in Appendix A.

1.2 Project Objective

The primary objective of the corrective action was to reduce the concentration of constituents of concern (COCs) in the on-Site soils to below the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) *Remediation Action Levels (RALs)* using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

2.0 SITE RANKING

In accordance with the New Mexico ENMRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases*, Apex utilized the general site characteristics obtained during the completion of corrective action activities to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:



| Ranking Criteria | | | Ranking Score |
|--|-------------------|----|---------------|
| Depth to Groundwater | <50 feet | 20 | 0 |
| | 50 to 99 feet | 10 | |
| | >100 feet | 0 | |
| Wellhead Protection Area • <1,000 feet from a water source, or; <200 feet from private domestic water source. | Yes | 20 | 0 |
| | No | 0 | |
| Distance to Surface Water Body | <200 feet | 20 | 10 |
| | 200 to 1,000 feet | 10 | |
| | >1,000 feet | 0 | |
| Total Ranking Score | | | 10 |

Based on Apex's evaluation of the scoring criteria, the Site would have a Total Ranking Score of 10. This ranking is based on the following:

- No nearby water wells were identified on the Office of the State Engineer (OSE) website. Based on the elevation of the Site with respect to the canyon floor, the depth to groundwater at the Site is anticipated to be greater than 100 feet below grade surface (bgs), resulting in a ranking of "0" for depth to groundwater.
- No water source wells (municipal/community wells) were identified within 1,000 feet of the Site. No private domestic water sources were identified within 200 feet of the Site. These proximities result in a wellhead protection area ranking of "0".
- The release point is located approximately 500 feet east of an ephemeral wash, which is identified as a "blue line" on the United States Geological Society topographic map. This information supports a distance to surface water ranking of "10".

3.0 RESPONSE ACTIONS

3.1 Soil Excavation Activities

A surface release on the Federal E #3A well tie was discovered on February 9, 2016. The surface expression of the release was identified by melted snow and escaping gas. Beginning on February 29, 2016, Enterprise initiated excavation activities to facilitate the repair of the pipeline and to remediate potential hydrocarbon impact. The pipeline release, which resulted from corrosion of the pipe, was initially clamped, and subsequently a 16-inch Type-B repair sleeve was installed over the clamp. During the corrective action activities, West States Energy Contractors provided heavy equipment and labor support, and Rane Deechilly, an Apex environmental professional, provided environmental support.

On March 24, 2016, initial confirmation samples (C-1 through C-8) were collected from the sidewalls and base of the excavation for laboratory analysis. Based on laboratory analytical results, soils represented by confirmation soil samples C-1 (west sidewall) and C-4 (east sidewall) exhibited slightly elevated COC concentrations. On April 4, 2016, the west and east walls were over-excavated to remove remaining affected soils. Confirmation soils samples C-9 through C-14 were collected from the expanded excavation.

The final excavation measured approximately 57 feet long by 21 feet at the maximum extents, with total depths ranging from 4.5 feet bgs to 5.5 feet bgs.

The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated silty sands and shaly sandstone.

A total of approximately 204 cubic yards of hydrocarbon affected soils were transported to the Envirotech, Inc. (Envirotech) landfarm near Hilltop, NM for disposal/remediation. The executed C-138 form is provided in Appendix B. The excavation was backfilled with clean imported fill and contoured to surrounding grade.

Figure 3 is a site map that indicates the approximate location of the excavated area in relation to pertinent land features (Appendix A). Photographic documentation of the field activities is included in Appendix C.

3.2 Soil Sampling Program

Apex screened head-space samples of the impacted soils with a photoionization (PID) fitted with a 10.6 eV lamp to estimate excavation limits.

Apex's soil sampling program included the collection of fourteen (14) confirmation samples (C-1 through C-14) from the sidewalls and base of the excavation for laboratory analysis. Soils associated with confirmation samples C-1 and C-2 were removed by over-excavation.

Figure 3 depicts the approximate location of the excavated areas and shows the final confirmation sample locations in relation to the final excavation dimensions (Appendix A).

The confirmation soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied label, and placed on ice in a cooler, which was secured with a custody seal. The samples and completed chain-of-custody form were relinquished to Hall Environmental Laboratory of Albuquerque, New Mexico for analysis.

3.3 Laboratory Analytical Methods

The confirmation soil samples were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA SW-846 Method #8021, and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (GRO) using EPA SW-846 Method #8015.

Laboratory results are summarized in Table 1, included in Appendix D. The executed chain-of-custody form and laboratory data sheets are provided in Appendix E.

4.0 DATA EVALUATION

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to condensate releases, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules, specifically NMAC 19.15.29 *Release Notification*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

4.1 Confirmation Soil Samples

Apex compared the BTEX and TPH concentrations or practicable quantitation limits (PQLs) associated with the final confirmation samples (C-2, C-3, and C-5 through C-14) collected from the excavated area to the OCD RALs for sites having a total ranking score of "10". Soil samples C-1 and C-4 were removed by over-excavation and are not included in the following discussion.

- The laboratory analyses of the confirmation samples from soils remaining in place exhibited benzene concentrations from below the PQLs to 0.37 milligram per kilogram (mg/kg) (C-7), which are below the OCD RAL of 10 mg/kg.
- The laboratory analyses of the confirmation samples from soils remaining in place indicate total BTEX concentrations ranging from below the PQLs to 13 mg/kg (C-7), which are below the OCD RAL of 50 mg/kg.
- The laboratory analyses of the confirmation samples collected from soils remaining in place indicate combined TPH GRO/DRO concentrations ranging from below the PQLs to 171 mg/kg (C-7), which are below the OCD RAL of 1,000 mg/kg for a Site ranking of "10".

Confirmation sample laboratory analytical results are provided in Table 1 in Appendix D.

5.0 FINDINGS AND RECOMMENDATIONS

The Federal E #3A well tie Site is located within the Enterprise pipeline ROW in the SW $\frac{1}{4}$ of Section 13, Township 27 North, Range 8 West, in rural San Juan County, New Mexico. The Site is located on land managed by BLM. The Site is surrounded by native vegetation rangeland periodically interrupted by oil and gas gathering facilities, including the Enterprise natural gas well tie which traverses the area from east to west

A surface release on the Federal E #3A well tie was discovered on February 9, 2016. The surface expression of the release was identified by melted snow and escaping gas. Beginning on February 29, 2016, Enterprise initiated excavation activities to facilitate the repair of the pipeline and to remediate potential hydrocarbon impact. The pipeline release, which resulted from corrosion of the pipe, was initially clamped, and subsequently a 16-inch Type-B repair sleeve was installed over the clamp.

- The primary objective of the corrective actions was to reduce the concentration of COCs in the on-Site soils to below the New Mexico EMNRD OCD RALs using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.
- The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated silty sands and shaly sandstone.
- The final excavation measure approximately 57 feet long by 21 feet wide at the maximum extents, with total depths ranging from 4.5 feet bgs to 5.5 feet bgs.
- Prior to backfilling, fourteen (14) confirmation soil samples were collected from the resulting final excavation for laboratory analysis. Soil samples C-1 and C-4 were removed by over-excavation. Based on analytical results, soils remaining in place do not exhibit BTEX or TPH GRO/DRO concentrations above the OCD RALs for a site ranking of "10".
- A total of approximately 204 cubic yards of hydrocarbon affected soils were transported to the Envirotech landfarm near Hilltop, NM for disposal/remediation. The excavation was backfilled with clean imported fill and contoured to the approximate surrounding grade.

Based on the laboratory analytical results, no additional investigation or corrective action appears warranted at this time.



6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

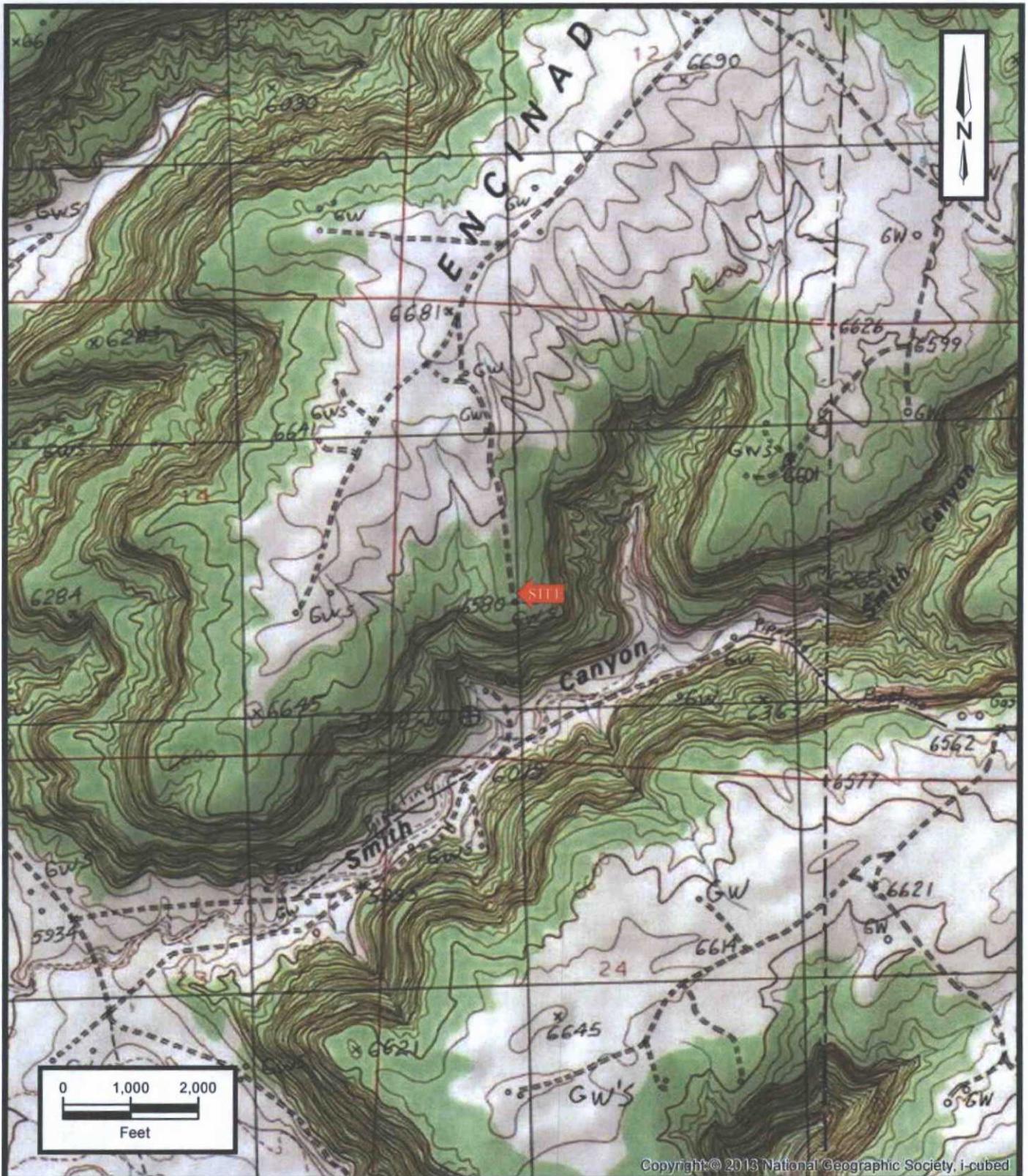
Apex's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Apex makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Apex cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Apex's findings and recommendations are based solely upon data available to Apex at the time of these services.

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.

APPENDIX A

Figures



Copyright © 2013 National Geographic Society, i-cubed

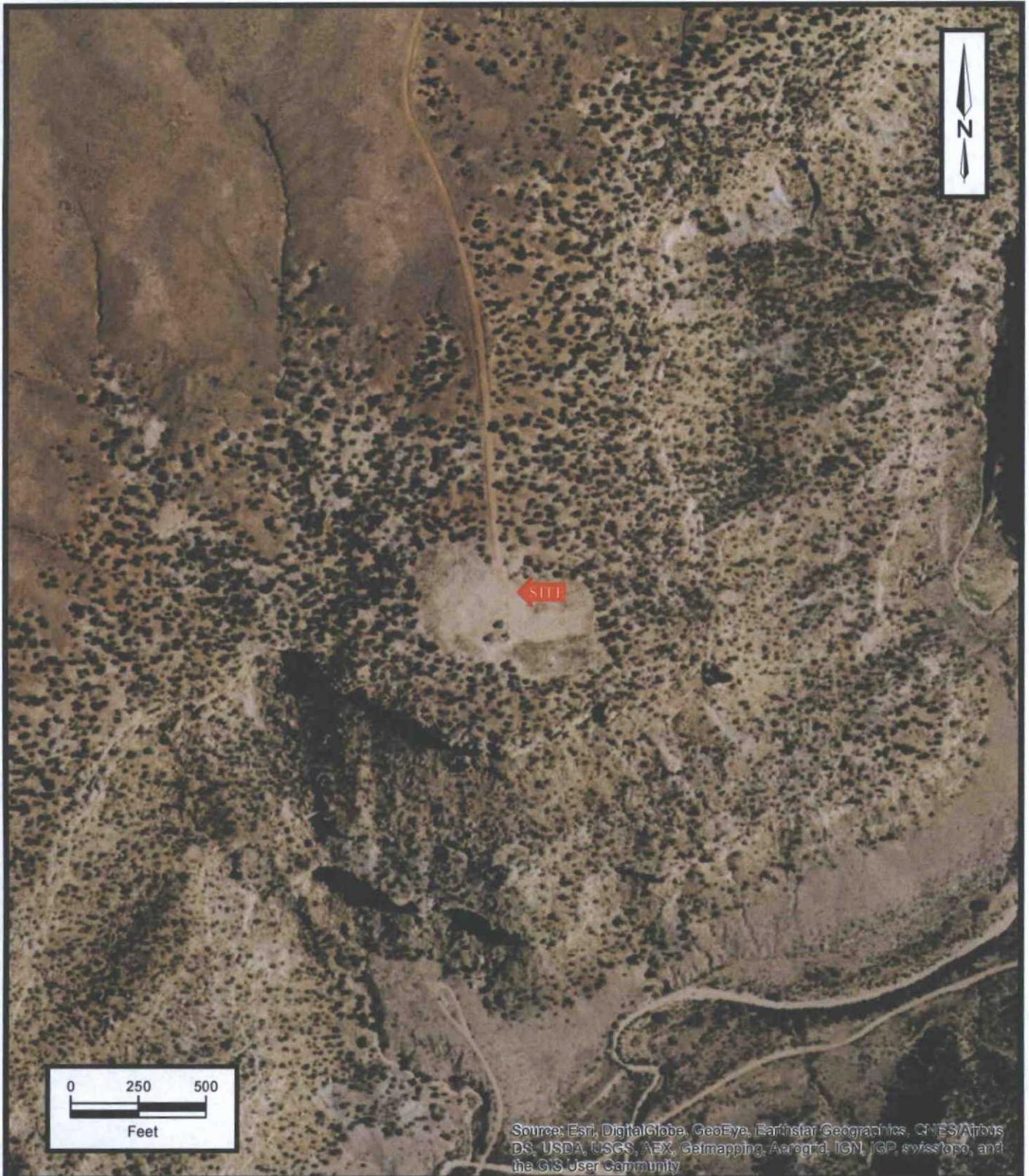
Federal E #3A Well Tie Release
 SW1/4 Sec13 T27N R8W
 San Juan County, New Mexico
 36.57188N, 107.63811W



Apex TITAN, Inc.
 606 South Rio Grande, Suite A
 Aztec, NM 87410
 Phone: (505) 334-5200
 www.apexcos.com
 A Subsidiary of Apex Companies, LLC

FIGURE 1
Topographic Map
 Fresno Canyon, NM Quadrangle
 1985

Project No. 725040112136



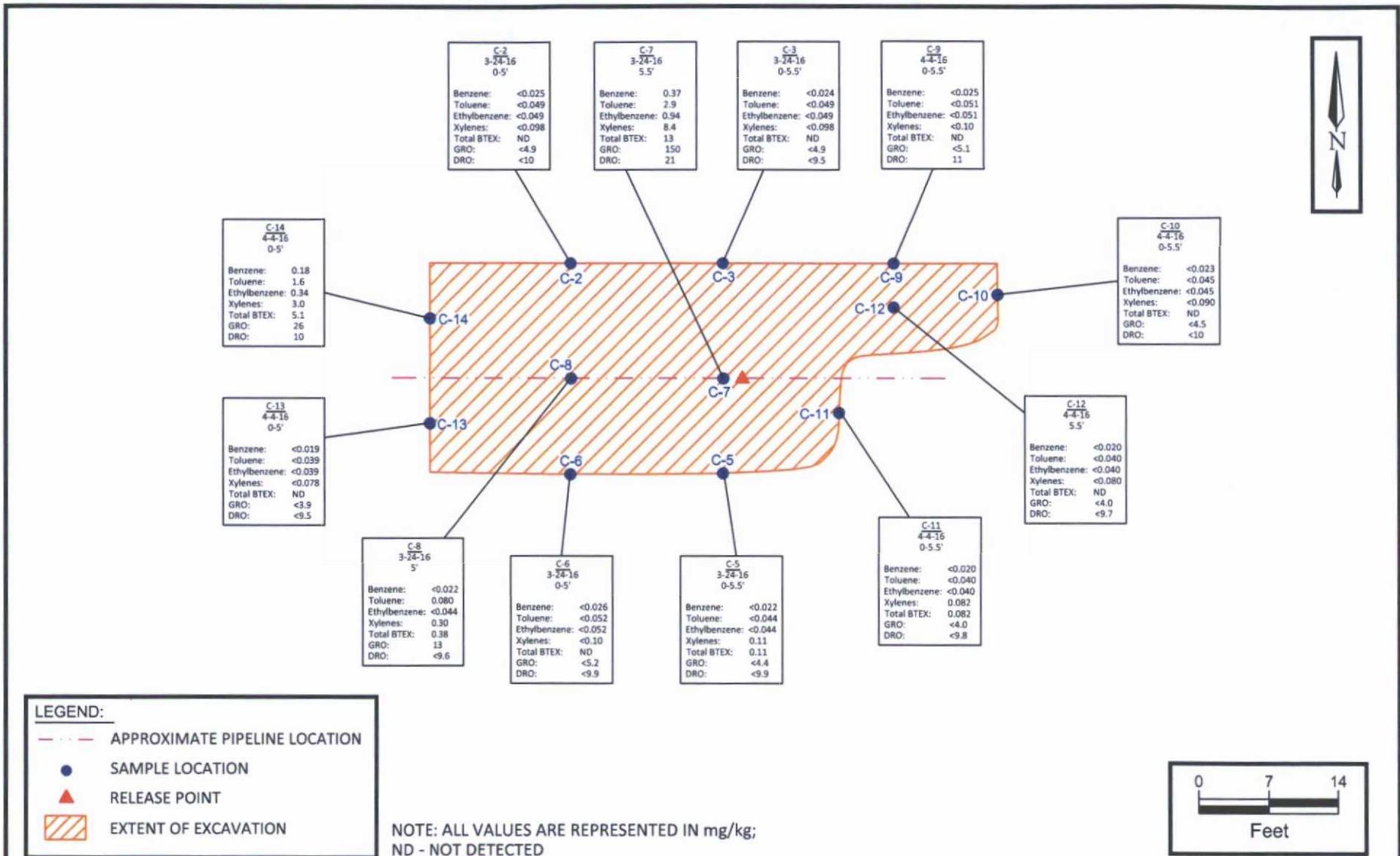
Federal E #3A Well Tie Release
 SW1/4 Sec13 T27N R8W
 San Juan County, New Mexico
 36.57188N, 107.63811W

Project No. 725040112136



Apex TITAN, Inc.
 606 South Rio Grande, Suite A
 Aztec, NM 87410
 Phone: (505) 334-5200
 www.apexcos.com
 A Subsidiary of Apex Companies, LLC

FIGURE 2
Site Vicinity Map



Federal E #3A Well Tie Release
 SW1/4 Sec13 T27N R8W
 San Juan County, New Mexico
 36.57188N, 107.63811W

Project No. 725040112136

Apex TITAN, Inc.
 606 S. Rio Grande, Suite A
 Aztec, New Mexico 87410
 Phone: (505) 334-5200
www.apexcos.com
 A Subsidiary of Apex Companies, LLC

FIGURE 3

**Site Map with
Soil Analytical Results**

APPENDIX B

Executed C-138 Solid Waste Acceptance Forms

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

97057-0763

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. **Originating Site:** Federal E#3A

March 2016

3. **Location of Material (Street Address, City, State or ULSTR):**
UL K Section 13 T 27N R 8W, GPS 36.571880, -107.638095, Rio Arriba, NM

4. **Source and Description of Waste:**

Source: Natural Gas Pipeline Release

Description: Hydrocarbon impacted soils associated with remediation activities for a natural gas pipeline release.

Estimated Volume 50 yd³ Known Volume (to be entered by the operator at the end of the haul) 120 yd³ bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Thomas Long, representative or authorized agent for Enterprise Field Services, LLC do hereby

Generator Signature

certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator Use Only: Waste Acceptance Frequency Monthly Weekly Per Load

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long, 2-29-16, representative for Enterprise Field Services, LLC authorize Envirotech Basin Disposal, Inc. to complete

Generator Signature

the required testing/sign the Generator Waste Testing Certification.

I, Eric Liese, representative for Envirotech, Inc. do hereby certify that

Representative/Agent Signature

representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. **Transporter:** West States

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility * Permit #: NM 01-0011

Address of Facility: Hilltop, NM

Method of Treatment and/or Disposal:

Evaporation Injection Treating Plant Landfarm Landfill Other

Waste Acceptance Status:

APPROVED

DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Eric Liese

TITLE: Landfarm Admin

DATE: 2-29-16

SIGNATURE: Eric Liese

TELEPHONE NO.:

505-632-0615

Surface Waste Management Facility Authorized Agent

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

97057-0763 Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

| | |
|--|--|
| 1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401 | |
| 2. Originating Site: Federal E#3A | |
| 3. Location of Material (Street Address, City, State or ULSTR): UL K Section 13 T 27N R 8W, GPS 36.571880, -107.638095, Rio Arriba, NM April 2016 | |
| 4. Source and Description of Waste: Source: Natural Gas Pipeline Release Description: Hydrocarbon impacted soils associated with remediation activities for a natural gas pipeline release. Estimated Volume <u>50</u> yd ³ bbls Known Volume (to be entered by the operator at the end of the haul) <u>84</u> yd ³ bbls | |
| 5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, <u>John Long</u> , representative or authorized agent for <u>Enterprise Field Services, LLC</u> do hereby Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) <input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input checked="" type="checkbox"/> Per Load <input type="checkbox"/> RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input checked="" type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4) GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, <u>John Long</u> , representative for <u>Enterprise Field Services, LLC</u> authorize <u>Envirotech</u> <u>Basin Disposal, Inc.</u> to complete Generator Signature the required testing/sign the Generator Waste Testing Certification. I, <u>MA [Signature]</u> , representative for <u>Envirotech, Inc.</u> do hereby certify that Representative/Agent Signature representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC. | |
| 5. Transporter: Various approved trucking | |

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility * Permit #: NM 01-0011
Address of Facility: Hilltop, NM

Method of Treatment and/or Disposal:

Evaporation Injection Treating Plant Landfarm Landfill Other

Waste Acceptance Status:

APPROVED

DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Cristofari
SIGNATURE: [Signature]
Surface Waste Management Facility Authorized Agent

TITLE: Environmental Manager DATE: 4/2/16
TELEPHONE NO.: 505-632-0615

APPENDIX C

Photographic Documentation

Photograph 1

View of the release area, facing southwest.



Photograph 2

View of in-process corrective action activities, facing south.



Photograph 3

View of the first stage of the excavation, facing southwest.



Photograph 4

View of the first stage of the excavation, facing west.



Photograph 5

View of the extended west portion of the final excavation, facing west.



APPENDIX D

Table



TABLE 1
Federal E #3A Well Tie Release
SOIL ANALYTICAL SUMMARY

| Sample I.D. | Date | Sample Depth (feet) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Xylenes (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) |
|--|---------|---------------------|-----------------|-----------------|----------------------|-----------------|--------------------|-----------------|-----------------|
| New Mexico Energy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level | | | 10 | NE | NE | NE | 50 | 1,000 | |
| Confirmation Samples Removed by Excavation | | | | | | | | | |
| C-1 | 3.24.16 | 0 to 5 | 2.0 | 13 | 5.0 | 38 | 58 | 330 | 71 |
| C-4 | 3.24.16 | 0 to 5.5 | 1.4 | 12 | 4.7 | 44 | 62 | 510 | 71 |
| Excavation Confirmation Samples | | | | | | | | | |
| C-2 | 3.24.16 | 0 to 5 | <0.025 | <0.049 | <0.049 | <0.098 | ND | <4.9 | <10 |
| C-3 | 3.24.16 | 0 to 5.5 | <0.024 | <0.049 | <0.049 | <0.098 | ND | <4.9 | <9.5 |
| C-5 | 3.24.16 | 0 to 5.5 | <0.022 | <0.044 | <0.044 | 0.11 | 0.11 | <4.4 | <9.9 |
| C-6 | 3.24.16 | 0 to 5 | <0.026 | <0.052 | <0.052 | <0.10 | ND | <5.2 | <9.9 |
| C-7 | 3.24.16 | 5.5 | 0.37 | 2.9 | 0.94 | 8.4 | 13 | 150 | 21 |
| C-8 | 3.24.16 | 5 | <0.022 | 0.080 | <0.044 | 0.30 | 0.38 | 13 | <9.6 |
| C-9 | 4.4.16 | 0 to 5.5 | <0.025 | <0.051 | <0.051 | <0.10 | ND | <5.1 | 11 |
| C-10 | 4.4.16 | 0 to 5.5 | <0.023 | <0.045 | <0.045 | <0.090 | ND | <4.5 | <10 |
| C-11 | 4.4.16 | 0 to 5.5 | <0.020 | <0.040 | <0.040 | 0.082 | 0.082 | <4.0 | <9.8 |
| C-12 | 4.4.16 | 5.5 | <0.020 | <0.040 | <0.040 | <0.080 | ND | <4.0 | <9.7 |
| C-13 | 4.4.16 | 0 to 5 | <0.019 | <0.039 | <0.039 | <0.078 | ND | <3.9 | <9.5 |
| C-14 | 4.4.16 | 0 to 5 | 0.18 | 1.6 | 0.34 | 3.0 | 5.1 | 26 | 10 |

Note: Concentrations in bold and yellow exceed the applicable OCD Remediation Action Level

ND = Not Detected above the Laboratory Reporting Limits

NE = Not established

APPENDIX E

Laboratory Analytical Reports & Chain of Custody Documentation



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 28, 2016

Kyle Summers
APEX TITAN
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Federal E 3A

OrderNo.: 1603C65

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 3/25/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1603C65

Date Reported: 3/28/2016

CLIENT: APEX TITAN

Client Sample ID: C-1

Project: Federal E 3A

Collection Date: 3/24/2016 2:15:00 PM

Lab ID: 1603C65-001

Matrix: MEOH (SOIL)

Received Date: 3/25/2016 7:45:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | 71 | 9.7 | | mg/Kg | 1 | 3/25/2016 10:33:22 AM | 24439 |
| Surr: DNOP | 36.7 | 70-130 | S | %Rec | 1 | 3/25/2016 10:33:22 AM | 24439 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 330 | 23 | | mg/Kg | 5 | 3/25/2016 9:16:28 AM | A33070 |
| Surr: BFB | 277 | 66.2-112 | S | %Rec | 5 | 3/25/2016 9:16:28 AM | A33070 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | 2.0 | 0.12 | | mg/Kg | 5 | 3/25/2016 9:16:28 AM | B33070 |
| Toluene | 13 | 0.23 | | mg/Kg | 5 | 3/25/2016 9:16:28 AM | B33070 |
| Ethylbenzene | 5.0 | 0.23 | | mg/Kg | 5 | 3/25/2016 9:16:28 AM | B33070 |
| Xylenes, Total | 38 | 0.46 | | mg/Kg | 5 | 3/25/2016 9:16:28 AM | B33070 |
| Surr: 4-Bromofluorobenzene | 164 | 80-120 | S | %Rec | 5 | 3/25/2016 9:16:28 AM | B33070 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Project: Federal E 3A
Lab ID: 1603C65-002

Client Sample ID: C-2
Collection Date: 3/24/2016 2:20:00 PM
Matrix: MEOH (SOIL) **Received Date:** 3/25/2016 7:45:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 3/25/2016 10:55:00 AM | 24439 |
| Surr: DNOP | 61.9 | 70-130 | S | %Rec | 1 | 3/25/2016 10:55:00 AM | 24439 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 3/25/2016 9:41:09 AM | A33070 |
| Surr: BFB | 103 | 66.2-112 | | %Rec | 1 | 3/25/2016 9:41:09 AM | A33070 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 3/25/2016 9:41:09 AM | B33070 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 3/25/2016 9:41:09 AM | B33070 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 3/25/2016 9:41:09 AM | B33070 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 3/25/2016 9:41:09 AM | B33070 |
| Surr: 4-Bromofluorobenzene | 121 | 80-120 | S | %Rec | 1 | 3/25/2016 9:41:09 AM | B33070 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Qualifiers: | | |
|-------------|---|---|
| * | Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
 Project: Federal E 3A
 Lab ID: 1603C65-003

Client Sample ID: C-3
 Collection Date: 3/24/2016 2:25:00 PM
 Matrix: MEOH (SOIL) Received Date: 3/25/2016 7:45:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 3/25/2016 11:16:28 AM | 24439 |
| Surr: DNOP | 44.3 | 70-130 | S | %Rec | 1 | 3/25/2016 11:16:28 AM | 24439 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 3/25/2016 10:05:39 AM | A33070 |
| Surr: BFB | 95.9 | 66.2-112 | | %Rec | 1 | 3/25/2016 10:05:39 AM | A33070 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 3/25/2016 10:05:39 AM | B33070 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 3/25/2016 10:05:39 AM | B33070 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 3/25/2016 10:05:39 AM | B33070 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 3/25/2016 10:05:39 AM | B33070 |
| Surr: 4-Bromofluorobenzene | 117 | 80-120 | | %Rec | 1 | 3/25/2016 10:05:39 AM | B33070 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Qualifiers: | | |
|-------------|---|---|
| * | Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: C-4

Project: Federal E 3A

Collection Date: 3/24/2016 2:30:00 PM

Lab ID: 1603C65-004

Matrix: MEOH (SOIL)

Received Date: 3/25/2016 7:45:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | 71 | 9.4 | | mg/Kg | 1 | 3/25/2016 11:38:02 AM | 24439 |
| Surr: DNOP | 25.5 | 70-130 | S | %Rec | 1 | 3/25/2016 11:38:02 AM | 24439 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 510 | 44 | | mg/Kg | 10 | 3/25/2016 11:19:30 AM | A33070 |
| Surr: BFB | 360 | 66.2-112 | S | %Rec | 10 | 3/25/2016 11:19:30 AM | A33070 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | 1.4 | 0.022 | | mg/Kg | 1 | 3/25/2016 10:30:17 AM | B33070 |
| Toluene | 12 | 0.44 | | mg/Kg | 10 | 3/25/2016 11:19:30 AM | B33070 |
| Ethylbenzene | 4.7 | 0.44 | | mg/Kg | 10 | 3/25/2016 11:19:30 AM | B33070 |
| Xylenes, Total | 44 | 0.88 | | mg/Kg | 10 | 3/25/2016 11:19:30 AM | B33070 |
| Surr: 4-Bromofluorobenzene | 175 | 80-120 | S | %Rec | 10 | 3/25/2016 11:19:30 AM | B33070 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
 Project: Federal E 3A
 Lab ID: 1603C65-005

Client Sample ID: C-5
 Collection Date: 3/24/2016 2:35:00 PM
 Matrix: MEOH (SOIL) Received Date: 3/25/2016 7:45:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 3/25/2016 11:59:35 AM | 24439 |
| Surr: DNOP | 76.4 | 70-130 | | %Rec | 1 | 3/25/2016 11:59:35 AM | 24439 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.4 | | mg/Kg | 1 | 3/25/2016 11:44:05 AM | A33070 |
| Surr: BFB | 116 | 66.2-112 | S | %Rec | 1 | 3/25/2016 11:44:05 AM | A33070 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.022 | | mg/Kg | 1 | 3/25/2016 11:44:05 AM | B33070 |
| Toluene | ND | 0.044 | | mg/Kg | 1 | 3/25/2016 11:44:05 AM | B33070 |
| Ethylbenzene | ND | 0.044 | | mg/Kg | 1 | 3/25/2016 11:44:05 AM | B33070 |
| Xylenes, Total | 0.11 | 0.087 | | mg/Kg | 1 | 3/25/2016 11:44:05 AM | B33070 |
| Surr: 4-Bromofluorobenzene | 120 | 80-120 | S | %Rec | 1 | 3/25/2016 11:44:05 AM | B33070 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Qualifiers: | | |
|-------------|---|---|
| * | Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1603C65

Date Reported: 3/28/2016

CLIENT: APEX TITAN

Client Sample ID: C-6

Project: Federal E 3A

Collection Date: 3/24/2016 2:40:00 PM

Lab ID: 1603C65-006

Matrix: MEOH (SOIL)

Received Date: 3/25/2016 7:45:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 3/25/2016 12:21:11 PM | 24439 |
| Surr: DNOP | 98.5 | 70-130 | | %Rec | 1 | 3/25/2016 12:21:11 PM | 24439 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.2 | | mg/Kg | 1 | 3/25/2016 10:45:22 AM | 24428 |
| Surr: BFB | 105 | 66.2-112 | | %Rec | 1 | 3/25/2016 10:45:22 AM | 24428 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.026 | | mg/Kg | 1 | 3/25/2016 10:45:22 AM | 24428 |
| Toluene | ND | 0.052 | | mg/Kg | 1 | 3/25/2016 10:45:22 AM | 24428 |
| Ethylbenzene | ND | 0.052 | | mg/Kg | 1 | 3/25/2016 10:45:22 AM | 24428 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 3/25/2016 10:45:22 AM | 24428 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %Rec | 1 | 3/25/2016 10:45:22 AM | 24428 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: C-7

Project: Federal E 3A

Collection Date: 3/24/2016 2:45:00 PM

Lab ID: 1603C65-007

Matrix: MEOH (SOIL)

Received Date: 3/25/2016 7:45:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | 21 | 10 | | mg/Kg | 1 | 3/25/2016 12:42:39 PM | 24439 |
| Surr: DNOP | 13.9 | 70-130 | S | %Rec | 1 | 3/25/2016 12:42:39 PM | 24439 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 150 | 4.6 | | mg/Kg | 1 | 3/25/2016 11:09:05 AM | 24428 |
| Surr: BFB | 682 | 66.2-112 | S | %Rec | 1 | 3/25/2016 11:09:05 AM | 24428 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | 0.37 | 0.023 | | mg/Kg | 1 | 3/25/2016 11:09:05 AM | 24428 |
| Toluene | 2.9 | 0.046 | | mg/Kg | 1 | 3/25/2016 11:09:05 AM | 24428 |
| Ethylbenzene | 0.94 | 0.046 | | mg/Kg | 1 | 3/25/2016 11:09:05 AM | 24428 |
| Xylenes, Total | 8.4 | 0.093 | | mg/Kg | 1 | 3/25/2016 11:09:05 AM | 24428 |
| Surr: 4-Bromofluorobenzene | 154 | 80-120 | S | %Rec | 1 | 3/25/2016 11:09:05 AM | 24428 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Project: Federal E 3A
Lab ID: 1603C65-008

Client Sample ID: C-8
Collection Date: 3/24/2016 2:50:00 PM
Received Date: 3/25/2016 7:45:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 3/25/2016 1:04:15 PM | 24439 |
| Surr: DNOP | 28.7 | 70-130 | S | %Rec | 1 | 3/25/2016 1:04:15 PM | 24439 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 13 | 4.4 | | mg/Kg | 1 | 3/25/2016 11:32:49 AM | 24428 |
| Surr: BFB | 151 | 66.2-112 | S | %Rec | 1 | 3/25/2016 11:32:49 AM | 24428 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.022 | | mg/Kg | 1 | 3/25/2016 11:32:49 AM | 24428 |
| Toluene | 0.080 | 0.044 | | mg/Kg | 1 | 3/25/2016 11:32:49 AM | 24428 |
| Ethylbenzene | ND | 0.044 | | mg/Kg | 1 | 3/25/2016 11:32:49 AM | 24428 |
| Xylenes, Total | 0.30 | 0.088 | | mg/Kg | 1 | 3/25/2016 11:32:49 AM | 24428 |
| Surr: 4-Bromofluorobenzene | 120 | 80-120 | S | %Rec | 1 | 3/25/2016 11:32:49 AM | 24428 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Qualifiers: | | |
|-------------|---|---|
| * | Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603C65

28-Mar-16

Client: APEX TITAN
Project: Federal E 3A

| Sample ID: LCS-24439 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 24439 | RunNo: 33066 | | | | | | | | |
| Prep Date: 3/25/2016 | Analysis Date: 3/25/2016 | SeqNo: 1014610 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 39 | 10 | 50.00 | 0 | 78.8 | 65.8 | 136 | | | |
| Surr: DNOP | 4.9 | | 5.000 | | 98.0 | 70 | 130 | | | |

| Sample ID: MB-24439 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 24439 | RunNo: 33066 | | | | | | | | |
| Prep Date: 3/25/2016 | Analysis Date: 3/25/2016 | SeqNo: 1014613 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Surr: DNOP | 10 | | 10.00 | | 101 | 70 | 130 | | | |

| Sample ID: 1603C65-001AMS | SampType: MS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|----------------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: C-1 | Batch ID: 24439 | RunNo: 33066 | | | | | | | | |
| Prep Date: 3/25/2016 | Analysis Date: 3/25/2016 | SeqNo: 1015112 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 220 | 10 | 49.80 | 70.74 | 295 | 31.2 | 162 | | | S |
| Surr: DNOP | 5.1 | | 4.980 | | 103 | 70 | 130 | | | |

| Sample ID: 1603C65-001AMSD | SampType: MSD | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: C-1 | Batch ID: 24439 | RunNo: 33066 | | | | | | | | |
| Prep Date: 3/25/2016 | Analysis Date: 3/25/2016 | SeqNo: 1015113 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 92 | 9.9 | 49.70 | 70.74 | 43.4 | 31.2 | 162 | 80.8 | 31.7 | R |
| Surr: DNOP | 2.4 | | 4.970 | | 47.3 | 70 | 130 | 0 | 0 | S |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603C65

28-Mar-16

Client: APEX TITAN

Project: Federal E 3A

| | | | | | | | | | | |
|-------------------------------|----------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | 2.5UG GRO LCS | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | A33070 | RunNo: | 33070 | | | | | |
| Prep Date: | | Analysis Date: | 3/25/2016 | SeqNo: | 1015267 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24 | 5.0 | 25.00 | 0 | 94.6 | 80 | 120 | | | |
| Surr: BFB | 1000 | | 1000 | | 101 | 66.2 | 112 | | | |

| | | | | | | | | | | |
|-------------------------------|-----------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | 1603C65-001AMS | SampType: | MS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | C-1 | Batch ID: | A33070 | RunNo: | 33070 | | | | | |
| Prep Date: | | Analysis Date: | 3/25/2016 | SeqNo: | 1015268 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 470 | 23 | 116.2 | 326.7 | 121 | 59.3 | 143 | | | |
| Surr: BFB | 14000 | | 4647 | | 306 | 66.2 | 112 | | | S |

| | | | | | | | | | | |
|-------------------------------|------------------------|----------------|------------------|-------------|---|----------|--------------|-------|----------|------|
| Sample ID | 1603C65-001AMSD | SampType: | MSD | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | C-1 | Batch ID: | A33070 | RunNo: | 33070 | | | | | |
| Prep Date: | | Analysis Date: | 3/25/2016 | SeqNo: | 1015269 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 460 | 23 | 116.2 | 326.7 | 117 | 59.3 | 143 | 0.839 | 20 | |
| Surr: BFB | 14000 | | 4647 | | 303 | 66.2 | 112 | 0 | 0 | S |

| | | | | | | | | | | |
|-------------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | MB-24428 | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 24428 | RunNo: | 33067 | | | | | |
| Prep Date: | 3/24/2016 | Analysis Date: | 3/25/2016 | SeqNo: | 1015282 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 1100 | | 1000 | | 105 | 66.2 | 112 | | | |

| | | | | | | | | | | |
|-------------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | LCS-24428 | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 24428 | RunNo: | 33067 | | | | | |
| Prep Date: | 3/24/2016 | Analysis Date: | 3/25/2016 | SeqNo: | 1015283 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24 | 5.0 | 25.00 | 0 | 94.2 | 80 | 120 | | | |
| Surr: BFB | 1100 | | 1000 | | 114 | 66.2 | 112 | | | S |

| | | | | | | | | | | |
|-------------------------------|------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | B19 | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | A33070 | RunNo: | 33070 | | | | | |
| Prep Date: | | Analysis Date: | 3/25/2016 | SeqNo: | 1015316 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | | | | | | | | | | |
| Surr: BFB | | | | | | | | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- D Sample Diluted Due to Matrix
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S % Recovery outside of range due to dilution or matrix
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603C65

28-Mar-16

Client: APEX TITAN

Project: Federal E 3A

| Sample ID: B19 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: A33070 | RunNo: 33070 | | | | | | | | |
| Prep Date: | Analysis Date: 3/25/2016 | SeqNo: 1015316 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 910 | | 1000 | | 90.9 | 66.2 | 112 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603C65

28-Mar-16

Client: APEX TITAN
Project: Federal E 3A

| Sample ID | 100NG BTEX LCS | | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|----------------------------|----------------|-------|--------------------------|---------------------------------------|------|--------------|-----------|------|----------|------|
| Client ID: | LCSS | | Batch ID: B33070 | RunNo: 33070 | | | | | | |
| Prep Date: | | | Analysis Date: 3/25/2016 | SeqNo: 1015273 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.88 | 0.025 | 1.000 | 0 | 88.4 | 75.3 | 123 | | | |
| Toluene | 0.96 | 0.050 | 1.000 | 0 | 96.4 | 80 | 124 | | | |
| Ethylbenzene | 0.97 | 0.050 | 1.000 | 0 | 96.5 | 82.8 | 121 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 98.7 | 83.9 | 122 | | | |
| Surr: 4-Bromofluorobenzene | 1.2 | | 1.000 | | 119 | 80 | 120 | | | |

| Sample ID | 1603C65-002AMS | | SampType: MS | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|----------------------------|----------------|-------|--------------------------|---------------------------------------|------|--------------|-----------|------|----------|------|
| Client ID: | C-2 | | Batch ID: B33070 | RunNo: 33070 | | | | | | |
| Prep Date: | | | Analysis Date: 3/25/2016 | SeqNo: 1015274 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.84 | 0.025 | 0.9833 | 0 | 85.6 | 71.5 | 122 | | | |
| Toluene | 0.96 | 0.049 | 0.9833 | 0.01937 | 95.8 | 71.2 | 123 | | | |
| Ethylbenzene | 0.99 | 0.049 | 0.9833 | 0.01091 | 100 | 75.2 | 130 | | | |
| Xylenes, Total | 3.1 | 0.098 | 2.950 | 0.06775 | 102 | 72.4 | 131 | | | |
| Surr: 4-Bromofluorobenzene | 1.2 | | 0.9833 | | 124 | 80 | 120 | | | S |

| Sample ID | 1603C65-002AMSD | | SampType: MSD | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|----------------------------|-----------------|-------|--------------------------|---------------------------------------|------|--------------|-----------|------|----------|------|
| Client ID: | C-2 | | Batch ID: B33070 | RunNo: 33070 | | | | | | |
| Prep Date: | | | Analysis Date: 3/25/2016 | SeqNo: 1015275 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.81 | 0.025 | 0.9833 | 0 | 82.0 | 71.5 | 122 | 4.32 | 20 | |
| Toluene | 0.90 | 0.049 | 0.9833 | 0.01937 | 89.5 | 71.2 | 123 | 6.66 | 20 | |
| Ethylbenzene | 0.91 | 0.049 | 0.9833 | 0.01091 | 91.3 | 75.2 | 130 | 9.00 | 20 | |
| Xylenes, Total | 2.8 | 0.098 | 2.950 | 0.06775 | 91.9 | 72.4 | 131 | 10.4 | 20 | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 0.9833 | | 112 | 80 | 120 | 0 | 0 | |

| Sample ID | MB-24428 | | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|----------------------------|-----------|-------|--------------------------|---------------------------------------|------|--------------|-----------|------|----------|------|
| Client ID: | PBS | | Batch ID: 24428 | RunNo: 33067 | | | | | | |
| Prep Date: | 3/24/2016 | | Analysis Date: 3/25/2016 | SeqNo: 1015303 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 110 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603C65

28-Mar-16

Client: APEX TITAN

Project: Federal E 3A

| Sample ID | LCS-24428 | | SampType: | LCS | | TestCode: | EPA Method 8021B: Volatiles | | | | |
|----------------------------|-----------|-------|----------------|-------------|------|-----------|-----------------------------|------|--------------|------|--|
| Client ID: | LCSS | | Batch ID: | 24428 | | RunNo: | 33067 | | | | |
| Prep Date: | 3/24/2016 | | Analysis Date: | 3/25/2016 | | SeqNo: | 1015304 | | Units: mg/Kg | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Benzene | 0.91 | 0.025 | 1.000 | 0 | 90.6 | 75.3 | 123 | | | | |
| Toluene | 0.95 | 0.050 | 1.000 | 0 | 94.6 | 80 | 124 | | | | |
| Ethylbenzene | 0.99 | 0.050 | 1.000 | 0 | 99.0 | 82.8 | 121 | | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 99.4 | 83.9 | 122 | | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 114 | 80 | 120 | | | | |

| Sample ID | B19 | | SampType: | MBLK | | TestCode: | EPA Method 8021B: Volatiles | | | | |
|----------------------------|--------|-------|----------------|-------------|------|-----------|-----------------------------|------|--------------|------|--|
| Client ID: | PBS | | Batch ID: | B33070 | | RunNo: | 33070 | | | | |
| Prep Date: | | | Analysis Date: | 3/25/2016 | | SeqNo: | 1015317 | | Units: mg/Kg | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Benzene | ND | 0.025 | | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 108 | 80 | 120 | | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1603C65

RcptNo: 1

Received by/date: *[Signature]* 03/25/16

Logged By: Lindsay Mangin 3/25/2016 7:45:00 AM *[Signature]*

Completed By: Lindsay Mangin 3/25/2016 7:52:25 AM *[Signature]*

Reviewed By: *[Signature]* 03/25/16

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 1.3 | Good | Yes | | | |

CHAIN OF CUSTODY RECORD

|  APEX Office Location <u>Aztec, NM</u> | | Laboratory: <u>Hall</u> Address: <u>ABQ, NM</u> Contact: <u>A. Freeman</u> Phone: _____ PO/ISO #: _____ | | ANALYSIS REQUESTED <div style="transform: rotate(-90deg); transform-origin: center;"> 8021 BTEX 8015 TPH GAO/DRO </div> | | | | | Lab use only Due Date: _____ Temp. of coolers when received (C°): <u>13</u> | | | | |
|--|---------|--|---------|---|--------------------------------|----------------|--------------|-----|---|-----------|--------------|-----|------------------------------|
| | | Project Manager <u>K. Summers</u> Sampler's Name <u>Ranee Deechilly</u> Sampler's Signature <u>[Signature]</u> | | | | | | | Temp. of coolers when received (C°): <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td> </tr> </table> Page <u>1</u> of <u>1</u> | | 1 | 2 | 3 |
| 1 | 2 | 3 | 4 | 5 | | | | | | | | | |
| | | | | | | | | | | | | | |
| Proj. No. _____ Project Name <u>Federal E #3A</u> No/Type of Containers _____ | | | | | | | | | | | | | |
| Matrix | Date | Time | CO D | BA G | Identifying Marks of Sample(s) | Start Depth | End Depth | VOA | AG 1 L | 250 ml | Glass Jar | P/O | Lab Sample ID (Lab Use Only) |
| S | 3/24/16 | 1415 | | | C-1 | | | | | | | | 1603065-001 |
| S | | 1420 | | | C-2 | | | | | | | | -002 |
| S | | 1425 | | | C-3 | | | | | | | | -003 |
| S | | 1430 | | | C-4 | | | | | | | | -004 |
| S | | 1435 | | | C-5 | | | | | | | | -005 |
| S | | 1440 | | | C-6 | | | | | | | | -006 |
| S | | 1445 | | | C-7 | | | | | | | | -007 |
| S | ↓ | 1450 | | | C-8 | | | | | | | | -008 |
| NFS | | | | | | | | | | | | | |
| Turn around time <input type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input checked="" type="checkbox"/> 100% Rush <u>Same Day</u> | | | | | | | | | | | | | |
| Relinquished by (Signature) <u>[Signature]</u> Date: <u>3/24/16</u> Time: <u>1753</u> | | Received by (Signature) <u>[Signature]</u> Date: <u>3/24/16</u> Time: <u>1753</u> | | NOTES: Bill to Tom Long <u>Rush</u> MNAPE N24766 | | | | | | | | | |
| Relinquished by (Signature) <u>[Signature]</u> Date: <u>3/24/16</u> Time: <u>1837</u> | | Received by (Signature) <u>[Signature]</u> Date: <u>3/24/16</u> Time: <u>0745</u> | | | | | | | | | | | |
| Relinquished by (Signature) _____ Date: _____ Time: _____ | | Received by (Signature) _____ Date: _____ Time: _____ | | | | | | | | | | | |
| Relinquished by (Signature) _____ Date: _____ Time: _____ | | Received by (Signature) _____ Date: _____ Time: _____ | | | | | | | | | | | |

Matrix Container WW - Wastewater W - Water S - Soil SD - Solid L - Liquid A - Air Bag C - Charcoal tube SL - sludge O - Oil
 VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 06, 2016

Kyle Summers
APEX TITAN
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Federal E #3A

OrderNo.: 1604108

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/5/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: C-9

Project: Federal E #3A

Collection Date: 4/4/2016 12:45:00 PM

Lab ID: 1604108-001

Matrix: MEOH (SOIL)

Received Date: 4/5/2016 7:20:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | 11 | 9.9 | | mg/Kg | 1 | 4/6/2016 6:35:14 AM | 24618 |
| Surr: DNOP | 101 | 70-130 | | %Rec | 1 | 4/6/2016 6:35:14 AM | 24618 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 5.1 | | mg/Kg | 1 | 4/5/2016 11:08:06 AM | A33303 |
| Surr: BFB | 90.9 | 66.2-112 | | %Rec | 1 | 4/5/2016 11:08:06 AM | A33303 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 4/5/2016 11:08:06 AM | R33303 |
| Toluene | ND | 0.051 | | mg/Kg | 1 | 4/5/2016 11:08:06 AM | R33303 |
| Ethylbenzene | ND | 0.051 | | mg/Kg | 1 | 4/5/2016 11:08:06 AM | R33303 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 4/5/2016 11:08:06 AM | R33303 |
| Surr: 4-Bromofluorobenzene | 112 | 80-120 | | %Rec | 1 | 4/5/2016 11:08:06 AM | R33303 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: C-10
 Project: Federal E #3A Collection Date: 4/4/2016 12:55:00 PM
 Lab ID: 1604108-002 Matrix: MEOH (SOIL) Received Date: 4/5/2016 7:20:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 4/5/2016 11:54:40 AM | 24618 |
| Surr: DNOP | 99.1 | 70-130 | | %Rec | 1 | 4/5/2016 11:54:40 AM | 24618 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.5 | | mg/Kg | 1 | 4/5/2016 11:32:41 AM | A33303 |
| Surr: BFB | 90.8 | 66.2-112 | | %Rec | 1 | 4/5/2016 11:32:41 AM | A33303 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 4/5/2016 11:32:41 AM | R33303 |
| Toluene | ND | 0.045 | | mg/Kg | 1 | 4/5/2016 11:32:41 AM | R33303 |
| Ethylbenzene | ND | 0.045 | | mg/Kg | 1 | 4/5/2016 11:32:41 AM | R33303 |
| Xylenes, Total | ND | 0.090 | | mg/Kg | 1 | 4/5/2016 11:32:41 AM | R33303 |
| Surr: 4-Bromofluorobenzene | 114 | 80-120 | | %Rec | 1 | 4/5/2016 11:32:41 AM | R33303 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: C-11

Project: Federal E #3A

Collection Date: 4/4/2016 1:05:00 PM

Lab ID: 1604108-003

Matrix: MEOH (SOIL)

Received Date: 4/5/2016 7:20:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 4/5/2016 12:16:07 PM | 24618 |
| Surr: DNOP | 100 | 70-130 | | %Rec | 1 | 4/5/2016 12:16:07 PM | 24618 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.0 | | mg/Kg | 1 | 4/5/2016 11:57:19 AM | A33303 |
| Surr: BFB | 98.5 | 66.2-112 | | %Rec | 1 | 4/5/2016 11:57:19 AM | A33303 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.020 | | mg/Kg | 1 | 4/5/2016 11:57:19 AM | R33303 |
| Toluene | ND | 0.040 | | mg/Kg | 1 | 4/5/2016 11:57:19 AM | R33303 |
| Ethylbenzene | ND | 0.040 | | mg/Kg | 1 | 4/5/2016 11:57:19 AM | R33303 |
| Xylenes, Total | 0.082 | 0.080 | | mg/Kg | 1 | 4/5/2016 11:57:19 AM | R33303 |
| Surr: 4-Bromofluorobenzene | 115 | 80-120 | | %Rec | 1 | 4/5/2016 11:57:19 AM | R33303 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: C-12

Project: Federal E #3A

Collection Date: 4/4/2016 1:15:00 PM

Lab ID: 1604108-004

Matrix: MEOH (SOIL)

Received Date: 4/5/2016 7:20:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 4/5/2016 12:37:50 PM | 24618 |
| Surr: DNOP | 96.0 | 70-130 | | %Rec | 1 | 4/5/2016 12:37:50 PM | 24618 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.0 | | mg/Kg | 1 | 4/5/2016 12:22:04 PM | A33303 |
| Surr: BFB | 90.8 | 66.2-112 | | %Rec | 1 | 4/5/2016 12:22:04 PM | A33303 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.020 | | mg/Kg | 1 | 4/5/2016 12:22:04 PM | R33303 |
| Toluene | ND | 0.040 | | mg/Kg | 1 | 4/5/2016 12:22:04 PM | R33303 |
| Ethylbenzene | ND | 0.040 | | mg/Kg | 1 | 4/5/2016 12:22:04 PM | R33303 |
| Xylenes, Total | ND | 0.080 | | mg/Kg | 1 | 4/5/2016 12:22:04 PM | R33303 |
| Surr: 4-Bromofluorobenzene | 112 | 80-120 | | %Rec | 1 | 4/5/2016 12:22:04 PM | R33303 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
 Project: Federal E #3A
 Lab ID: 1604108-005

Client Sample ID: C-13
 Collection Date: 4/4/2016 1:25:00 PM
 Matrix: MEOH (SOIL) Received Date: 4/5/2016 7:20:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 4/5/2016 12:59:28 PM | 24618 |
| Surr: DNOP | 93.3 | 70-130 | | %Rec | 1 | 4/5/2016 12:59:28 PM | 24618 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 3.9 | | mg/Kg | 1 | 4/5/2016 12:46:49 PM | A33303 |
| Surr: BFB | 90.1 | 66.2-112 | | %Rec | 1 | 4/5/2016 12:46:49 PM | A33303 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.019 | | mg/Kg | 1 | 4/5/2016 12:46:49 PM | R33303 |
| Toluene | ND | 0.039 | | mg/Kg | 1 | 4/5/2016 12:46:49 PM | R33303 |
| Ethylbenzene | ND | 0.039 | | mg/Kg | 1 | 4/5/2016 12:46:49 PM | R33303 |
| Xylenes, Total | ND | 0.078 | | mg/Kg | 1 | 4/5/2016 12:46:49 PM | R33303 |
| Surr: 4-Bromofluorobenzene | 111 | 80-120 | | %Rec | 1 | 4/5/2016 12:46:49 PM | R33303 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: C-14

Project: Federal E #3A

Collection Date: 4/4/2016 1:35:00 PM

Lab ID: 1604108-006

Matrix: MEOH (SOIL)

Received Date: 4/5/2016 7:20:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | 10 | 9.4 | | mg/Kg | 1 | 4/6/2016 6:56:34 AM | 24618 |
| Surr: DNOP | 94.5 | 70-130 | | %Rec | 1 | 4/6/2016 6:56:34 AM | 24618 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | 26 | 7.7 | | mg/Kg | 2 | 4/5/2016 1:11:23 PM | A33303 |
| Surr: BFB | 129 | 66.2-112 | S | %Rec | 2 | 4/5/2016 1:11:23 PM | A33303 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | 0.18 | 0.038 | | mg/Kg | 2 | 4/5/2016 1:11:23 PM | R33303 |
| Toluene | 1.6 | 0.077 | | mg/Kg | 2 | 4/5/2016 1:11:23 PM | R33303 |
| Ethylbenzene | 0.34 | 0.077 | | mg/Kg | 2 | 4/5/2016 1:11:23 PM | R33303 |
| Xylenes, Total | 3.0 | 0.15 | | mg/Kg | 2 | 4/5/2016 1:11:23 PM | R33303 |
| Surr: 4-Bromofluorobenzene | 121 | 80-120 | S | %Rec | 2 | 4/5/2016 1:11:23 PM | R33303 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604108

06-Apr-16

Client: APEX TITAN

Project: Federal E #3A

| | | | | | | | | | | |
|-----------------------------|----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | MB-24618 | SampType: | MBLK | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 24618 | RunNo: | 33293 | | | | | |
| Prep Date: | 4/5/2016 | Analysis Date: | 4/5/2016 | SeqNo: | 1022945 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Surr: DNOP | 9.4 | | 10.00 | | 94.0 | 70 | 130 | | | |

| | | | | | | | | | | |
|-----------------------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | LCS-24618 | SampType: | LCS | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 24618 | RunNo: | 33293 | | | | | |
| Prep Date: | 4/5/2016 | Analysis Date: | 4/6/2016 | SeqNo: | 1024364 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 47 | 10 | 50.00 | 0 | 93.2 | 65.8 | 136 | | | |
| Surr: DNOP | 4.7 | | 5.000 | | 93.8 | 70 | 130 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604108

06-Apr-16

Client: APEX TITAN
Project: Federal E #3A

| | | | | | | | | | | |
|-------------------------------|------------------------|----------------|-----------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | 1604108-002A MS | SampType: | MS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | C-10 | Batch ID: | A33303 | RunNo: | 33303 | | | | | |
| Prep Date: | | Analysis Date: | 4/5/2016 | SeqNo: | 1023657 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21 | 4.5 | 22.60 | 0 | 92.3 | 59.3 | 143 | | | |
| Surr: BFB | 890 | | 904.2 | | 98.6 | 66.2 | 112 | | | |

| | | | | | | | | | | |
|-------------------------------|-------------------------|----------------|-----------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | 1604108-002A MSD | SampType: | MSD | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | C-10 | Batch ID: | A33303 | RunNo: | 33303 | | | | | |
| Prep Date: | | Analysis Date: | 4/5/2016 | SeqNo: | 1023658 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 20 | 4.5 | 22.60 | 0 | 88.9 | 59.3 | 143 | 3.80 | 20 | |
| Surr: BFB | 860 | | 904.2 | | 95.3 | 66.2 | 112 | 0 | 0 | |

| | | | | | | | | | | |
|-------------------------------|----------------------|----------------|-----------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | 2.5UG GRO LCS | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | A33303 | RunNo: | 33303 | | | | | |
| Prep Date: | | Analysis Date: | 4/5/2016 | SeqNo: | 1023659 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24 | 5.0 | 25.00 | 0 | 97.6 | 80 | 120 | | | |
| Surr: BFB | 1000 | | 1000 | | 102 | 66.2 | 112 | | | |

| | | | | | | | | | | |
|-------------------------------|---------------|----------------|-----------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | 5ML RB | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | A33303 | RunNo: | 33303 | | | | | |
| Prep Date: | | Analysis Date: | 4/5/2016 | SeqNo: | 1023660 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 910 | | 1000 | | 90.8 | 66.2 | 112 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604108

06-Apr-16

Client: APEX TITAN

Project: Federal E #3A

| Sample ID | 1604108-001A MS | | SampType: MS | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|----------------------------|-----------------|-------|-------------------------|---------------------------------------|--------------|----------|-----------|------|----------|------|
| Client ID: | C-9 | | Batch ID: R33303 | RunNo: 33303 | | | | | | |
| Prep Date: | | | Analysis Date: 4/5/2016 | SeqNo: 1023651 | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.96 | 0.025 | 1.013 | 0 | 95.2 | 71.5 | 122 | | | |
| Toluene | 1.0 | 0.051 | 1.013 | 0.01145 | 98.2 | 71.2 | 123 | | | |
| Ethylbenzene | 1.0 | 0.051 | 1.013 | 0.01064 | 98.8 | 75.2 | 130 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.040 | 0.04924 | 99.7 | 72.4 | 131 | | | |
| Surr: 4-Bromofluorobenzene | 0.91 | | 1.013 | | 89.4 | 80 | 120 | | | |

| Sample ID | 1604108-001A MSD | | SampType: MSD | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|----------------------------|------------------|-------|-------------------------|---------------------------------------|--------------|----------|-----------|------|----------|------|
| Client ID: | C-9 | | Batch ID: R33303 | RunNo: 33303 | | | | | | |
| Prep Date: | | | Analysis Date: 4/5/2016 | SeqNo: 1023652 | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.93 | 0.025 | 1.013 | 0 | 91.7 | 71.5 | 122 | 3.69 | 20 | |
| Toluene | 0.98 | 0.051 | 1.013 | 0.01145 | 95.8 | 71.2 | 123 | 2.41 | 20 | |
| Ethylbenzene | 0.98 | 0.051 | 1.013 | 0.01064 | 95.6 | 75.2 | 130 | 3.25 | 20 | |
| Xylenes, Total | 3.0 | 0.10 | 3.040 | 0.04924 | 96.4 | 72.4 | 131 | 3.33 | 20 | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.013 | | 113 | 80 | 120 | 0 | 0 | |

| Sample ID | 100NG BTEX LCS | | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|----------------------------|----------------|-------|-------------------------|---------------------------------------|--------------|----------|-----------|------|----------|------|
| Client ID: | LCSS | | Batch ID: R33303 | RunNo: 33303 | | | | | | |
| Prep Date: | | | Analysis Date: 4/5/2016 | SeqNo: 1023653 | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.98 | 0.025 | 1.000 | 0 | 97.8 | 75.3 | 123 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 100 | 80 | 124 | | | |
| Ethylbenzene | 0.99 | 0.050 | 1.000 | 0 | 98.9 | 82.8 | 121 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 101 | 83.9 | 122 | | | |
| Surr: 4-Bromofluorobenzene | 1.2 | | 1.000 | | 116 | 80 | 120 | | | |

| Sample ID | 5ML RB | | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|----------------------------|--------|-------|-------------------------|---------------------------------------|--------------|----------|-----------|------|----------|------|
| Client ID: | PBS | | Batch ID: R33303 | RunNo: 33303 | | | | | | |
| Prep Date: | | | Analysis Date: 4/5/2016 | SeqNo: 1023654 | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 107 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87109
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **APEX AZTEC**

Work Order Number: **1604108**

RcptNo: 1

Received by/date:

[Signature]

04/05/16

Logged By: **Lindsay Mangin**

4/5/2016 7:20:00 AM

[Signature]

Completed By: **Lindsay Mangin**

4/5/2016 7:49:14 AM

[Signature]

Reviewed By: *AM 04/05/16*

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? Yes No # of preserved bottles checked for pH: (<2 or >12 unless noted)
- 13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted?
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No Checked by:

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 3.0 | Good | Yes | | | |

CHAIN OF CUSTODY RECORD

APEX
 Office Location Aztec, NM
 Project Manager K. Summers

Laboratory: Halt Environmental
 Address: ABO, NM
 Contact: A. Freeman
 PO/SO #:

ANALYSIS REQUESTED
 8021 BTEX
 8015 TPH (GRO/DR)

Lab use only
 Due Date:
 Temp. of coolers when received (C°): 3.0
 1 2 3 4 5
 Page 1 of 1

Sampler's Name Ranee Deechilly Sampler's Signature Ranee Deechilly

Proj. No. Project Name Federal E#3A No/Type of Containers

| Matrix | Date | Time | Comp | Grab | Identifying Marks of Sample(s) | Start Depth | End Depth | VOA | AG 1L | 250 ml | Glass Jar | P/O | Lab Sample ID (Lab Use Only) |
|--------|--------|------|------|------|--------------------------------|-------------|-----------|-----|-------|--------|-----------|-----|------------------------------|
| S | 4/4/16 | 1245 | | | C-9 | | | | | | | | 1604108-001 |
| S | | 1255 | | | C-10 | | | | | | | | -002 |
| S | | 1305 | | | C-11 | | | | | | | | -003 |
| S | | 1315 | | | C-12 | | | | | | | | -004 |
| S | | 1325 | | | C-13 | | | | | | | | -005 |
| S | ✓ | 1335 | | | C-14 | | | | | | | | -006 |

Turn around time Normal 25% Rush 50% Rush 100% Rush

| | | | |
|---|---------------------------------------|---|---|
| Relinquished by (Signature) <u>Ranee Deechilly</u> | Date: <u>4/4/16</u> Time: <u>1618</u> | Received by (Signature) <u>Christine Walker</u> | Date: <u>4/4/16</u> Time: <u>1618</u> |
| Relinquished by (Signature) <u>Christine Walker</u> | Date: <u>4/4/16</u> Time: <u>1820</u> | Received by (Signature) <u>[Signature]</u> | Date: <u>04/05/16</u> Time: <u>0720</u> |
| Relinquished by (Signature) | Date: Time: | Received by (Signature) | Date: Time: |
| Relinquished by (Signature) | Date: Time: | Received by (Signature) | Date: Time: |

NOTES:
 Bill to Tom Long Rush
 Non APE N24766

Matrix Container WW - Wastewater VOA - 40 ml vial W - Water A/G - Amber / Or Glass 1 Liter S - Soil SD - Solid L - Liquid A - Air Bag 250 ml - Glass wide mouth C - Charcoal tube P/O - Plastic or other SL - sludge O - Oil