

3R-1012

**Release Report/ General
Correspondence**

Enterprise RA

Date: Jan-Mar 2015

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

JAN 02 2015

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

Form C-141
Revised August 8, 2011

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 K-36; San Juan 28-7 Unit #3 | Facility Type: Natural Gas Gathering Line Valve |
| Surface Owner: BLM | Mineral Owner: BLM |
| API No. | |

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|------------|
| N | 6 | 27N | 7W | 1255 | South | 1367 | West | Rio Arriba |

Latitude 36.599037 Longitude -107.619455

NATURE OF RELEASE

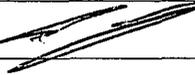
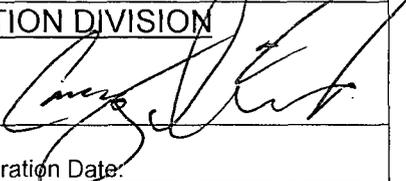
| | | |
|--|---|--|
| Type of Release: Natural Gas Liquids | Volume of Release 3-5 BBLs | Volume Recovered: NONE |
| Source of Release: Leaking Valve | Date and Hour of Occurrence: 12/16/2014 @ 4:40 p.m. | Date and Hour of Discovery: 12/16/2014 @ 5:40 p.m. |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour. | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action: On December 16, 2014, a third party reported a valve leaf on the Lateral K-36, San Juan 28-7 Unit #3 well tie. Enterprise technicians confirmed a leak. The line was isolated and de-pressurized and lock out tag out was applied. Repairs and remediation are currently being scheduled. A third party environmental contractor will oversee excavation activities and collect closure samples during repair activities.

Describe Area Affected and Cleanup Action: On December 16, 2014, a third party reported a valve leaf on the Lateral K-36, San Juan 28-7 Unit #3 well tie. Enterprise technicians confirmed a leak. The line was isolated and de-pressurized and lock out tag out was applied. Repairs and remediation are currently being scheduled. A third party environmental contractor will oversee excavation activities and collect closure samples during repair activities. A "final" c-141 will be submitted upon receipt of the third party environmental contractor corrective action report.

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: Ivan W. Zirbes | Approved by Environmental Specialist:  | |
| Title: Sr. Director, Environmental | Approval Date: 2/6/15 | Expiration Date: |
| E-mail Address: snolan@eprod.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 12 30-14 | Phone: (713)381-6595 | |

* Attach Additional Sheets If Necessary

#NCS 1503738901

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State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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MAR 09 2015

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

Form C-141
Revised August 8, 2011

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 K-7 | Facility Type: Natural Gas Gathering Pipeline |
| Surface Owner: BLM | Mineral Owner: BLM |
| API No. | |

LOCATION OF RELEASE

| | | | | | | | | |
|-------------------------|----------------------|------------------------|--------------------|-----------------------------|-----------------------------|------------------------------|---------------------------|-----------------------------|
| Unit Letter N | Section 27 | Township 26N | Range 7W | Feet from the 225 | North South Line | Feet from the 2086 | East West Line | County Rio Arriba |
|-------------------------|----------------------|------------------------|--------------------|-----------------------------|-----------------------------|------------------------------|---------------------------|-----------------------------|

Latitude 36.46422 Longitude -107.56505

NATURE OF RELEASE

| | | |
|--|--|--|
| Type of Release: Natural Gas and Natural Gas Liquids | Volume of Release: Unknown | Volume Recovered: None |
| Source of Release: Internal Corrosion | Date and Hour of Occurrence: 2/18/2015 @ 3:12 p.m. | Date and Hour of Discovery: 2/18/2015 @ 7:00 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 – Cory Smith – NMOCD; Shari Ketcham - BLM | |
| By Whom? Thomas Long | Date and | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action: On February 18, 2015, Enterprise discovered a leak on the Lateral K-7 pipeline. The pipeline was isolated, blown down, locked out and tagged out. An area of staining of approximately five feet in diameter was observed on the ground surface. Pipeline repairs began February 26, 2015.

Describe Area Affected and Cleanup Action: On February 18, 2015, Enterprise discovered a leak on the Lateral K-7 pipeline. An area of staining of approximately five feet in diameter was observed on the ground surface. A third party environmental contractor is managing excavation activities and has collected closure samples. A "Final" C-141 will be submitted upon receipt of the third party environmental contractor corrective action report.

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>3/13/15</u> | Expiration Date: |
| E-mail Address: jefields@eprod.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: <u>3/3/2015</u> Phone: (713)381-6684 | | |

* Attach Additional Sheets If Necessary

#NCS 150 72 52 901

①

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NMOCD

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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 K-31 (Two Release Sites) | Facility Type: Natural Gas Gathering Line |

| | | |
|----------------------|--------------------|---------|
| Surface Owner: State | Mineral Owner: BLM | API No. |
|----------------------|--------------------|---------|

LOCATION OF RELEASE

| | | | | | | | | |
|--------------------|---------------|-----------------|-------------|------------------|---------------------|------------------|-------------------|----------------------|
| Unit Letter D/N | Section 16 | Township 25N | Range 6W | Feet from the | North/South Line | Feet from the | East/West Line | County Rio Arriba |
|--------------------|---------------|-----------------|-------------|------------------|---------------------|------------------|-------------------|----------------------|

Latitude 36.404829 Longitude 107.478125

Latitude 36.39373 Longitude 107.47519

NATURE OF RELEASE

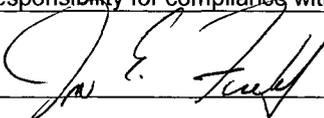
| | | |
|--|--|---|
| Type of Release: Natural Gas | Volume of Release: 3-5 BBLS fluids | Volume Recovered: Unknown |
| Source of Release: Suspected internal corrosion | Date and Hour of Occurrence: 2/19/2015 @ 3:00 p.m. | Date and Hour of Discovery: 2/19/2015 @ 5:00 p.m. |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour: | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action: On February 19, 2015, Enterprise discovered two leaks on the Lateral K-31 pipeline. The GPS locations for the leaks are 36.404829, -107.478125 and 36.39373, -107.47519. The pipeline was isolated, blown down, locked out and tagged out. No surface impacts were observed. Repairs and remediation began March 2, 2015.

Describe Area Affected and Cleanup Action Taken.*: No surface impacts were observed. Impacts to the subsurface were confirmed on 3/4/2015. A "Final" C-141 will be submitted upon receipt of the third party environmental contractor corrective action report.

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: 3/13/15 | Expiration Date: |
| E-mail Address: jefields@eprod.com | Conditions of Approval: | |
| Date: 3-5-2015 Phone: (713)381-6684 | Attached <input type="checkbox"/> | |

* Attach Additional Sheets If Necessary

#NCS 150 72 52576

①

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy Minerals and Natural
Resources

Oil Conservation Division
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FEB 18 2015

NMOCD

DISTRICT III

Form C-141
Revised August 8, 2011

Copy to appropriate District Office
in accordance with 19.15.29 NMAC.

FEB 18 2015

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: San Juan 29-5 #214 | Facility Type: Natural Gas Gather Pipeline |

| | | |
|------------------------|--------------------|---------|
| Surface Owner: Private | Mineral Owner: BLM | API No. |
|------------------------|--------------------|---------|

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|------------|
| G | 27 | 29N | 10W | 1401 | North | 1350 | East | Rio Arriba |

Latitude 36.699905 Longitude -107.340519

NATURE OF RELEASE

| | | |
|--|---|---|
| Type of Release: Natural Gas and Natural Gas Liquids | Volume of Release: Unknown | Volume Recovered: Unknown |
| Source of Release: Internal Corrosion | Date and Hour of Occurrence: 1/26/2015 @ 1:45 p.m. | Date and Hour of Discovery: 1/26/2015 @ 3:30 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 - Cory Smith - NMOCD | |
| By Whom? Thomas Long | Date and Hour 2/9/2015 @ 8:20 a.m. | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action: On January 26, 2015, a leak was discovered on the SJ 29-5 #214 well location approximately two feet from the downstream end of the meter run. An Enterprise gathering technician was dispatched and verified the leak. The single well tie line was isolated, de-pressured and lock out tag out was applied. A third party environmental contractor will oversee excavation activities and collect closure samples.

Describe Area Affected and Cleanup Action: On January 26, 2015, a leak was discovered on the SJ 29-5 #214 well location approximately two feet from the downstream end of the meter run. An Enterprise gathering technician was dispatched and verified the leak. The single well tie line was isolated, de-pressured and lock out tag out was applied. A third party environmental contractor will oversee excavation activities and collect closure samples. A third party environmental contractor will oversee excavation activities and collect closure samples. A "Final" C-141 will be submitted upon receipt of the third party environmental contractor corrective action report.

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 Fields | Approved by Environmental Specialist: <i>[Signature]</i> | |
| Title: Director, Environmental | Approval Date: 3/13/15 | Expiration Date: |
| E-mail Address: jefields@eprod.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 2-10-2015 | Phone: (713)381-6684 | |

* Attach Additional Sheets If Necessary

#NCS 150 72 49522

①

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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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

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FEB 04 2015

NMOCD

Form C-141
Revised August 8, 2011

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 K-31 Release Site | Facility Type: Natural Gas Gathering Line |

| | | |
|----------------------------|--------------------|---------|
| Surface Owner: State of NM | Mineral Owner: BLM | API No. |
|----------------------------|--------------------|---------|

LOCATION OF RELEASE

| | | | | | | | | |
|------------------|---------------|-----------------|-------------|--------------------------|---------------------|--------------------------|-------------------|----------------------|
| Unit Letter D | Section 16 | Township 25N | Range 6W | Feet from the 1293 | North/South Line | Feet from the 1092 | East/West Line | County Rio Arriba |
|------------------|---------------|-----------------|-------------|--------------------------|---------------------|--------------------------|-------------------|----------------------|

Latitude 36.403565 Longitude -107.477592

NATURE OF RELEASE

| | | |
|--|--|---|
| Type of Release: Natural Gas and Natural Gas Liquids | Volume of Release: Unknown | Volume Recovered: Unknown |
| Source of Release: Internal Corrosion | Date and Hour of Occurrence: 1/19/2015 @ 11:30 a.m. | Date and Hour of Discovery: 1/19/2015 @ 12:30 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 - Cory Smith, NMOCD | |
| By Whom? Thomas Long | Date and Hour 1/26/2015 @ 7:19 a.m. | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action: On January 19, 2015, Enterprise technicians confirmed a leak on Lateral K-31 pipeline. The pipeline was isolated, de-pressurized and lock out tag out was applied. Repairs and remediation began on January 26, 2015. A third party environmental contractor oversaw excavation activities and collected closure samples.

Describe Area Affected and Cleanup Action: On January 19, 2015, Enterprise technicians confirmed a leak on Lateral K-31 pipeline. The pipeline was isolated, de-pressurized and lock out tag out was applied. Repairs and remediation began on January 26, 2015. A third party environmental contractor oversaw excavation activities and collected closure samples. A "Final" C-141 will be submitted upon receipt of the third party environmental contractor corrective action report.

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 Fields | Approved by Environmental Specialist: | |
| Title: Director, Environmental | Approval Date: 3/13/15 | Expiration Date: |
| E-mail Address: jefields@eprod.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 1/26/2015 | Phone: (713)381-6684 | |

* Attach Additional Sheets If Necessary

#NCS 1507248889

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District I
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Form C-141
Revised August 8, 2011

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

FEB 04 2015

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | |
|---|---|
| Name of Company: Mid-American Pipeline | Contact: Thomas Long |
| Address: 614 Reilly Ave, Farmington, NM 87401 | Telephone No. 505-599-2286 |
| Facility Name: Lybrook Station | Facility Type: NGL Pumping Station |
| Surface Owner: Private | Mineral Owner: BLM |
| API No. | |

LOCATION OF RELEASE

| | | | | | | | | |
|-------------------------|----------------------|------------------------|--------------------|--------------------------------|---------------------|---------------------------------|-------------------|-----------------------------|
| Unit Letter C | Section 14 | Township 23N | Range 7W | Feet from the 123 | North/South Line | Feet from the 2202 | East/West Line | County Rio Arriba |
|-------------------------|----------------------|------------------------|--------------------|--------------------------------|---------------------|---------------------------------|-------------------|-----------------------------|

Latitude 36.232608 Longitude -107.546006

NATURE OF RELEASE

| | | |
|--|---|--|
| Type of Release: Natural Gas Liquids | Volume of Release 23.74 BBLs | Volume Recovered: None |
| Source of Release: Piping Freeze | Date and Hour of Occurrence: 1/19/2014 @ 11:30 a.m. | Date and Hour of Discovery: 1/19/2014 @ 12:30 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 – Cory Smith, NMOCD, NRC Case # 1106616 | |
| By Whom? Thomas Long | Date and Hour 1/26/2015 @ 7:19 a.m. | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action: On January 19, 2015, technicians were completing a station check and discovered a gas odor in the control building. The technicians began monitoring the conduit raceways and conduit floor pits. High LEL readings were detected in the conduit. Hydro-excavating of potholes at the facility were initiated to determine the source of the high LELs. The hydro-excavating was directed to the area of highest LEL readings. Hydro-excavating and mechanical excavating determined the leak was on the NGL piping to the main suction header. The piping was isolated, depressurized and lock out tag out was applied. A third party environmental contractor will oversee excavation activities and collect closure samples.

Describe Area Affected and Cleanup Action: On January 19, 2015, technicians were completing a station check and discovered a gas odor in the control building. The technicians began monitoring the conduit raceways and conduit floor pits. High LEL readings were detected in the conduit. Hydro-excavating of potholes at the facility were initiated to determine the source of the high LELs. The hydro-excavating was directed to the area of highest LEL readings. Hydro-excavating and mechanical excavating determined the leak was on the NGL piping to the main suction header. The piping was isolated, depressurized and lock out tag out was applied. A third party environmental contractor will oversee excavation activities and collect closure samples. A "Final" C-141 will be submitted upon receipt of the third party environmental contractor corrective action report.

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| | | |
|------------------------------------|---------------------------------------|-----------------------------------|
| Signature: | OIL CONSERVATION DIVISION | |
| Printed Name: Jon Fields | Approved by Environmental Specialist: | |
| Title: Director, Environmental | Approval Date: 3/13/15 | Expiration Date: |
| E-mail Address: jefields@eprod.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 1/25/2015 | Phone: (713)381-6684 | |

* Attach Additional Sheets If Necessary

#NCS 150 72 49615

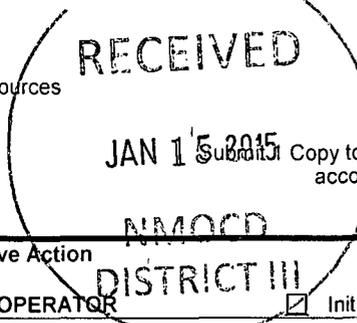
①

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Form C-141
Revised August 8, 2011



Submit 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 K-31 Six Release Sites | Facility Type: Natural Gas Gathering Line |

| | | |
|--------------------------|--------------------|---------|
| Surface Owner: BLM/State | Mineral Owner: BLM | API No. |
|--------------------------|--------------------|---------|

LOCATION OF RELEASE

| Unit Letter SW/SW | Section 9/16 | Township 25N | Range 6W | Feet from the | North/South Line | Feet from the | East/West Line | County Rio Arriba |
|-------------------|--------------|--------------|----------|---------------|------------------|---------------|----------------|-------------------|
|-------------------|--------------|--------------|----------|---------------|------------------|---------------|----------------|-------------------|

| | |
|-------------------|----------------------|
| Latitude 36.3986 | Longitude -107.4765 |
| Latitude 36.3979 | Longitude -107.4763 |
| Latitude 36.40734 | Longitude -107.47930 |
| Latitude 36.39985 | Longitude -107.47667 |
| Latitude 36.39557 | Longitude -107.47572 |
| Latitude 36.39408 | Longitude -107.47519 |

NATURE OF RELEASE

| | | |
|--|---|---|
| Type of Release: Natural Gas and Natural Gas Liquids | Volume of Release 752 MCF gas Loss; Estimated 20-30 bbls of fluids | Volume Recovered: NONE |
| Source of Release: Internal Corrosion | Date and Hour of Occurrence: 8/22/2014 @ 1:00 p.m. | Date and Hour of Discovery: 8/22/2014 @ 2:00 p.m. |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom? NMOCD - Cory Smith onsite when discovered; Courtesy notification to BLM - Shari Ketcham on 9/17/2014 | |
| By Whom? | Date and Hour | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action: On August 22, 2014, a third party reported possible line leaks on an Enterprise Right of Way. Technicians were dispatched to the locations and the two leaks were confirmed. The line was isolated and de-pressurized and lock out tag out was applied. On September 8, 2014, Enterprise Products applied pressure to the Lateral K-31 pipeline and surveyed the pipeline right-of-way to determine if there were additional sections of the pipeline that were compromised. Four additional leak locations were identified. Repairs and remediation for all six release locations were completed on October 8, 2014. Approximately 374 cubic yards of hydrocarbon impacted soil was excavated and transported to an approved NMOCD land farm facility. Additionally, approximately 1635 bbls of water was removed from the excavations and transported to an approved NMOCD facility for proper disposal.

Describe Area Affected and Cleanup Action Taken: On August 22, 2014, a third party reported possible line leaks on an Enterprise Right of Way. Technicians were dispatched to the locations and the two leaks were confirmed. The line was isolated and de-pressurized and lock out tag out was applied. On September 8, 2014, Enterprise Products applied pressure to the Lateral K-31 pipeline and surveyed the pipeline right-of-way to determine if there were additional sections of the pipeline that were compromised. Four additional leak locations were identified. Repairs and remediation for all six release locations were completed on October 8, 2014. A third party environmental contractor oversaw excavation activities and collected closure samples during repair activities. Approximately 374 cubic yards of hydrocarbon impacted soil was excavated and transported to an approved NMOCD land farm facility. Additionally, approximately 1635 bbls of water was removed from the excavations and transported to an approved NMOCD facility for proper disposal. Two third party corrective action reports are included with this Final "C-141".

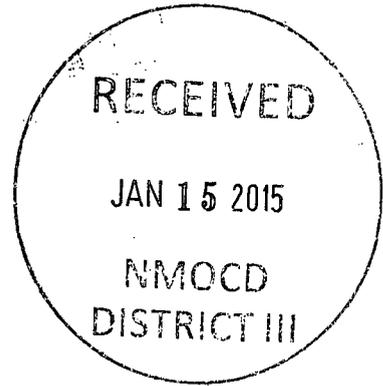
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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 Fields | Approved by Environmental Specialist: <i>Cory Smith</i> | |
| Title: Director, Environmental | Approval Date: 3/23/15 | Expiration Date: |
| E-mail Address: jefields@eprod.com | Conditions of Approval: *Note Deviated From Rain Events Not Groundwater. | Attached <input type="checkbox"/> |
| Date: 1-8-2015 | Phone: (713)381-6684 | |

* Attach Additional Sheets If Necessary

H/MS 150 82 32107

157



CORRECTIVE ACTION REPORT

1st Report

Property:

**Lateral K-31 Truby #2 Pipeline Releases
SW 1/4, S16 T25N R6W
Rio Arriba County, New Mexico**

November 17, 2014
Apex Project No. 7030414G031

Prepared for:

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

Prepared by:

Heather M. Woods

Heather M. Woods, P.G.
Senior Project Manager

Liz Scaggs

Elizabeth Scaggs, P.G.
Senior Program Manager

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CORRECTIVE ACTION REPORT

Lateral K-31 Truby #2 Pipeline Releases

SW 1/4, S16 T25N R6W
Rio Arriba County, New Mexico

Apex Project No. 7030414G031

1.0 INTRODUCTION

1.1 Site Description & Background

The Lateral K-31 Truby #2 Pipeline Release Site is comprised of two (2) pipeline repair locations in close proximity to each other within the Enterprise Field Services LLC (Enterprise) pipeline right-of-way (ROW) in the southwest (SW) ¼ of Section 16 in Township 25 North and Range 6 West in rural Rio Arriba County, New Mexico (North Release 36.3986N, 107.4765W; South Release 36.3979N, 107.4763W), referred to hereinafter as the "Site" or "subject Site". The Site is located on land owned by the State of New Mexico, and consists of native vegetation rangeland periodically interrupted with oil and gas production and gathering facilities, including the Enterprise natural gas gathering pipeline which traverses the area from approximately north to south.

On September 3, 2014, Enterprise shut in the Lateral K-31 pipeline and initiated excavation activities at the Site in an effort to locate and repair two (2) subsurface leaks. The leaks were subsequently identified and repaired. An unknown quantity of dry natural gas and pipeline liquids were released from the pipeline as a result of internal corrosion at each release location. The leaks were identified by the instrument detection of natural gas at the ground surface.

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 actions 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* 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 TITAN, Inc. (Apex) utilized the general site characteristics obtained during the completion of corrective action activities and information available from the Office of the New Mexico Office of the State Engineer 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 maximum Total Ranking Score of "30". This ranking is based on the following:

- Depth to groundwater is approximately 15 feet below ground surface (bgs) as observed in nearby groundwater monitoring wells and elevation differential between the Site and Largo Wash, resulting in a depth to groundwater ranking of "20". No nearby water wells were identified on the Office of the State Engineer (OSE) website database.
- 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.
- The Site is located approximately 600 feet west of Largo Wash. Based on this proximity, a ranking for distance to surface water was assigned at "10".

3.0 RESPONSE ACTIONS

3.1 Soil Excavation Activities

On September 3, 2014, Enterprise shut in the Lateral K-31 pipeline and initiated excavation activities at the Site in an effort to locate and repair two subsurface leaks. The leaks were subsequently identified and repaired. An unknown quantity of dry natural gas and pipeline liquids were released from the pipeline as a result of internal corrosion at each release location. The leaks were identified by the instrument detection of natural gas at the ground surface. During the corrective action activities, Energy Maintenance Services provided heavy equipment and labor support, and Kyle Summers, an Apex environmental professional, provided environmental support.

The surface expression of North Excavation measured approximately 25 feet long by 9 feet wide and 4.5 feet in depth and the South Excavation measured approximately 15 feet long by 6 feet wide and 3.5 feet in depth. The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated silty and clayey sands.

A total volume of approximately 48 cubic yards of hydrocarbon affected soils were transported to the Envirotech Landfarm in Hilltop, New Mexico for disposal/remediation. The majority of the spoils removed from the southern excavation were unaffected by hydrocarbon impact and were sampled for re-use as backfill material. The excavations were subsequently backfilled with clean imported fill and remaining stockpiled soils, and the Site was contoured to the surrounding grade. The executed C-138 form is provided in Appendix B.

Figures 3A and 3B are site maps indicating the approximate locations of the excavated areas 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 Site 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 five (5) final confirmation samples (S-1 through S-5) from the North Excavation and five (5) final confirmation samples (C-1 through C-5) from the South Excavation for laboratory analysis. Additionally, one (1) composite sample (SP-1) was collected from remaining stockpiled soils near the South Excavation to determine the potential to reuse these soils as excavation backfill. Figures 3A and 3B depict the approximate locations of the excavated areas and show 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 labels, and placed on ice in a cooler, which was secured with a custody seal. The sample cooler and completed chain-of-custody form were relinquished to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico, for rush analysis.

3.3 Laboratory Analytical Methods

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

Laboratory results are summarized in Table 1, included in Appendix D. The executed chain-of-custody forms 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 New Mexico Administrative Code 19.15.29 *Remediation Plan*. 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 reporting limits associated with the final confirmation samples (S-1 through S-5 and C-1 through C-5) collected from the excavated areas and stockpile sample (SP-1) to the OCD *Remediation Action Levels* (RALs) for sites having a total ranking score of "30".

- The laboratory analyses of confirmation samples collected from soils remaining in place do not indicate benzene concentrations above the laboratory reporting limits, which are below the OCD *Remediation Action Level*.

- The laboratory analyses of the confirmation samples collected from soils remaining in place indicate total BTEX concentrations ranging from below the laboratory reporting limits to 1.91 mg/kg, which are below the *OCD Remediation Action Levels*.
- The laboratory analyses of the confirmation samples collected from soils remaining in place indicate combined TPH GRO/DRO concentrations ranging from below the laboratory reporting limits to 24.1 mg/kg, which are below the *OCD Remediation Action Levels* for a Site ranking of "30".

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

5.0 FINDINGS AND RECOMMENDATIONS

The Lateral K-31 Truby #2 Pipeline Release Site is comprised of two (2) pipeline repair locations in close proximity to each other within the Enterprise pipeline ROW in the SW ¼ of Section 16 in Township 25 North and Range 6 West in rural Rio Arriba County, New Mexico (North Release 36.3986N, 107.4765W; South Release 36.3979N, 107.4763W). The Site is located on land owned by the State of New Mexico, and consists of native vegetation rangeland periodically interrupted with oil and gas production and gathering facilities, including the Enterprise natural gas gathering pipeline which traverses the area from approximately north to south.

On September 3, 2014, Enterprise shut in the Lateral K-31 pipeline and initiated excavation activities at the Site in an effort to locate and repair two subsurface leaks. The leaks were subsequently identified and repaired. An unknown quantity of dry natural gas and pipeline liquids were released from the pipeline as a result of internal corrosion at each release location. The leaks were identified by the instrument detection of natural gas at the ground surface.

- 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 and clayey sands with clay lenses.
- The surface expression of North Excavation measured approximately 25 feet long by 9 feet wide and 4.5 feet in depth and the South Excavation measured approximately 15 feet long by 6 feet wide and 3.5 feet in depth.
- Prior to backfilling, five (5) final confirmation samples were collected from each of the resulting excavations for laboratory analysis. Additionally, one (1) composite sample was collected from stockpiled soils to determine the potential to reuse these soils as excavation backfill. Based on analytical results, soils remaining in place do not exhibit COC concentrations above the *OCD Remediation Action Levels* for a Site ranking of "30".
- A total of approximately 48 cubic yards of hydrocarbon affected soils were transported to the Envirotech Landfarm in Hilltop, New Mexico for disposal/remediation. The excavations were backfilled with clean imported fill and unaffected stockpiled soils, and The Site was contoured to the surrounding grade.

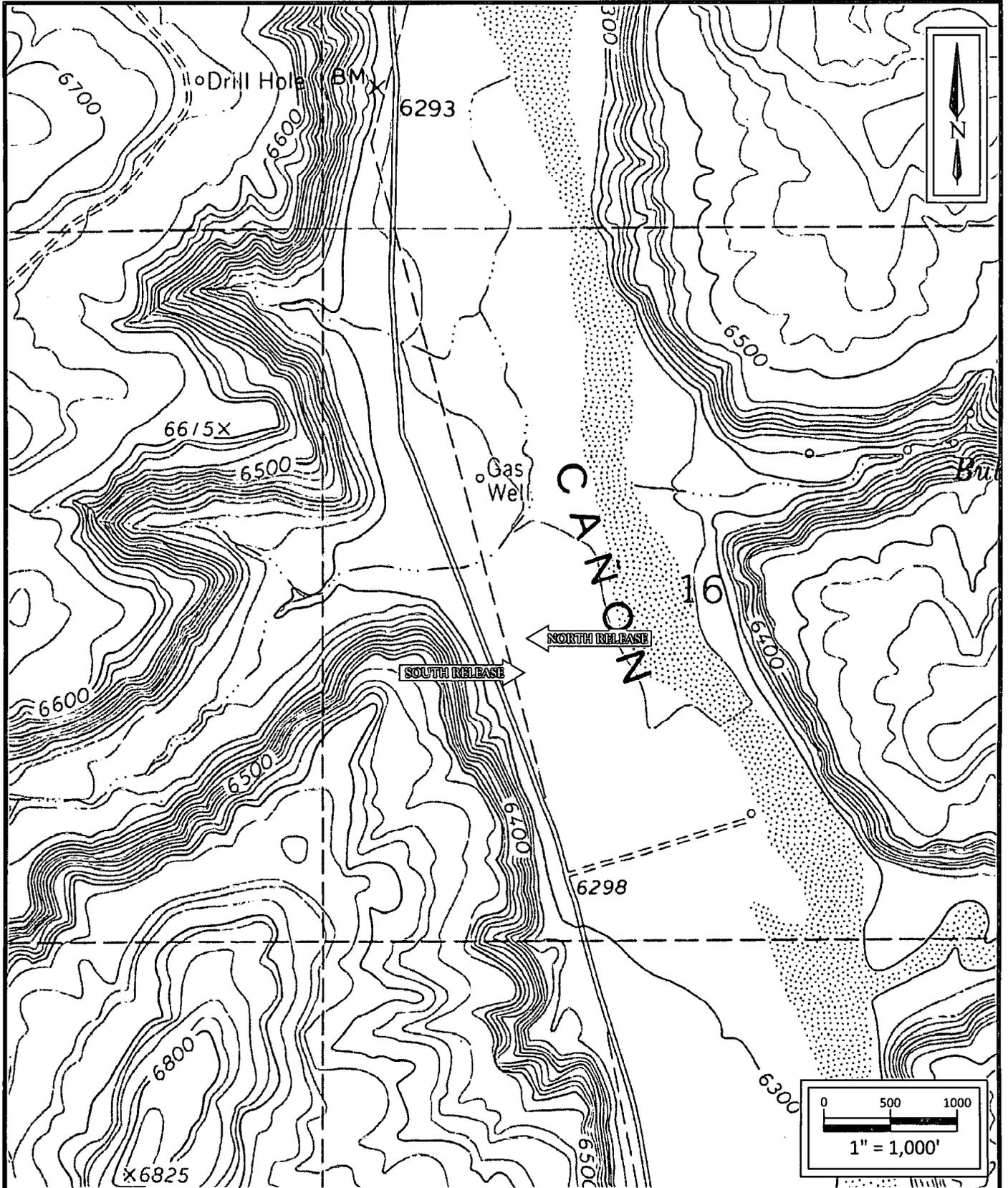
Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

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.



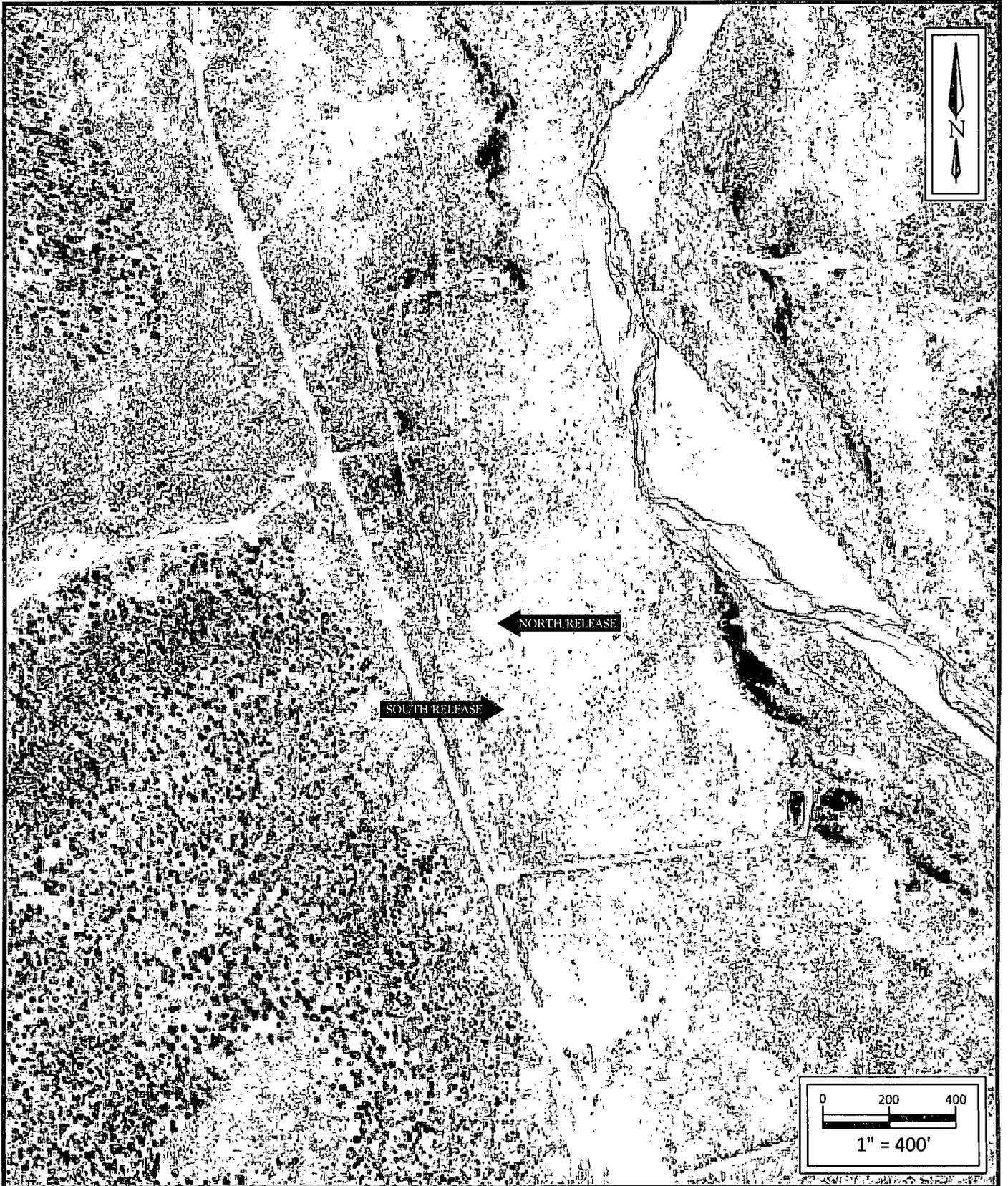
Lateral K-31 Truby #2 Pipeline Releases
 SW¼ S16 T25N R6W
 Rural Rio Arriba County, NM
 36.3986N, 107.4765W North Release
 36.3979N, 107.4763W South Release

Project No. 7030414G031



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 1
Topographic Map
 Gonzales Mesa, NM Quadrangle
 1963



Lateral K-31 Truby #2 Pipeline Releases

SW $\frac{1}{4}$ S16 T25N R6W
 Rural Rio Arriba County, NM
 36.3986N, 107.4765W North Release
 36.3979N, 107.4763W South Release

Project No. 7030414G031



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FIGURE 2
Site Vicinity Map
 2013 Aerial Photograph

S5
9/3/2014

| | |
|---------------|-------|
| Benzene: | <0.05 |
| Toluene: | <0.05 |
| Ethylbenzene: | <0.05 |
| Xylenes: | <0.10 |
| Total BTEX: | ND |
| GRO: | <4.98 |
| DRO: | <29.9 |



S1
9/3/2014

| | |
|---------------|-------|
| Benzene: | <0.05 |
| Toluene: | <0.05 |
| Ethylbenzene: | <0.05 |
| Xylenes: | <0.10 |
| Total BTEX: | ND |
| GRO: | <4.99 |
| DRO: | <30.0 |

S3
9/3/2014

| | |
|---------------|-------|
| Benzene: | <0.05 |
| Toluene: | <0.05 |
| Ethylbenzene: | <0.05 |
| Xylenes: | <0.10 |
| Total BTEX: | ND |
| GRO: | <4.99 |
| DRO: | <30.0 |

S2
9/3/2014

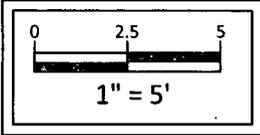
| | |
|---------------|-------|
| Benzene: | <0.05 |
| Toluene: | 0.14 |
| Ethylbenzene: | <0.05 |
| Xylenes: | 1.77 |
| Total BTEX: | 1.91 |
| GRO: | 24.1 |
| DRO: | <30.0 |

S4
9/3/2014

| | |
|---------------|-------|
| Benzene: | <0.05 |
| Toluene: | <0.05 |
| Ethylbenzene: | <0.05 |
| Xylenes: | <0.10 |
| Total BTEX: | ND |
| GRO: | <5.00 |
| DRO: | <30.0 |

LEGEND:

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



NOTE: ALL VALUES ARE REPORTED IN mg/kg

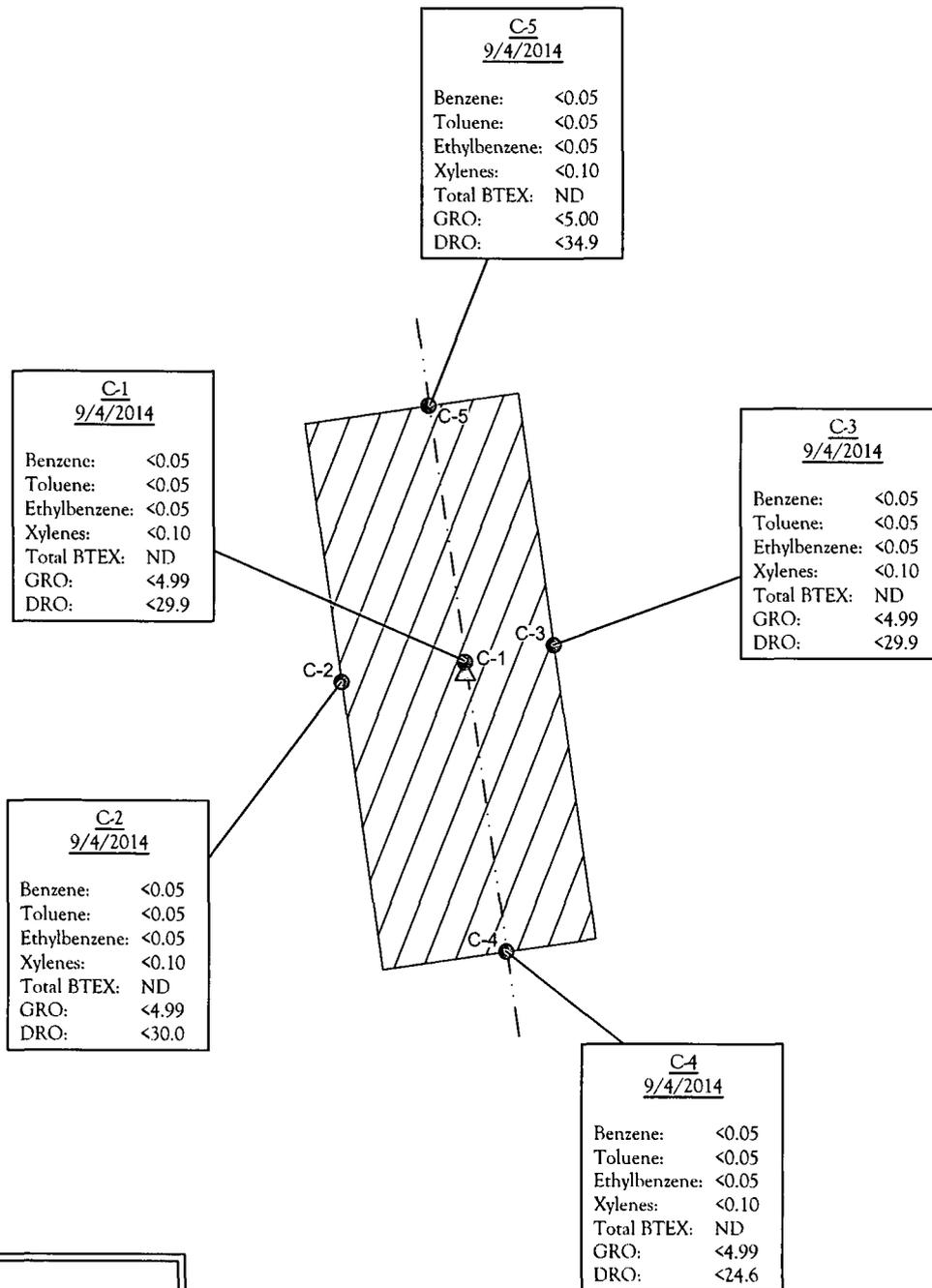
Lateral K-31 Truby #2 Pipeline Releases
SW¼ S16 T25N R6W
Rural Rio Arriba County, NM
36.3986N, 107.4765W



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FIGURE 3A
Site Map with
Soil Analytical Results
North Release

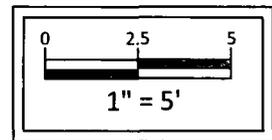
Project No. 7030414G031



LEGEND:

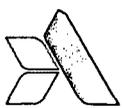
- PIPELINE
- SAMPLE LOCATION
- △ RELEASE POINT
- ▨ EXTENT OF EXCAVATION

NOTE: ALL VALUES ARE REPORTED IN mg/kg



Lateral K-31 Truby #2 Pipeline Releases
 SW¼ S16 T25N R6W
 Rural Rio Arriba County, NM
 36.3979N, 107.4763W

Project No. 7030414G031



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FIGURE 3B
Site Map with
Soil Analytical Results
South Release

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

97257-0649
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: Lateral K-31

Sep 2014

3. Location of Material (Street Address, City, State or ULSTR):

Unit Letter K Section 16 T 25N R 6W, GPS 36.39791, -107.47631, San Juan County, NM

4. Source and Description of Waste:

Source: Natural Gas Pipeline Release

Description: Exempt petroleum affected soil from clean-up efforts at pipeline release.

Estimated Volume 50 yd³ bbls Known Volume (to be entered by the operator at the end of the haul) 48 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, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to complete

Generator Signature

the required testing/sign the Generator Waste Testing Certification.

I, Kendra Running, 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 Energy Contractors~~ JTP 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: Kendra Running
SIGNATURE: Kendra Running
Surface Waste Management Facility Authorized Agent

TITLE: Waste Coordinator DATE: 9/3/14
TELEPHONE NO.: 505-632-0615

Photograph 1

View of final excavation at the North release location, facing north.



Photograph 2

View of excavation at the south release location during repair activities, facing east.





TABLE 1
Lateral K-31 Truby #2 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 Entergy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level | | | 10 | NE | NE | NE | 50 | 100 | |
| North Excavation Final Confirmation Samples | | | | | | | | | |
| S-1 | 9/3/2014 | 4.5 | <0.05 | <0.05 | <0.05 | <0.10 | ND | <4.99 | <30.0 |
| S-2 | 9/3/2014 | 2 to 4.5 | <0.05 | 0.14 | <0.05 | 1.77 | 1.91 | 24.1 | <30.0 |
| S-3 | 9/3/2014 | 2 to 4.5 | <0.05 | <0.05 | <0.05 | <0.10 | ND | <4.99 | <30.0 |
| S-4 | 9/3/2014 | 2 to 4.5 | <0.05 | <0.05 | <0.05 | <0.10 | ND | <5.00 | <30.0 |
| S-5 | 9/3/2014 | 2 to 4.5 | <0.05 | <0.05 | <0.05 | <0.10 | ND | <4.98 | <29.9 |
| South Excavation Final Confirmation Samples | | | | | | | | | |
| C-1 | 9/4/2014 | 3.5 | <0.05 | <0.05 | <0.05 | <0.10 | ND | <4.99 | <29.9 |
| C-2 | 9/4/2014 | 1 to 3.5 | <0.05 | <0.05 | <0.05 | <0.10 | ND | <4.99 | <30.0 |
| C-3 | 9/4/2014 | 1 to 3.5 | <0.05 | <0.05 | <0.05 | <0.10 | ND | <4.99 | <29.9 |
| C-4 | 9/4/2014 | 1 to 3.5 | <0.05 | <0.05 | <0.05 | <0.10 | ND | <4.99 | <24.6 |
| C-5 | 9/4/2014 | 1 to 3.5 | <0.05 | <0.05 | <0.05 | <0.10 | ND | <5.00 | <34.9 |
| Stockpile Sample | | | | | | | | | |
| SP-1 | 9/4/2014 | Stockpile | <0.05 | <0.05 | <0.05 | <0.10 | ND | <5.00 | <30.0 |

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

NE = Not Established

ND = Not Detected above Laboratory Reporting Limits



Analytical Report

Report Summary

Client: Enterprise Products
Chain Of Custody Number: 17390
Samples Received: 9/3/2014 4:28:00PM
Job Number: 97057-0352
Work Order: P409017
Project Name/Location: K-31 #2 Truby

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 9/5/14

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



| | | |
|---|---|------------------------------|
| Enterprise Products 614 Reilly Ave Farmington NM, 87401 | Project Name: K-31 #2 Truby Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN | Reported: 05-Sep-14 10:56 |
|---|---|------------------------------|

Analytical Report for Samples

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| S-1 | P409017-01A | Soil | 09/03/14 | 09/03/14 | Glass Jar, 4 oz. |
| S-2 | P409017-02A | Soil | 09/03/14 | 09/03/14 | Glass Jar, 4 oz. |
| S-3 | P409017-03A | Soil | 09/03/14 | 09/03/14 | Glass Jar, 4 oz. |
| S-4 | P409017-04A | Soil | 09/03/14 | 09/03/14 | Glass Jar, 4 oz. |
| S-5 | P409017-05A | Soil | 09/03/14 | 09/03/14 | Glass Jar, 4 oz. |

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| | | |
|---|---|------------------------------|
| Enterprise Products 614 Reilly Ave Farmington NM, 87401 | Project Name: K-31 #2 Truby Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN | Reported: 05-Sep-14 10:56 |
|---|---|------------------------------|

S-1
P409017-01 (Solid)

| Analyte | Result | Reporting | | | Batch | Prepared | Analyzed | Method | Notes |
|--|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | Dilution | | | | | |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Toluene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Ethylbenzene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| p,m-Xylene | ND | 0.10 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| o-Xylene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Total Xylenes | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Total BTEX | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| <i>Surrogate: Bromochlorobenzene</i> | | 81.6 % | | 50-150 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| <i>Surrogate: 1,3-Dichlorobenzene</i> | | 97.4 % | | 50-150 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 4.99 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 30.0 | mg/kg | 1 | 1436024 | 09/04/14 | 09/04/14 | EPA 8015D | |
| <i>Surrogate: Benzo[a]pyrene</i> | | 126 % | | 50-200 | 1436024 | 09/04/14 | 09/04/14 | EPA 8015D | |

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| | | |
|---|---|------------------------------|
| Enterprise Products 614 Reilly Ave Farmington NM, 87401 | Project Name: K-31 #2 Truby Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN | Reported: 05-Sep-14 10:56 |
|---|---|------------------------------|

S-2
P409017-02 (Solid)

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes | |
|--|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|--|
| | | Limit | Units | | | | | | | |
| Volatile Organics by EPA 8021 | | | | | | | | | | |
| Benzene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Toluene | 0.14 | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Ethylbenzene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| p,m-Xylene | 1.39 | 0.10 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| o-Xylene | 0.38 | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Total Xylenes | 1.77 | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Total BTEX | 1.91 | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| <i>Surrogate: 1,3-Dichlorobenzene</i> | | 87.4 % | | 50-150 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| <i>Surrogate: Bromochlorobenzene</i> | | 69.0 % | | 50-150 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Nonhalogenated Organics by 8015 | | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | 24.1 | 5.00 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8015D | | |
| Diesel Range Organics (C10-C28) | ND | 30.0 | mg/kg | 1 | 1436024 | 09/04/14 | 09/04/14 | EPA 8015D | | |
| <i>Surrogate: Benzo[a]pyrene</i> | | 107 % | | 50-200 | 1436024 | 09/04/14 | 09/04/14 | EPA 8015D | | |

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|---|---|------------------------------|
| Enterprise Products 614 Reilly Ave Farmington NM, 87401 | Project Name: K-31 #2 Truby Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN | Reported: 05-Sep-14 10:56 |
|---|---|------------------------------|

S-3

P409017-03 (Solid)

| Analyte | Result | Reporting | | | Batch | Prepared | Analyzed | Method | Notes |
|--|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | Dilution | | | | | |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Toluene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Ethylbenzene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| p,m-Xylene | ND | 0.10 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| o-Xylene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Total Xylenes | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Total BTEX | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| <i>Surrogate: Bromochlorobenzene</i> | | 77.7 % | | 50-150 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| <i>Surrogate: 1,3-Dichlorobenzene</i> | | 90.0 % | | 50-150 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 4.99 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 30.0 | mg/kg | 1 | 1436024 | 09/04/14 | 09/04/14 | EPA 8015D | |
| <i>Surrogate: Benzo[a]pyrene</i> | | 119 % | | 50-200 | 1436024 | 09/04/14 | 09/04/14 | EPA 8015D | |

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| | | |
|---|---|------------------------------|
| Enterprise Products 614 Reilly Ave Farmington NM, 87401 | Project Name: K-31 #2 Truby Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN | Reported: 05-Sep-14 10:56 |
|---|---|------------------------------|

S-4

P409017-04 (Solid)

| Analyte | Result | Reporting | | | Batch | Prepared | Analyzed | Method | Notes |
|--|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | Dilution | | | | | |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Toluene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Ethylbenzene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| p,m-Xylene | ND | 0.10 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| o-Xylene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Total Xylenes | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Total BTEX | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| <i>Surrogate: 1,3-Dichlorobenzene</i> | | 89.0 % | | 50-150 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| <i>Surrogate: Bromochlorobenzene</i> | | 79.1 % | | 50-150 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 5.00 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 30.0 | mg/kg | 1 | 1436024 | 09/04/14 | 09/04/14 | EPA 8015D | |
| <i>Surrogate: Benzo[a]pyrene</i> | | 111 % | | 50-200 | 1436024 | 09/04/14 | 09/04/14 | EPA 8015D | |

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| | | |
|---|---|------------------------------|
| Enterprise Products 614 Reilly Ave Farmington NM, 87401 | Project Name: K-31 #2 Truby Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN | Reported: 05-Sep-14 10:56 |
|---|---|------------------------------|

S-5
P409017-05 (Solid)

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes | |
|--|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|--|
| | | Limit | Units | | | | | | | |
| Volatile Organics by EPA 8021 | | | | | | | | | | |
| Benzene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Toluene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Ethylbenzene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| p,m-Xylene | ND | 0.10 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| o-Xylene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Total Xylenes | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Total BTEX | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| <i>Surrogate: 1,3-Dichlorobenzene</i> | | 88.5 % | | 50-150 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| <i>Surrogate: Bromochlorobenzene</i> | | 75.1 % | | 50-150 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Nonhalogenated Organics by 8015 | | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 4.98 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8015D | | |
| Diesel Range Organics (C10-C28) | ND | 29.9 | mg/kg | 1 | 1436024 | 09/04/14 | 09/04/14 | EPA 8015D | | |
| <i>Surrogate: Benzo[a]pyrene</i> | | 103 % | | 50-200 | 1436024 | 09/04/14 | 09/04/14 | EPA 8015D | | |

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|---|---|------------------------------|
| Enterprise Products 614 Reilly Ave Farmington NM, 87401 | Project Name: K-31 #2 Truby Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN | Reported: 05-Sep-14 10:56 |
|---|---|------------------------------|

Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 1436025 - Purge and Trap EPA 5030A

| Blank (1436025-BLK1) | | | Prepared & Analyzed: 04-Sep-14 | | | | | | | |
|---------------------------------------|------|------|---|------|--|------|--------|--|--|--|
| Benzene | ND | 0.05 | mg/kg | | | | | | | |
| Toluene | ND | 0.05 | " | | | | | | | |
| Ethylbenzene | ND | 0.05 | " | | | | | | | |
| p,m-Xylene | ND | 0.10 | " | | | | | | | |
| o-Xylene | ND | 0.05 | " | | | | | | | |
| Total Xylenes | ND | 0.05 | " | | | | | | | |
| Total BTEX | ND | 0.05 | " | | | | | | | |
| <i>Surrogate: 1,3-Dichlorobenzene</i> | 48.9 | | ug/L | 50.0 | | 97.7 | 50-150 | | | |
| <i>Surrogate: Bromochlorobenzene</i> | 42.5 | | " | 50.0 | | 85.0 | 50-150 | | | |

| Duplicate (1436025-DUP1) | | | Source: P409017-01 | | Prepared & Analyzed: 04-Sep-14 | | | | | |
|---------------------------------------|------|------|---------------------------|------|---|------|--------|--|--|----|
| Benzene | ND | 0.05 | mg/kg | | ND | | | | | 30 |
| Toluene | ND | 0.05 | " | | ND | | | | | 30 |
| Ethylbenzene | ND | 0.05 | " | | ND | | | | | 30 |
| p,m-Xylene | ND | 0.10 | " | | ND | | | | | 30 |
| o-Xylene | ND | 0.05 | " | | ND | | | | | 30 |
| <i>Surrogate: 1,3-Dichlorobenzene</i> | 45.9 | | ug/L | 50.0 | | 91.8 | 50-150 | | | |
| <i>Surrogate: Bromochlorobenzene</i> | 39.7 | | " | 50.0 | | 79.4 | 50-150 | | | |

| Matrix Spike (1436025-MS1) | | | Source: P409017-01 | | Prepared & Analyzed: 04-Sep-14 | | | | | |
|---------------------------------------|------|--|---------------------------|------|---|------|--------|--|--|--|
| Benzene | 47.9 | | ug/L | 50.0 | ND | 95.7 | 39-150 | | | |
| Toluene | 46.9 | | " | 50.0 | ND | 93.7 | 46-148 | | | |
| Ethylbenzene | 45.7 | | " | 50.0 | ND | 91.5 | 32-160 | | | |
| p,m-Xylene | 86.9 | | " | 100 | ND | 86.9 | 46-148 | | | |
| o-Xylene | 43.3 | | " | 50.0 | ND | 86.5 | 46-148 | | | |
| <i>Surrogate: 1,3-Dichlorobenzene</i> | 45.6 | | " | 50.0 | | 91.2 | 50-150 | | | |
| <i>Surrogate: Bromochlorobenzene</i> | 39.8 | | " | 50.0 | | 79.5 | 50-150 | | | |

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|---|---|------------------------------|
| Enterprise Products 614 Reilly Ave Farmington NM, 87401 | Project Name: K-31 #2 Truby Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN | Reported: 05-Sep-14 10:56 |
|---|---|------------------------------|

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---------------|------|-------------|------|-----------|-------|
| Batch 1436024 - DRO Extraction EPA 3550M | | | | | | | | | | |
| Blank (1436024-BLK1) Prepared & Analyzed: 04-Sep-14 | | | | | | | | | | |
| Diesel Range Organics (C10-C28) | ND | 24.9 | mg/kg | | | | | | | |
| Surrogate: Benzo[a]pyrene | 22.9 | | " | 19.9 | | 115 | 50-200 | | | |
| LCS (1436024-BS1) Prepared & Analyzed: 04-Sep-14 | | | | | | | | | | |
| Diesel Range Organics (C10-C28) | 530 | 29.9 | mg/kg | 499 | ND | 106 | 38-132 | | | |
| Surrogate: Benzo[a]pyrene | 20.9 | | " | 20.0 | | 105 | 50-200 | | | |
| Matrix Spike (1436024-MS1) Source: P409017-01 Prepared & Analyzed: 04-Sep-14 | | | | | | | | | | |
| Diesel Range Organics (C10-C28) | 528 | 30.0 | mg/kg | 499 | ND | 106 | 38-132 | | | |
| Surrogate: Benzo[a]pyrene | 24.8 | | " | 20.0 | | 124 | 50-200 | | | |
| Matrix Spike Dup (1436024-MSD1) Source: P409017-01 Prepared & Analyzed: 04-Sep-14 | | | | | | | | | | |
| Diesel Range Organics (C10-C28) | 569 | 30.0 | mg/kg | 499 | ND | 114 | 38-132 | 7.49 | 20 | |
| Surrogate: Benzo[a]pyrene | 25.8 | | " | 20.0 | | 129 | 50-200 | | | |

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|---|---|------------------------------|
| Enterprise Products 614 Reilly Ave Farmington NM, 87401 | Project Name: K-31 #2 Truby Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN | Reported: 05-Sep-14 10:56 |
|---|---|------------------------------|

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|-----------------|-------|---|---------------|------|-------------|-----|-----------|-------|
| Batch 1436025 - Purge and Trap EPA 5030A | | | | | | | | | | |
| Blank (1436025-BLK1) | | | | Prepared & Analyzed: 04-Sep-14 | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 4.99 | mg/kg | | | | | | | |
| Duplicate (1436025-DUP1) | | | | Source: P409017-01 Prepared & Analyzed: 04-Sep-14 | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 4.96 | mg/kg | | ND | | | | 30 | |
| Matrix Spike (1436025-MS1) | | | | Source: P409017-01 Prepared & Analyzed: 04-Sep-14 | | | | | | |
| Gasoline Range Organics (C6-C10) | 0.41 | | mg/L | 0.450 | 0.03 | 83.7 | 75-125 | | | |

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|---|---|------------------------------|
| Enterprise Products 614 Reilly Ave Farmington NM, 87401 | Project Name: K-31 #2 Truby Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN | Reported: 05-Sep-14 10:56 |
|---|---|------------------------------|

Notes and Definitions

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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CHAIN OF CUSTODY RECORD

17390

| | | |
|--|--|---|
| Client: <u>Enterprise</u> | Project Name / Location: <u>K-31 #2 Trubly</u> | ANALYSIS / PARAMETERS |
| Email, results to: <u>KSUMMERS@APEX001.COM</u> | Sampler Name: <u>Kyle Summers</u> | <div style="border: 1px solid black; border-radius: 50%; padding: 2px; display: inline-block;"> TPH (Method 8015) BTEX (Method 8021) VOC (Method 8260) RCRA 8 Metals Cation / Anion FCI TCLP with H/P CO Table 910-1 TPH (418.1) CHLORIDE Sample Cool Sample Intact </div> |
| Client Phone No.: <u>903 821 5603</u> | Client No.: <u>97097-0352</u> | |

| Sample No./ Identification | Sample Date | Sample Time | Lab No. | No./Volume of Containers | Preservative | | TPH (Method 8015) | BTEX (Method 8021) | VOC (Method 8260) | RCRA 8 Metals | Cation / Anion | FCI | TCLP with H/P | CO Table 910-1 | TPH (418.1) | CHLORIDE | Sample Cool | Sample Intact | |
|----------------------------|-------------|-------------|------------|--------------------------|------------------|-----|-------------------|--------------------|-------------------|---------------|----------------|-----|---------------|----------------|-------------|----------|-------------|---------------|---|
| | | | | | HNO ₃ | HCl | | | | | | | | | | | | | |
| S-1 | 9/3/14 | 1130 | PH09017-01 | 1 X 40 ^{cc} | | | X | X | | | | | | | | | | Y | Y |
| S-2 | ↓ | 1135 | -02 | ↓ | | | ↓ | ↓ | | | | | | | | | | ↓ | ↓ |
| S-3 | ↓ | 1140 | -03 | | | | ↓ | ↓ | | | | | | | | | | ↓ | ↓ |
| S-4 | ↓ | 1145 | -04 | | | | ↓ | ↓ | | | | | | | | | | ↓ | ↓ |
| S-5 | ↓ | 1150 | -05 | | | | ↓ | ↓ | | | | | | | | | | ↓ | ↓ |
| | | | NFS | | | | | | | | | | | | | | | | |
| | | | NFS | | | | | | | | | | | | | | | | |

| | | | | | |
|---|--------------------|------------------|---|--------------------|------------------|
| Relinquished by: (Signature) <u>[Signature]</u> | Date <u>9/3/14</u> | Time <u>1628</u> | Received by: (Signature) <u>[Signature]</u> | Date <u>9/3/14</u> | Time <u>1628</u> |
|---|--------------------|------------------|---|--------------------|------------------|

| | | | | | |
|------------------------------|------|------|--------------------------|------|------|
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|------------------------------|------|------|--------------------------|------|------|

Sample Matrix
 Soil Solid Sludge Aqueous Other

Sample(s) dropped off after hours to secure drop off area.

[Signature]

envirotech
Analytical Laboratory

6.1, 6.3, 4.3 5.6



Analytical Report

Report Summary

Client: Enterprise Products
Chain Of Custody Number: 17391
Samples Received: 9/4/2014 2:45:00PM
Job Number: 97057-0352
Work Order: P409018
Project Name/Location: K-31 #2 Truby South

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Tim Cain, Laboratory Manager

Date: 9/5/14

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

| | | |
|---|---|------------------------------|
| Enterprise Products 614 Reilly Ave Farmington NM, 87401 | Project Name: K-31 #2 Truby South Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN | Reported: 05-Sep-14 10:59 |
|---|---|------------------------------|

Analytical Report for Samples

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| C-1 | P409018-01A | Soil | 09/04/14 | 09/04/14 | Glass Jar, 4 oz. |
| C-2 | P409018-02A | Soil | 09/04/14 | 09/04/14 | Glass Jar, 4 oz. |
| C-3 | P409018-03A | Soil | 09/04/14 | 09/04/14 | Glass Jar, 4 oz. |
| C-4 | P409018-04A | Soil | 09/04/14 | 09/04/14 | Glass Jar, 4 oz. |
| C-5 | P409018-05A | Soil | 09/04/14 | 09/04/14 | Glass Jar, 4 oz. |
| SP-1 | P409018-06A | Soil | 09/04/14 | 09/04/14 | Glass Jar, 4 oz. |

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| | | |
|---|---|------------------------------|
| Enterprise Products 614 Reilly Ave Farmington NM, 87401 | Project Name: K-31 #2 Truby South Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN | Reported: 05-Sep-14 10:59 |
|---|---|------------------------------|

C-1
P409018-01 (Solid)

| Analyte | Result | Reporting | | | Batch | Prepared | Analyzed | Method | Notes |
|--|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | Dilution | | | | | |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Toluene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Ethylbenzene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| p,m-Xylene | ND | 0.10 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| o-Xylene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Total Xylenes | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Total BTEX | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| <i>Surrogate: Bromochlorobenzene</i> | | 94.9 % | | 50-150 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| <i>Surrogate: 1,3-Dichlorobenzene</i> | | 98.7 % | | 50-150 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 4.99 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 29.9 | mg/kg | 1 | 1436024 | 09/04/14 | 09/04/14 | EPA 8015D | |
| <i>Surrogate: Benzo[a]pyrene</i> | | 128 % | | 50-200 | 1436024 | 09/04/14 | 09/04/14 | EPA 8015D | |

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| | | |
|---|---|------------------------------|
| Enterprise Products 614 Reilly Ave Farmington NM, 87401 | Project Name: K-31 #2 Truby South Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN | Reported: 05-Sep-14 10:59 |
|---|---|------------------------------|

C-2
P409018-02 (Solid)

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Toluene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Ethylbenzene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| p,m-Xylene | ND | 0.10 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| o-Xylene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Total Xylenes | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Total BTEX | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| <i>Surrogate: Bromochlorobenzene</i> | | 95.2 % | | 50-150 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| <i>Surrogate: 1,3-Dichlorobenzene</i> | | 96.5 % | | 50-150 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 4.99 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 30.0 | mg/kg | 1 | 1436024 | 09/04/14 | 09/04/14 | EPA 8015D | |
| <i>Surrogate: Benzo[a]pyrene</i> | | 115 % | | 50-200 | 1436024 | 09/04/14 | 09/04/14 | EPA 8015D | |

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| | | |
|---|---|------------------------------|
| Enterprise Products 614 Reilly Ave Farmington NM, 87401 | Project Name: K-31 #2 Truby South Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN | Reported: 05-Sep-14 10:59 |
|---|---|------------------------------|

C-3

P409018-03 (Solid)

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes | |
|--|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|--|
| | | Limit | Units | | | | | | | |
| Volatile Organics by EPA 8021 | | | | | | | | | | |
| Benzene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Toluene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Ethylbenzene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| p,m-Xylene | ND | 0.10 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| o-Xylene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Total Xylenes | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Total BTEX | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| <i>Surrogate: 1,3-Dichlorobenzene</i> | | 97.4 % | | 50-150 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| <i>Surrogate: Bromochlorobenzene</i> | | 96.2 % | | 50-150 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Nonhalogenated Organics by 8015 | | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 4.99 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8015D | | |
| Diesel Range Organics (C10-C28) | ND | 29.9 | mg/kg | 1 | 1436024 | 09/04/14 | 09/04/14 | EPA 8015D | | |
| <i>Surrogate: Benzo[a]pyrene</i> | | 143 % | | 50-200 | 1436024 | 09/04/14 | 09/04/14 | EPA 8015D | | |

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| | | |
|---|---|------------------------------|
| Enterprise Products 614 Reilly Ave Farmington NM, 87401 | Project Name: K-31 #2 Truby South Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN | Reported: 05-Sep-14 10:59 |
|---|---|------------------------------|

C-4

P409018-04 (Solid)

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Toluene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Ethylbenzene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| p,m-Xylene | ND | 0.10 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| o-Xylene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Total Xylenes | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Total BTEX | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| <i>Surrogate: Bromochlorobenzene</i> | | 94.5 % | | 50-150 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| <i>Surrogate: 1,3-Dichlorobenzene</i> | | 95.5 % | | 50-150 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 4.99 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 24.6 | mg/kg | 1 | 1436024 | 09/04/14 | 09/04/14 | EPA 8015D | |
| <i>Surrogate: Benzo[a]pyrene</i> | | 116 % | | 50-200 | 1436024 | 09/04/14 | 09/04/14 | EPA 8015D | |

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| | | |
|---|---|------------------------------|
| Enterprise Products 614 Reilly Ave Farmington NM, 87401 | Project Name: K-31 #2 Truby South Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN | Reported: 05-Sep-14 10:59 |
|---|---|------------------------------|

C-5
P409018-05 (Solid)

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes | |
|--|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|--|
| | | Limit | Units | | | | | | | |
| Volatile Organics by EPA 8021 | | | | | | | | | | |
| Benzene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Toluene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Ethylbenzene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| p,m-Xylene | ND | 0.10 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| o-Xylene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Total Xylenes | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Total BTEX | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| <i>Surrogate: Bromochlorobenzene</i> | | 97.2 % | | | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| <i>Surrogate: 1,3-Dichlorobenzene</i> | | 97.6 % | | | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Nonhalogenated Organics by 8015 | | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 5.00 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8015D | | |
| Diesel Range Organics (C10-C28) | ND | 34.9 | mg/kg | 1 | 1436024 | 09/04/14 | 09/04/14 | EPA 8015D | | |
| <i>Surrogate: Benzo[a]pyrene</i> | | 132 % | | | 1436024 | 09/04/14 | 09/04/14 | EPA 8015D | | |

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| | | |
|---|---|------------------------------|
| Enterprise Products 614 Reilly Ave Farmington NM, 87401 | Project Name: K-31 #2 Truby South Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN | Reported: 05-Sep-14 10:59 |
|---|---|------------------------------|

SP-1
P409018-06 (Solid)

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes | |
|--|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|--|
| | | Limit | Units | | | | | | | |
| Volatile Organics by EPA 8021 | | | | | | | | | | |
| Benzene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Toluene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Ethylbenzene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| p,m-Xylene | ND | 0.10 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| o-Xylene | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Total Xylenes | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Total BTEX | ND | 0.05 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| <i>Surrogate: 1,3-Dichlorobenzene</i> | | 98.3 % | | 50-150 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| <i>Surrogate: Bromochlorobenzene</i> | | 99.5 % | | 50-150 | 1436025 | 09/04/14 | 09/04/14 | EPA 8021B | | |
| Nonhalogenated Organics by 8015 | | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 5.00 | mg/kg | 1 | 1436025 | 09/04/14 | 09/04/14 | EPA 8015D | | |
| Diesel Range Organics (C10-C28) | ND | 30.0 | mg/kg | 1 | 1436024 | 09/04/14 | 09/04/14 | EPA 8015D | | |
| <i>Surrogate: Benzo[a]pyrene</i> | | 120 % | | 50-200 | 1436024 | 09/04/14 | 09/04/14 | EPA 8015D | | |

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| | | |
|---|---|------------------------------|
| Enterprise Products 614 Reilly Ave Farmington NM, 87401 | Project Name: K-31 #2 Truby South Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN | Reported: 05-Sep-14 10:59 |
|---|---|------------------------------|

Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 1436025 - Purge and Trap EPA 5030A

| Blank (1436025-BLK1) | | | Prepared & Analyzed: 04-Sep-14 | | | | | | | |
|--------------------------------|------|------|--------------------------------|------|--|------|--------|--|--|--|
| Benzene | ND | 0.05 | mg/kg | | | | | | | |
| Toluene | ND | 0.05 | " | | | | | | | |
| Ethylbenzene | ND | 0.05 | " | | | | | | | |
| p,m-Xylene | ND | 0.10 | " | | | | | | | |
| o-Xylene | ND | 0.05 | " | | | | | | | |
| Total Xylenes | ND | 0.05 | " | | | | | | | |
| Total BTEX | ND | 0.05 | " | | | | | | | |
| Surrogate: 1,3-Dichlorobenzene | 48.9 | | ug/L | 50.0 | | 97.7 | 50-150 | | | |
| Surrogate: Bromochlorobenzene | 42.5 | | " | 50.0 | | 85.0 | 50-150 | | | |

| Duplicate (1436025-DUP1) | | | Source: P409017-01 | | Prepared & Analyzed: 04-Sep-14 | | | | | |
|---------------------------------|------|------|--------------------|------|--------------------------------|------|--------|--|--|----|
| Benzene | ND | 0.05 | mg/kg | | ND | | | | | 30 |
| Toluene | ND | 0.05 | " | | ND | | | | | 30 |
| Ethylbenzene | ND | 0.05 | " | | ND | | | | | 30 |
| p,m-Xylene | ND | 0.10 | " | | ND | | | | | 30 |
| o-Xylene | ND | 0.05 | " | | ND | | | | | 30 |
| Surrogate: 1,3-Dichlorobenzene | 45.9 | | ug/L | 50.0 | | 91.8 | 50-150 | | | |
| Surrogate: Bromochlorobenzene | 39.7 | | " | 50.0 | | 79.4 | 50-150 | | | |

| Matrix Spike (1436025-MS1) | | | Source: P409017-01 | | Prepared & Analyzed: 04-Sep-14 | | | | | |
|-----------------------------------|------|--|--------------------|------|--------------------------------|------|--------|--|--|--|
| Benzene | 47.9 | | ug/L | 50.0 | ND | 95.7 | 39-150 | | | |
| Toluene | 46.9 | | " | 50.0 | ND | 93.7 | 46-148 | | | |
| Ethylbenzene | 45.7 | | " | 50.0 | ND | 91.5 | 32-160 | | | |
| p,m-Xylene | 86.9 | | " | 100 | ND | 86.9 | 46-148 | | | |
| o-Xylene | 43.3 | | " | 50.0 | ND | 86.5 | 46-148 | | | |
| Surrogate: 1,3-Dichlorobenzene | 45.6 | | " | 50.0 | | 91.2 | 50-150 | | | |
| Surrogate: Bromochlorobenzene | 39.8 | | " | 50.0 | | 79.5 | 50-150 | | | |

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| | | |
|---|---|------------------------------|
| Enterprise Products 614 Reilly Ave Farmington NM, 87401 | Project Name: K-31 #2 Truby South Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN | Reported: 05-Sep-14 10:59 |
|---|---|------------------------------|

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|-----------------|-------|--------------------------------|---------------|--------------------------------|-------------|------|-----------|-------|
| Batch 1436024 - DRO Extraction EPA 3550M | | | | | | | | | | |
| Blank (1436024-BLK1) | | | | Prepared & Analyzed: 04-Sep-14 | | | | | | |
| Diesel Range Organics (C10-C28) | ND | 24.9 | mg/kg | | | | | | | |
| Surrogate: Benzo[a]pyrene | 22.9 | | " | 19.9 | | 115 | 50-200 | | | |
| LCS (1436024-BS1) | | | | Prepared & Analyzed: 04-Sep-14 | | | | | | |
| Diesel Range Organics (C10-C28) | 530 | 29.9 | mg/kg | 499 | ND | 106 | 38-132 | | | |
| Surrogate: Benzo[a]pyrene | 20.9 | | " | 20.0 | | 105 | 50-200 | | | |
| Matrix Spike (1436024-MS1) | | | | Source: P409017-01 | | Prepared & Analyzed: 04-Sep-14 | | | | |
| Diesel Range Organics (C10-C28) | 528 | 30.0 | mg/kg | 499 | ND | 106 | 38-132 | | | |
| Surrogate: Benzo[a]pyrene | 24.8 | | " | 20.0 | | 124 | 50-200 | | | |
| Matrix Spike Dup (1436024-MSD1) | | | | Source: P409017-01 | | Prepared & Analyzed: 04-Sep-14 | | | | |
| Diesel Range Organics (C10-C28) | 569 | 30.0 | mg/kg | 499 | ND | 114 | 38-132 | 7.49 | 20 | |
| Surrogate: Benzo[a]pyrene | 25.8 | | " | 20.0 | | 129 | 50-200 | | | |

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|---|---|------------------------------|
| Enterprise Products 614 Reilly Ave Farmington NM, 87401 | Project Name: K-31 #2 Truby South Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN | Reported: 05-Sep-14 10:59 |
|---|---|------------------------------|

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 1436025 - Purge and Trap EPA 5030A

| | | | | | | | | | | |
|-----------------------------------|------|--------------------------------|-------|--------------------------------|------|------|--------|--|----|--|
| Blank (1436025-BLK1) | | Prepared & Analyzed: 04-Sep-14 | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 4.99 | mg/kg | | | | | | | |
| Duplicate (1436025-DUP1) | | Source: P409017-01 | | Prepared & Analyzed: 04-Sep-14 | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 4.96 | mg/kg | | ND | | | | 30 | |
| Matrix Spike (1436025-MS1) | | Source: P409017-01 | | Prepared & Analyzed: 04-Sep-14 | | | | | | |
| Gasoline Range Organics (C6-C10) | 0.41 | | mg/L | 0.450 | 0.03 | 83.7 | 75-125 | | | |

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| | | | |
|----------------------|------------------|-------------------------|-------------------------------------|
| Enterprise Products | Project Name: | K-31 #2 Truby South | Reported: 05-Sep-14 10:59 |
| 614 Reilly Ave | Project Number: | 97057-0352 | |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | |

Notes and Definitions

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

CHAIN OF CUSTODY RECORD

17391

| | | | | | | | | | | | | | | | | |
|--|---|--|------------------------------|-------------------------------|-------------------|---------------|----------------|----------------|---------------|----------------|-------------|----------|-------------|---------------|-------------|---------------|
| Client: <u>Enterprise</u> | Project Name / Location: <u>R-31 #2 Truky South</u> | ANALYSIS / PARAMETERS | | | | | | | | | | | | | | |
| Email results to: <u>R.Summers@Apexcos.com</u> | Sampler Name: <u>Ryle Summers</u> | <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <tr> <td style="width: 5%;">TPH (Method 8015) <u>910</u></td> <td style="width: 5%;">BTEX (Method 8021) <u>910</u></td> <td style="width: 5%;">VOC (Method 8260)</td> <td style="width: 5%;">RCRA 8 Metals</td> <td style="width: 5%;">Cation / Anion</td> <td style="width: 5%;">RCI</td> <td style="width: 5%;">TCLP with H/P</td> <td style="width: 5%;">CO Table 910-1</td> <td style="width: 5%;">TPH (418.1)</td> <td style="width: 5%;">CHLORIDE</td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;">Sample Cool</td> <td style="width: 5%;">Sample Intact</td> </tr> </table> | TPH (Method 8015) <u>910</u> | BTEX (Method 8021) <u>910</u> | VOC (Method 8260) | RCRA 8 Metals | Cation / Anion | RCI | TCLP with H/P | CO Table 910-1 | TPH (418.1) | CHLORIDE | | | Sample Cool | Sample Intact |
| TPH (Method 8015) <u>910</u> | BTEX (Method 8021) <u>910</u> | | VOC (Method 8260) | RCRA 8 Metals | Cation / Anion | RCI | TCLP with H/P | CO Table 910-1 | TPH (418.1) | CHLORIDE | | | Sample Cool | Sample Intact | | |
| Client Phone No.: <u>903-821-5603</u> | Client No.: <u>97057-0352</u> | | | | | | | | | | | | | | | |

| Sample No./ Identification | Sample Date | Sample Time | Lab No. | No./Volume of Containers | Preservative | | | TPH (Method 8015) <u>910</u> | BTEX (Method 8021) <u>910</u> | VOC (Method 8260) | RCRA 8 Metals | Cation / Anion | RCI | TCLP with H/P | CO Table 910-1 | TPH (418.1) | CHLORIDE | | | Sample Cool | Sample Intact |
|----------------------------|---------------|-------------|-------------------|--------------------------|------------------|-----|--|------------------------------|-------------------------------|-------------------|---------------|----------------|-----|---------------|----------------|-------------|----------|--|--|-------------|---------------|
| | | | | | HNO ₃ | HCl | | | | | | | | | | | | | | | |
| <u>C-1</u> | <u>9/4/14</u> | <u>1200</u> | <u>P409018-01</u> | <u>1 X 4oz.</u> | | | | <u>X</u> | <u>X</u> | | | | | | | | | | | <u>X</u> | <u>X</u> |
| <u>C-2</u> | | <u>1205</u> | <u>P409018-02</u> | | | | | | | | | | | | | | | | | <u>X</u> | <u>X</u> |
| <u>C-3</u> | | <u>1210</u> | <u>P409018-03</u> | | | | | | | | | | | | | | | | | <u>X</u> | <u>X</u> |
| <u>C-4</u> | | <u>1215</u> | <u>P409018-04</u> | | | | | | | | | | | | | | | | | <u>X</u> | <u>X</u> |
| <u>C-5</u> | | <u>1220</u> | <u>P409018-05</u> | | | | | | | | | | | | | | | | | <u>X</u> | <u>X</u> |
| <u>SP-1</u> | | <u>1245</u> | <u>P409018-06</u> | | | | | | | | | | | | | | | | | <u>X</u> | <u>X</u> |
| RES | | | | | | | | | | | | | | | | | | | | | |

| | | | | | |
|---|--------------------|------------------|--|--------------------|------------------|
| Relinquished by: (Signature) <u>[Signature]</u> | Date <u>9/4/14</u> | Time <u>1445</u> | Received by: (Signature) <u>Miriam Joe</u> | Date <u>9/4/14</u> | Time <u>1445</u> |
|---|--------------------|------------------|--|--------------------|------------------|

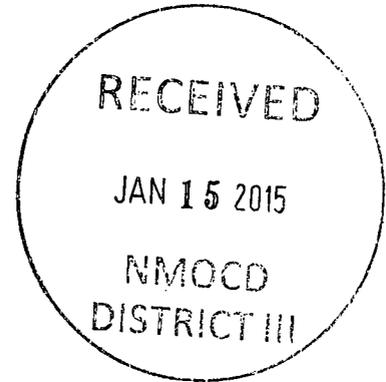
| | | | | | |
|------------------------------|------|------|--------------------------|------|------|
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|------------------------------|------|------|--------------------------|------|------|

Sample Matrix
 Soil Solid Sludge Aqueous Other

Sample(s) dropped off after hours to secure drop off area.
RUSH

10.4 9.7 8.3

9.5



CORRECTIVE ACTION REPORT

Property:

2ND Report

**Lateral K-31 September 2014 Pipeline Releases
SW 1/4, S9 T25N R6W
NW 1/4 and SW 1/4, S16 T25N R6W
Rio Arriba County, New Mexico**

December 15, 2014
Apex Project No. 7030414G034

Prepared for:

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

Prepared by:

Heather M. Woods

Heather M. Woods, P.G.
Senior Project Manager

Elizabeth Scaggs

Elizabeth Scaggs, P.G.
Senior Program Manager

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CORRECTIVE ACTION REPORT

Lateral K-31 September 2014 Pipeline Releases

SW 1/4, S9 T25N R6W
NW 1/4 and SW 1/4, S16 T25N R6W
Rio Arriba County, New Mexico

Apex Project No. 7030414G034

1.0 INTRODUCTION

1.1 Site Description & Background

The Lateral K-31 September 2014 Pipeline Release Sites are located within the Enterprise Field Services LLC (Enterprise) pipeline right-of-way (ROW) in the southwest (SW) ¼ of Section 9, and the northwest (NW) ¼ and SW ¼ of Section 16, in Township 25 North and Range 6 West in rural Rio Arriba County, New Mexico (North Release 36.40734N, 107.47930W; Mid-North Release 36.39985N, 107.47667W; Mid-South Release 36.39557N, 107.47572W; and South Release 36.39408N, 107.47519W), referred to hereinafter as the "Sites" or "subject Sites". The North Release Site is located on public land managed by the United States Bureau of Land Management (BLM) and the Mid-North, Mid-South, and South Releases are located on land owned by the State of New Mexico. The Sites are surrounded by native vegetation rangeland periodically interrupted with oil and gas production and gathering facilities, including the Enterprise natural gas gathering pipeline which traverses the area from approximately north to south.

Beginning on September 11, 2014, Enterprise initiated excavation activities at the Sites in an effort to locate and repair four subsurface leaks. The leaks were subsequently identified and repaired. An unknown quantity of dry natural gas and pipeline liquids were released from the pipeline as a result of internal corrosion at each release location. The leaks were initially identified by releases of natural gas and/or minor staining at the ground surface.

A topographic map depicting the location of the Sites 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 actions 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* 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 EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases*, Apex TITAN, Inc. (Apex) utilized the general site characteristics obtained during the completion of corrective action activities and information available from the Office of the New



Mexico Office of the State Engineer (OSE) to determine the appropriate "ranking" for the Sites. The ranking criteria and associated scoring are provided in the following tables:

| North, Mid-North and Mid-South Sites | | | |
|--|-------------------|----|----------------------|
| 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 North, Mid-North, and Mid-South Sites would have a maximum Total Ranking Score of "30".

| South Site | | | |
|--|-------------------|----|----------------------|
| 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 | 0 |
| | 200 to 1,000 feet | 10 | |
| | >1,000 feet | 0 | |
| Total Ranking Score | | | 20 |

Based on Apex's evaluation of the scoring criteria, the South Site would have a maximum Total Ranking Score of "20". The rankings are based on the following:

- Depth to groundwater is approximately 15 feet below grade surface (bgs) as observed in nearby groundwater monitoring wells and elevation differential between the Site and Largo Wash, resulting in a depth to groundwater ranking of "20". No nearby water wells were identified on the Office of the State Engineer (OSE) website database.
- 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 North and Mid-North release points are located between 500 feet to 700 feet of small ephemeral washes which drain to the Largo Wash east of the Sites. The Mid-South release point is located approximately 870 feet southwest of a stockpond. These proximities result in a distance to surface water body ranking of "10" for the North, Mid-North, and Mid-South Sites. The South release point is located approximately 1,500 feet west of the Largo Wash, resulting in a distance to surface water body ranking of "0"

3.0 RESPONSE ACTIONS

3.1 Soil Excavation Activities

Beginning on September 11, 2014, Enterprise initiated excavation activities at the Sites in an effort to locate and repair four subsurface leaks. The leaks were subsequently identified and repaired. An unknown quantity of dry natural gas and pipeline liquids were released from the pipeline as a result of internal corrosion at each release location. The leaks were initially identified by releases of natural gas and/or minor staining at the ground surface. During the corrective action activities, Energy Maintenance Services USA, Inc. provided heavy equipment and labor support, and Heather Woods, an Apex environmental professional, provided environmental support.

The surface expression of the North excavation measured approximately 36 feet long by 8 feet wide and 4 feet bgs in depth; the Mid-North excavation measured approximately 24 feet long by 10.5 feet wide and 6 feet bgs in depth; the Mid-South excavation measured approximately 38 feet long by 8 feet wide and 5 feet bgs in depth (with an extension of 6 feet long by 8 feet wide and 5 feet bgs in depth); and the South excavation measured approximately 31 feet long by 12 feet wide by 10 to 12 feet bgs in depth (with an extension of approximately 15 feet wide by 4 feet long by 10 to 12 feet bgs in depth).

The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated silty and clayey sands, with silt and clay lenses.

A total of approximately 374 cubic yards of hydrocarbon affected soils were transported to the Envirotech Landfarm near Hilltop, New Mexico for disposal/remediation. Additionally, a total of approximately 1,635 barrels (bbls) of water were removed from the four excavations during dewatering activities and transported to the Basin Disposal, Inc. facility in Bloomfield, New Mexico for disposal. The executed C-138 forms are provided in Appendix B. The remaining unaffected soil stockpiles were sampled to verify acceptable COC concentrations prior to use as backfill. Clean imported fill was then utilized to complete the backfilling activities, and the resulting areas were then contoured to surrounding grade.

Figures 3A through 3D are site maps indicating the approximate locations of the excavated areas 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 Site soils with a photoionization detector (PID) fitted with a 10.6 electron volt (eV) lamp to aid in determining the excavation limits.

Apex's soil sampling program included the collection of five (5) final confirmation samples (S-1 North through S-5 North) from the North Release excavation, five (5) final confirmation samples (S-1 Mid-North through S-5 Mid-North) from the Mid-North Release excavation, six (6) final confirmation samples (S-1 Mid-South through S-6 Mid-South) from the Mid-South Release excavation, and twelve (12) final confirmation samples (S-1 South through S-12 South) from the South Release excavation for laboratory analysis. Additionally, the sampling program included the collection of three (3) composite samples (SP-1 North through SP-3 North) from the remaining North Release stockpiled soils, two (2) composite samples (SP-1 Mid-North and SP-2 Mid-North) from the remaining Mid-North Release stockpiled soils, and two (2) composite samples (SP-1 Mid-South and SP-2 Mid-South) from the remaining Mid-South Release stockpiled soils to determine the potential to reuse these soils as backfill material. Figures 3A, 3B, 3C, and

3D show 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 labels, and placed on ice in a cooler, which was secured with a custody seal. The sample cooler and completed chain-of-custody form were relinquished to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico, for analysis.

3.3 Laboratory Analytical Methods

The confirmation soil samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) utilizing EPA SW-846 Method #8021, and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO) utilizing EPA SW-846 Method #8015. At the request of the OCD, soil samples S-5 North, and SP-1 North through SP-3 North were analyzed for chlorides utilizing EPA Method 300.0.

Laboratory results are summarized in Table 1, included in Appendix D. The executed chain-of-custody forms and laboratory data reports 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 New Mexico Administrative Code 19.15.29 *Remediation Plan*. 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 reporting limits associated with the final confirmation samples collected from the excavated areas to the OCD *Remediation Action Levels* (RALs) for sites having a total ranking score of greater than 20.

North Release

- The laboratory analyses of confirmation samples collected from soils remaining in place at the North Release location do not indicate benzene concentrations above the laboratory reporting limits, which are below the OCD RAL.
- The laboratory analyses of confirmation samples collected from soils remaining in place at the North Release location indicate total BTEX concentrations ranging from below the laboratory reporting limits to 0.18 milligrams per kilogram (mg/kg), which are below the OCD RAL.
- The laboratory analyses of confirmation samples collected from soils remaining in place at the North Release location do not indicate combined TPH GRO/DRO concentrations above the laboratory reporting limits, which are below the OCD RAL for a Site ranking of "30".
- The OCD requested that a sample from the excavation and all the stockpile samples at the North Release location be analyzed to determine the chloride concentration of the

release area soils. The laboratory analysis of sample S-5 North, collected from the base of the excavation, and stockpile samples SP-1 through SP-3, exhibited chloride concentrations ranging from 59 mg/kg to 180 mg/kg.

Mid-North Release

- The laboratory analyses of confirmation samples collected from soils remaining in place at the Mid-North Release location do not indicate benzene concentrations above the laboratory reporting limits, which are below the OCD RAL.
- The laboratory analyses of confirmation samples collected from soils remaining in place at the Mid-North Release location do not indicate total BTEX concentrations above the laboratory reporting limits, which are below the OCD RAL.
- The laboratory analyses of confirmation samples collected from soils remaining in place at the North Release location do not indicate combined TPH GRO/DRO concentrations above the laboratory reporting limits, which are below the OCD RAL for a Site ranking of "30".

Mid-South Release

Soil sample S-1 Mid-South was removed by excavation and is not included in the following discussion. Subsequent to the extension of the excavation to the north, soil sample S-6 Mid-South was collected from the north wall to replace soil sample S-1 Mid-South.

- The laboratory analyses of confirmation samples collected from soils remaining in place at the Mid-North Release location do not indicate benzene concentrations above the laboratory reporting limits, which are below the OCD RAL.
- The laboratory analyses of confirmation samples collected from soils remaining in place at the Mid-South Release location indicate total BTEX concentrations ranging from below the laboratory reporting limits to 3.7 mg/kg, which are below the OCD RAL.
- The laboratory analyses of the confirmation samples collected from soils remaining in place at the Mid-South Release location indicate combined TPH GRO/DRO concentrations ranging from below the laboratory reporting limits to 52 mg/kg, which are below the OCD RAL for a Site ranking of "30".

South Release

Soil samples S-6 South and S-7 South were removed by excavation and are not included in the following discussion. Subsequent to the extension of the excavation to the northwest, soil sample S-10 South was collected to replace soil sample S-6 South. Additionally, following the excavation was extended from a depth of approximately 8 feet bgs to approximately 10 to 12 feet bgs, where soil samples S-8 South, S-9 South, S-11 South, and S-12 South were collected to replace soil sample S-7 South.

- The laboratory analysis of confirmation samples collected from soils remaining in place at the South excavation indicated benzene concentrations ranging from below the laboratory reporting limits to 0.32 mg/kg, which are below the OCD RAL.
- The laboratory analyses of confirmation samples collected from soils remaining in place at the South Release location indicate total BTEX concentrations ranging from below the laboratory reporting limits to 0.92 mg/kg, which are below the OCD RAL.

- The laboratory analyses of the confirmation samples collected from soils remaining in place at the South Release location indicate combined TPH GRO/DRO concentrations ranging from below the laboratory reporting limits to 22 mg/kg, which are below the OCD RAL for a Site ranking of "20".

Confirmation sample results are provided in Table 1 through Table 4 in Appendix D.

5.0 FINDINGS AND RECOMMENDATIONS

The Lateral K-31 September 2014 Pipeline Release Sites are located within the Enterprise pipeline ROW in the SW $\frac{1}{4}$ of Section 9, and the NW $\frac{1}{4}$ and SW $\frac{1}{4}$ of Section 16, in Township 25 North and Range 6 West in rural Rio Arriba County, New Mexico (North Release 36.40734N, 107.47930W; Mid-North Release 36.39985N, 107.47667W; Mid-South Release 36.39557N, 107.47572W; and South Release 36.39408N, 107.47519W). The North Release Site is located on public land managed by the BLM and the Mid-North, Mid-South, and South Releases are located on land owned by the State of New Mexico. The Sites are surrounded by native vegetation rangeland periodically interrupted with oil and gas production and gathering facilities, including the Enterprise natural gas gathering pipeline which traverses the area from approximately north to south.

Beginning on September 11, 2014, Enterprise initiated excavation activities at the Sites in an effort to locate and repair four subsurface leaks. The leaks were subsequently identified and repaired. An unknown quantity of dry natural gas and pipeline liquids were released from the pipeline as a result of internal corrosion at each release location. The leaks were initially identified by releases of natural gas and/or minor staining at the ground surface.

- 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 and clayey sands, with silt and clay lenses.
- The surface expression of the North excavation measured approximately 36 feet long by 8 feet wide and 4 feet bgs in depth; the Mid-North excavation measured approximately 24 feet long by 10.5 feet wide and 6 feet bgs in depth; the Mid-South excavation measured approximately 38 feet long by 8 feet wide and 5 feet bgs in depth (with an extension of 6 feet long by 8 feet wide and 5 feet bgs in depth); and the South excavation measured approximately 31 feet long by 12 feet wide by 10 to 12 feet bgs in depth (with an extension of approximately 15 feet wide by 4 feet long by 10 to 12 feet bgs in depth).
- Prior to backfilling, final confirmation samples were collected from the resulting excavations for laboratory analyses. Based on analytical results, soils remaining in place do not exhibit COC concentrations above the OCD RALs for Sites with rankings of "20" and "30".
- A total of approximately 374 cubic yards of hydrocarbon affected soils were transported to the Envirotech Landfarm near Hilltop, New Mexico for disposal/remediation. Additionally, a total of approximately 1,635 barrels (bbls) of water were removed from the four excavations during dewatering activities and transported to the Basin Disposal, Inc. facility in Bloomfield, New Mexico for disposal. The remaining unaffected soil stockpiles were sampled to verify acceptable COC concentrations prior to use as backfill. Clean

imported fill was then utilized to complete the backfilling activities, and the resulting areas were then contoured to surrounding grade.

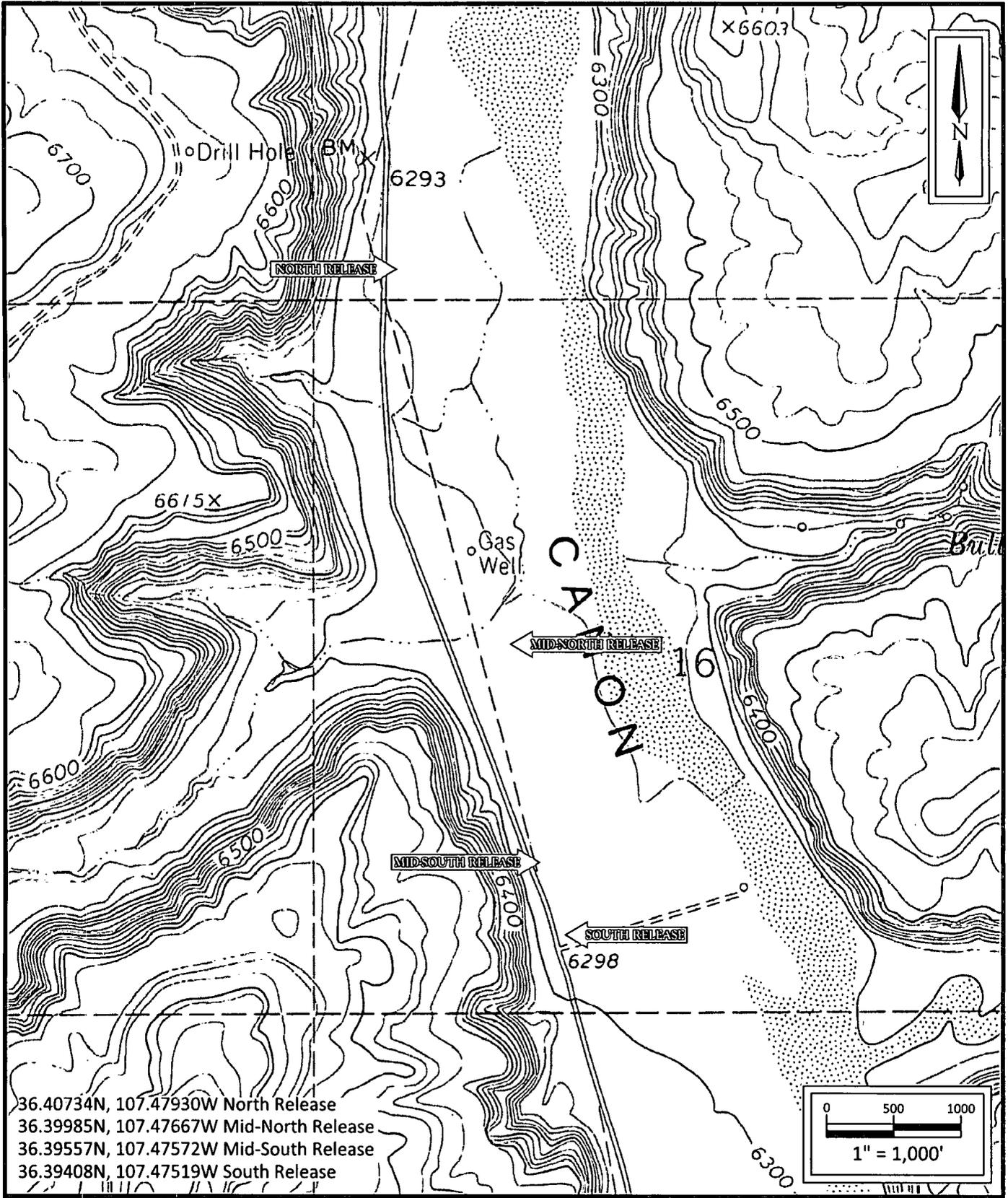
Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

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.

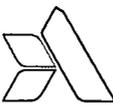
This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution 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.



36.40734N, 107.47930W North Release
 36.39985N, 107.47667W Mid-North Release
 36.39557N, 107.47572W Mid-South Release
 36.39408N, 107.47519W South Release

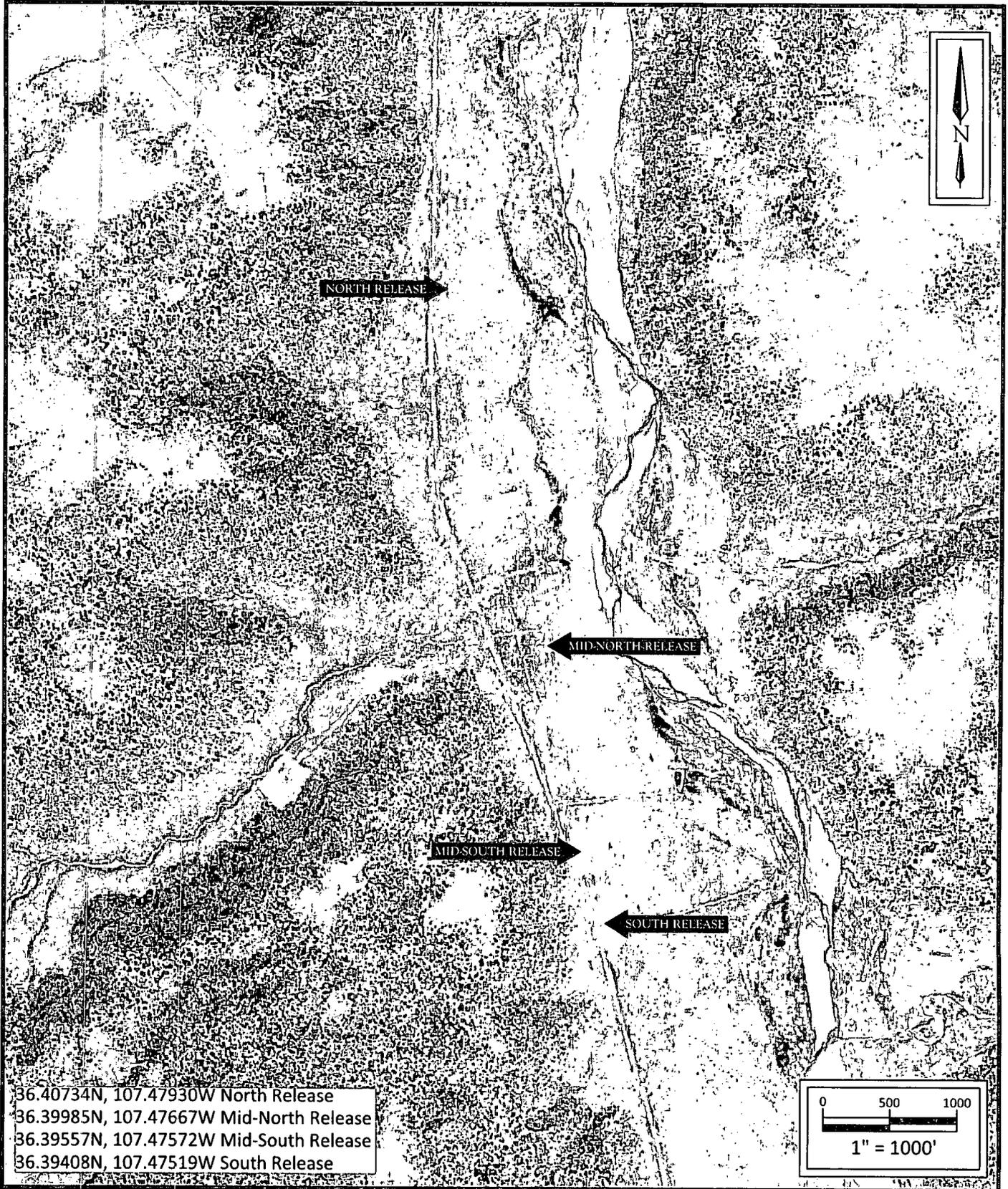
Lateral K-31 September 2014
Pipeline Releases
 SW $\frac{1}{4}$ S9 T25N R6W
 NW $\frac{1}{4}$ and SW $\frac{1}{4}$ S16 T25N R6W
 Rural Rio Arriba County, NM

Project No. 7030414G034



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 Phone: (505) 334-5200
www.apexcos.com
 A Subsidiary of Apex Companies, LLC

FIGURE 1
Topographic Map
 Gonzales Mesa, NM Quadrangle
 1963



**Lateral K-31 September 2014
 Pipeline Releases**
 SW $\frac{1}{4}$ S9 T25N R6W
 NW $\frac{1}{4}$ and SW $\frac{1}{4}$ S16 T25N R6W
 Rural Rio Arriba County, NM

Project No. 7030414G034



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FIGURE 2
Site Vicinity Map
 2013 Aerial Photograph



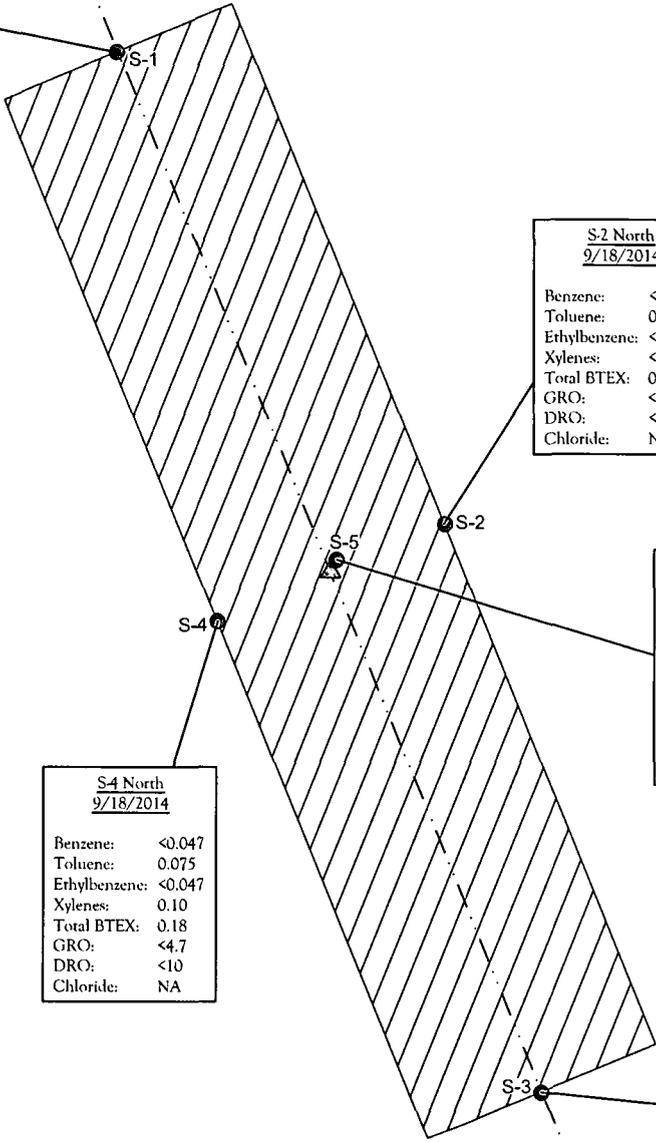
| S-1 North 9/18/2014 | |
|------------------------|--------|
| Benzene: | <0.048 |
| Toluene: | <0.048 |
| Ethylbenzene: | <0.048 |
| Xylenes: | <0.097 |
| Total BTEX: | ND |
| GRO: | <4.8 |
| DRO: | <10 |
| Chloride: | NA |

| S-2 North 9/18/2014 | |
|------------------------|--------|
| Benzene: | <0.047 |
| Toluene: | 0.062 |
| Ethylbenzene: | <0.047 |
| Xylenes: | <0.095 |
| Total BTEX: | 0.06 |
| GRO: | <4.7 |
| DRO: | <9.9 |
| Chloride: | NA |

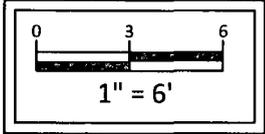
| S-5 North 9/18/2014 | |
|------------------------|--------|
| Benzene: | <0.047 |
| Toluene: | <0.047 |
| Ethylbenzene: | <0.047 |
| Xylenes: | 0.12 |
| Total BTEX: | 0.12 |
| GRO: | <4.7 |
| DRO: | <9.9 |
| Chloride: | 59 |

| S-4 North 9/18/2014 | |
|------------------------|--------|
| Benzene: | <0.047 |
| Toluene: | 0.075 |
| Ethylbenzene: | <0.047 |
| Xylenes: | 0.10 |
| Total BTEX: | 0.18 |
| GRO: | <4.7 |
| DRO: | <10 |
| Chloride: | NA |

| S-3 North 9/18/2014 | |
|------------------------|--------|
| Benzene: | <0.049 |
| Toluene: | <0.049 |
| Ethylbenzene: | <0.049 |
| Xylenes: | <0.098 |
| Total BTEX: | ND |
| GRO: | <4.9 |
| DRO: | <9.9 |
| Chloride: | NA |



| LEGEND: | |
|---------|----------------------|
| | PIPELINE |
| | SAMPLE LOCATION |
| | RELEASE POINT |
| | EXTENT OF EXCAVATION |



NOTE: ALL VALUES ARE REPORTED IN mg/kg

**Lateral K-31 September 2014
Pipeline Releases**
SW 1/4 S9 T25N R6W
Rural Rio Arriba County, NM
36.40734N, 107.47930W

Project No. 7030414G034



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 3A
Site Map with
Soil Analytical Results
North Release**



S-1 Mid-North
9/18/2014

| | |
|---------------|--------|
| Benzene: | <0.048 |
| Toluene: | <0.048 |
| Ethylbenzene: | <0.048 |
| Xylenes: | <0.097 |
| Total BTEX: | ND |
| GRO: | <4.8 |
| DRO: | <10 |

S-2 Mid-North
9/18/2014

| | |
|---------------|--------|
| Benzene: | <0.048 |
| Toluene: | <0.048 |
| Ethylbenzene: | <0.048 |
| Xylenes: | <0.096 |
| Total BTEX: | ND |
| GRO: | <4.8 |
| DRO: | <10 |

S-4 Mid-North
9/16/2014

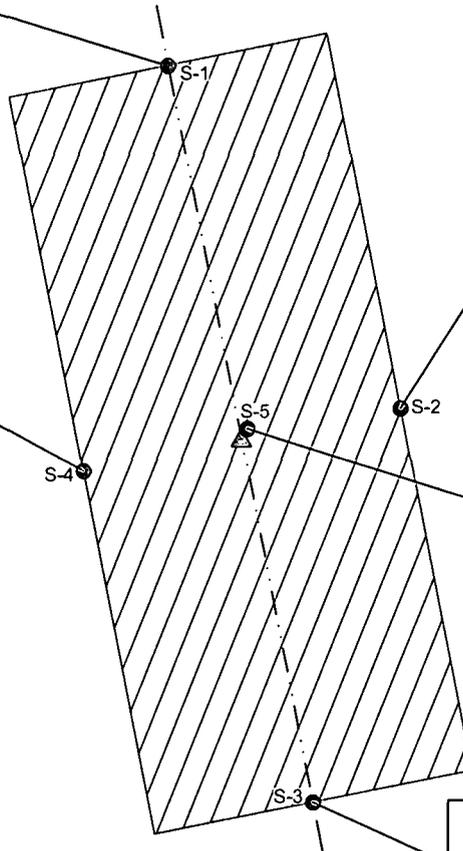
| | |
|---------------|--------|
| Benzene: | <0.049 |
| Toluene: | <0.049 |
| Ethylbenzene: | <0.049 |
| Xylenes: | <0.098 |
| Total BTEX: | ND |
| GRO: | <4.9 |
| DRO: | <9.8 |

S-5 Mid-North
10/2/2014

| | |
|---------------|--------|
| Benzene: | <0.046 |
| Toluene: | <0.046 |
| Ethylbenzene: | <0.046 |
| Xylenes: | <0.093 |
| Total BTEX: | ND |
| GRO: | <4.6 |
| DRO: | <10 |

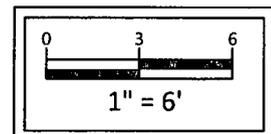
S-3 Mid-North
9/16/2014

| | |
|---------------|--------|
| Benzene: | <0.048 |
| Toluene: | <0.048 |
| Ethylbenzene: | <0.048 |
| Xylenes: | <0.095 |
| Total BTEX: | ND |
| GRO: | <4.8 |
| DRO: | <9.9 |



LEGEND:

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



NOTE: ALL VALUES ARE REPORTED IN mg/kg

**Lateral K-31 September 2014
Pipeline Releases**

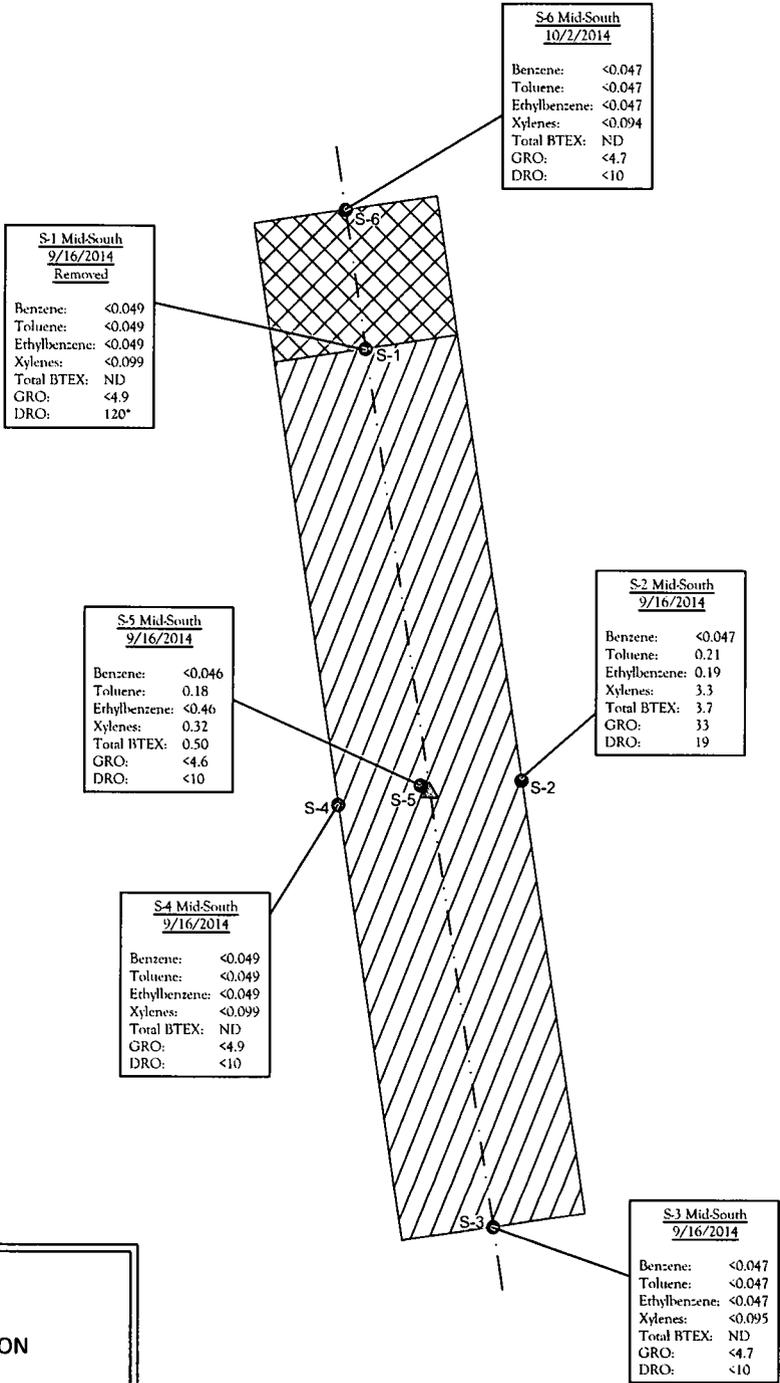
NW $\frac{1}{4}$ and SW $\frac{1}{4}$ S16 T25N R6W
Rural Rio Arriba County, NM
36.39985N, 107.47667W

Project No. 7030414G034



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

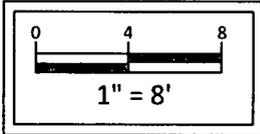
FIGURE 3B
Site Map with
Soil Analytical Results
Mid-North Release



LEGEND:

- — — PIPELINE
- SAMPLE LOCATION
- ▲ RELEASE POINT
- ▨ EXTENT OF EXCAVATION
- ▩ EXTENDED EXCAVATION

NOTE: ALL VALUES ARE REPORTED IN mg/kg

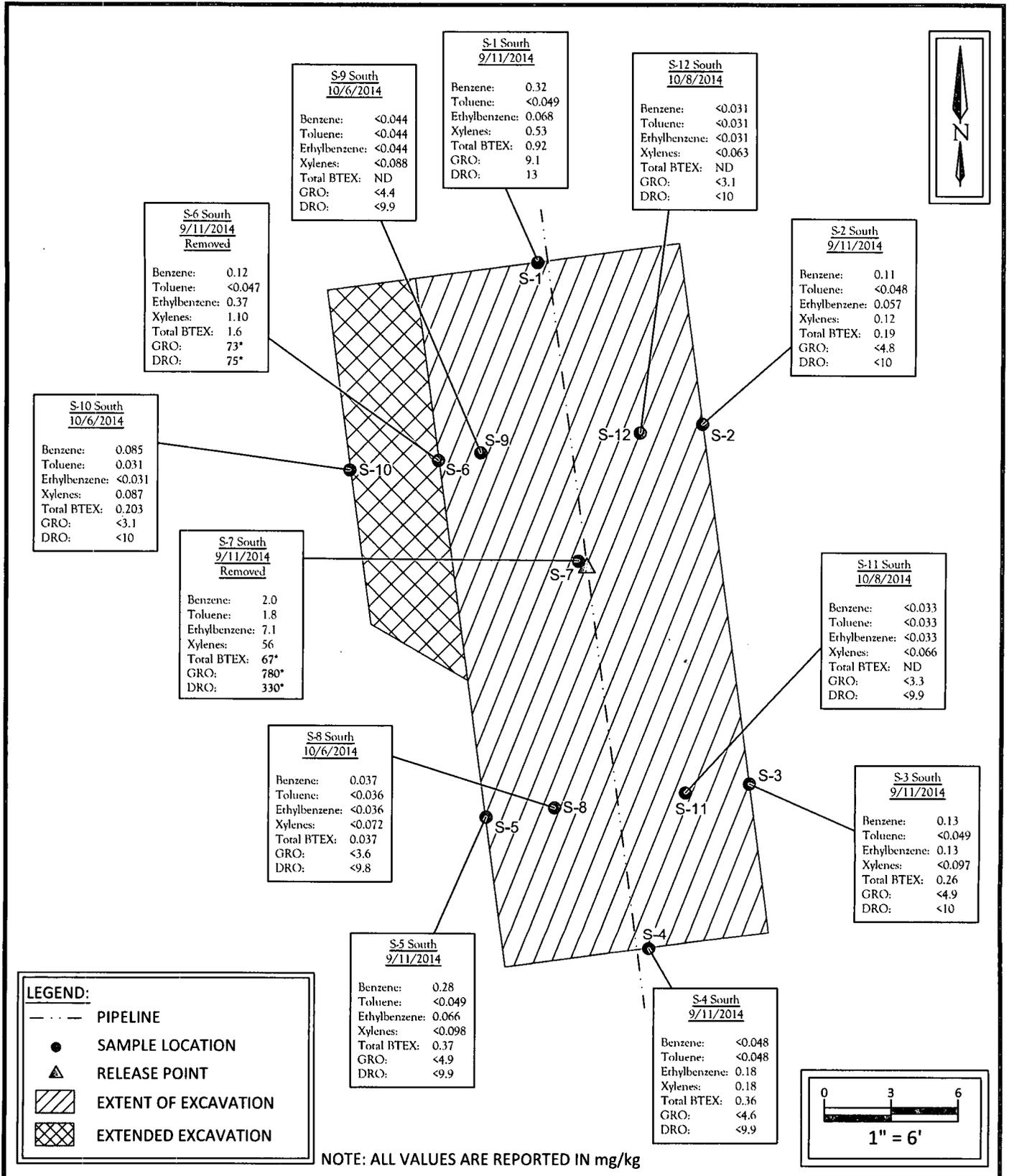


**Lateral K-31 September 2014
Pipeline Releases**
 SW¼ S16 T25N R6W
 Rural Rio Arriba County, NM
 36.39557N, 107.47572W

Project No. 7030414G034

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

FIGURE 3C
Site Map with
Soil Analytical Results
Mid-South Release



Lateral K-31 September 2014
Pipeline Releases
 SW 1/4 S16 T25N R6W
 Rural Rio Arriba County, NM
 36.39408N, 107.47519W

Project No. 7030414G034



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 3D
Site Map with
Soil Analytical Results
South Release

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

97057-0649

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

Oct. 2014

2. Originating Site: Lateral K-31 Release Sites

3. Location of Material (Street Address, City, State or ULSTR):

Sections 16 and 25 T 25N R 6W, GPS 36.39408, -107.47519, 36.39557, -107.47572, 36.39985, -107.47667, 36.40734, -107.47930
Rio Arriba County, NM

4. Source and Description of Waste:

Source: Natural Gas Pipeline Release

Description: Exempt petroleum affected soil from clean-up efforts at pipeline release.

Estimated Volume 200 yd³ bbls Known Volume (to be entered by the operator at the end of the haul) 374 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, 9-16-14, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to complete

Generator Signature

the required testing/sign the Generator Waste Testing Certification.

I, Kendra Runuag, 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 Energy Contractors~~ Riehl, 3D Services, Del Prado, Ritchey,

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: Kendra Runuag

TITLE: Waste Coordinator

DATE: 10/01/14

SIGNATURE: Kendra Runuag
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.:

505-632-0615

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-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: Lateral K-31 Release Sites

3. Location of Material (Street Address, City, State or ULSTR):

Sections 16 and 25 T 25N R 6W, Rio Arriba County, NM

4. Source and Description of Waste:

Source: Natural Gas Pipeline Release

Description: Exempt petroleum affected soil from clean-up efforts at pipeline release.

Estimated Volume 200 yd³ (bbls) Known Volume (to be entered by the operator at the end of the haul) 1635 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 9-30-14, representative for _____ authorize Basin Disposal, Inc. to complete

Generator Signature

the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for _____ 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 transporters on the OCD approved haulers list.

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Basin Disposal, Inc. * Permit #: NM1-005

Address of Facility: 200 Montana Bloomfield, 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: John Volkerd

SIGNATURE: _____

Surface Waste Management Facility Authorized Agent

TITLE: Gen Mgr - VP

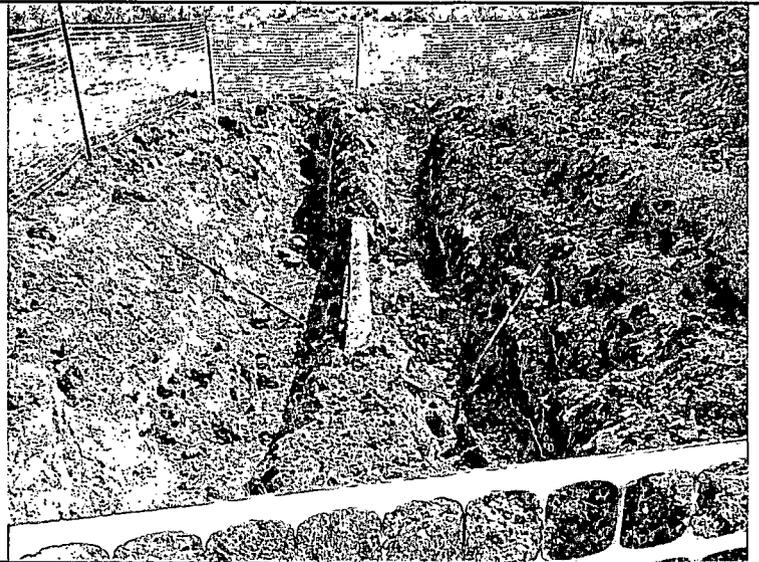
TELEPHONE NO.:

505-632-8936

DATE: 11/25/14

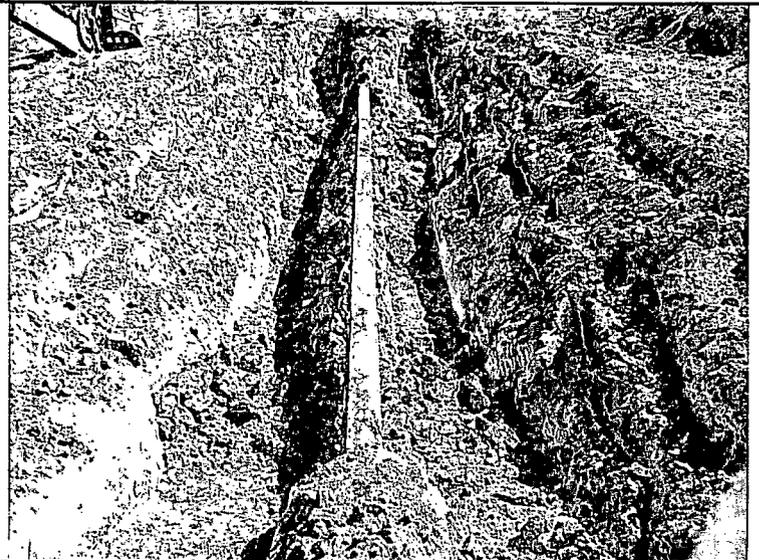
Photograph 1

View of the final North Release excavation, facing northwest.



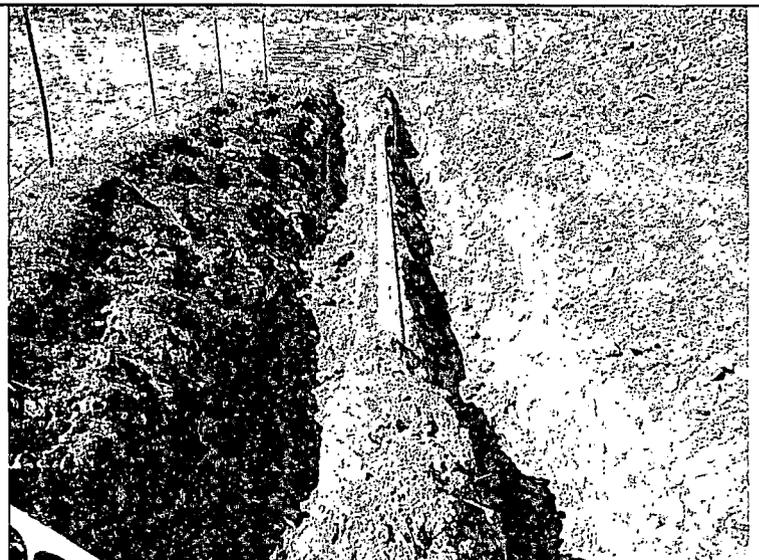
Photograph 2

View of the final Mid-North Release excavation, facing northwest.



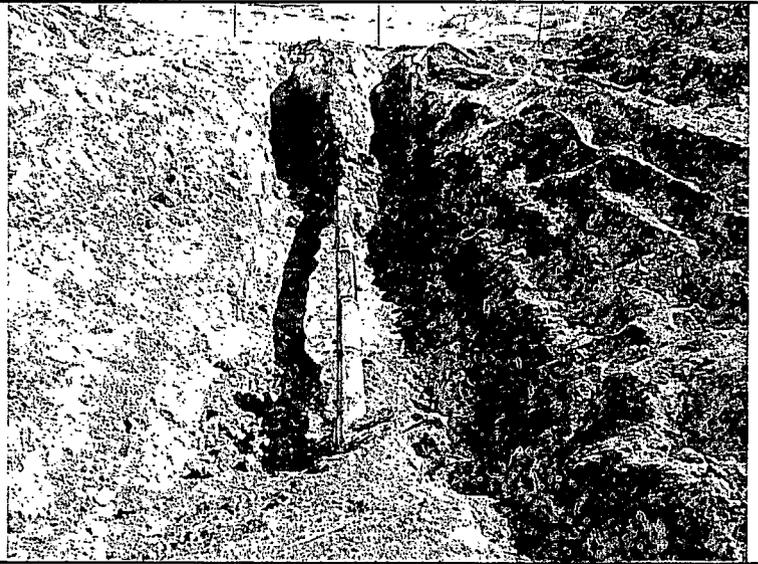
Photograph 3

View of the final Mid-South Release excavation, facing northwest.



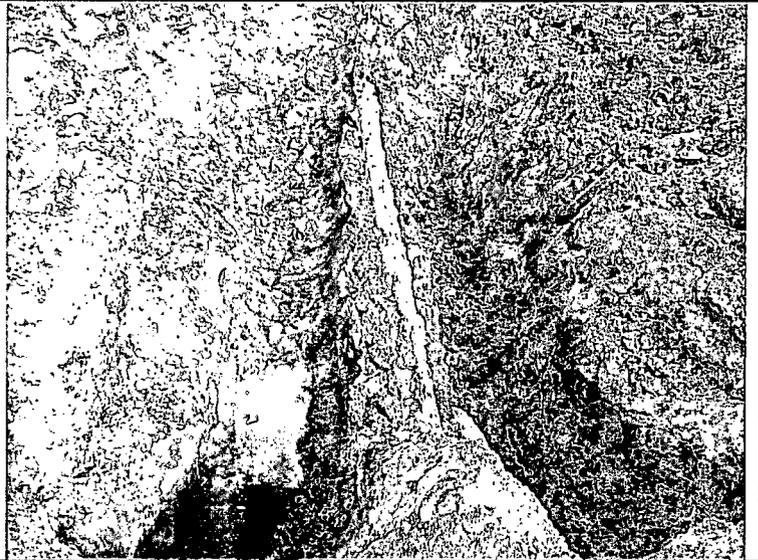
Photograph 4

View of the partially completed South Release excavation following pipeline repair activities, facing northwest.



Photograph 5

View of the final South Release excavation following corrective action activities, facing northwest.



Photograph 6

View of the final South Release excavation following corrective action activities, facing southeast.





TABLE 1
Lateral K-31 "North" 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) | Chloride (mg/kg) |
|---|-----------|---------------------|-----------------|-----------------|----------------------|-----------------|--------------------|-----------------|-----------------|------------------|
| New Mexico Energy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level | | | 10 | NE | NE | NE | 50 | 100 | NE | |
| Excavation Confirmation Samples | | | | | | | | | | |
| S-1 | 9/18/2014 | 2 to 4 | <0.048 | <0.048 | <0.048 | <0.097 | ND | <4.8 | <10 | NA |
| S-2 | 9/18/2014 | 2 to 4 | <0.047 | 0.062 | <0.047 | <0.095 | 0.06 | <4.7 | <9.9 | NA |
| S-3 | 9/18/2014 | 2 to 4 | <0.049 | <0.049 | <0.049 | <0.098 | ND | <4.9 | <9.9 | NA |
| S-4 | 9/18/2014 | 2 to 4 | <0.047 | 0.075 | <0.047 | 0.10 | 0.18 | <4.7 | <10 | NA |
| S-5 | 9/18/2014 | 4 | <0.047 | <0.047 | <0.047 | 0.12 | 0.12 | <4.7 | <9.9 | 59 |
| Stockpile Confirmation Samples | | | | | | | | | | |
| SP-1 | 9/24/2014 | Stockpile | <0.050 | <0.050 | <0.050 | <0.10 | ND | <5.0 | <9.9 | 160 |
| SP-2 | 9/24/2014 | Stockpile | <0.056 | <0.056 | <0.056 | <0.11 | ND | <5.6 | <9.9 | 110 |
| SP-3 | 9/24/2014 | Stockpile | <0.050 | <0.050 | <0.050 | <0.10 | ND | <5.0 | <10 | 180 |

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

NE = Not Established

ND = Not Detected above the Laboratory Reporting Limits

NA = Not analyzed



TABLE 2
Lateral K-31 "Mid-North" 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 | |
| Excavation Confirmation Samples | | | | | | | | | |
| S-1 | 9/18/2014 | 3 to 6 | <0.048 | <0.048 | <0.048 | <0.097 | ND | <4.8 | <10 |
| S-2 | 9/18/2014 | 3 to 6 | <0.048 | <0.048 | <0.048 | <0.096 | ND | <4.8 | <10 |
| S-3 | 9/16/2014 | 3 to 6 | <0.048 | <0.048 | <0.048 | <0.095 | ND | <4.8 | <9.9 |
| S-4 | 9/16/2014 | 3 to 6 | <0.049 | <0.049 | <0.049 | <0.098 | ND | <4.9 | <9.8 |
| S-5 | 10/2/2014 | 6 | <0.046 | <0.046 | <0.046 | <0.093 | ND | <4.6 | <10 |
| Stockpile Confirmation Samples | | | | | | | | | |
| SP-1 | 9/24/2014 | Stockpile | <0.047 | <0.047 | <0.047 | <0.094 | ND | <4.7 | <9.9 |
| SP-2 | 9/24/2014 | Stockpile | <0.054 | <0.054 | <0.054 | <0.11 | ND | <5.4 | <10 |

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

NE = Not Established

ND = Not Detected above the Laboratory Reporting Limits



TABLE 3
Lateral K-31 "Mid-South" 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 | |
| Sample Removed by Excavation | | | | | | | | | |
| S-1 | 9/16/2014 | 3 to 5 | <0.049 | <0.049 | <0.049 | <0.099 | ND | <4.9 | 120 |
| Confirmation Samples | | | | | | | | | |
| S-2 | 9/16/2014 | 3 to 5 | <0.047 | 0.21 | 0.19 | 3.3 | 3.7 | 33 | 19 |
| S-3 | 9/16/2014 | 3 to 5 | <0.047 | <0.047 | <0.047 | <0.095 | ND | <4.7 | <10 |
| S-4 | 9/16/2014 | 3 to 5 | <0.049 | <0.049 | <0.049 | <0.099 | ND | <4.9 | <10 |
| S-5 | 9/16/2014 | 5 | <0.046 | 0.18 | <0.46 | 0.32 | 0.50 | <4.6 | <10 |
| S-6 | 10/2/2014 | 3 to 5 | <0.047 | <0.047 | <0.047 | <0.094 | ND | <4.7 | <10 |
| Stockpile Confirmation Samples | | | | | | | | | |
| SP-1 | 10/2/2014 | Stockpile | <0.047 | <0.047 | <0.047 | <0.094 | ND | 8.1 | 12 |
| SP-2 | 10/2/2014 | Stockpile | <0.047 | <0.047 | <0.047 | <0.094 | ND | <4.7 | <9.9 |

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

NE = Not Established

ND = Not Detected above the Laboratory Reporting Limits



TABLE 4
Lateral K-31 "South" 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-6 | 9/11/2014 | 4 to 8 | 0.12 | <0.047 | 0.37 | 1.10 | 1.6 | 73 | 75 |
| S-7 | 9/11/2014 | 8 | 2.0 | 1.8 | 7.1 | 56 | 67 | 780 | 330 |
| Excavation Confirmation Samples | | | | | | | | | |
| S-1 | 9/11/2014 | 4 to 8 | 0.32 | <0.049 | 0.068 | 0.53 | 0.92 | 9.1 | 13 |
| S-2 | 9/11/2014 | 4 to 8 | 0.11 | <0.048 | 0.057 | 0.12 | 0.19 | <4.8 | <10 |
| S-3 | 9/11/2014 | 4 to 8 | 0.13 | <0.049 | 0.13 | <0.097 | 0.26 | <4.9 | <10 |
| S-4 | 9/11/2014 | 4 to 8 | <0.048 | <0.048 | 0.18 | 0.18 | 0.36 | <4.6 | <9.9 |
| S-5 | 9/11/2014 | 4 to 8 | 0.28 | <0.049 | 0.066 | <0.098 | 0.37 | <4.9 | <9.9 |
| S-8 | 10/6/2014 | 10 to 12 | 0.037 | <0.036 | <0.036 | <0.072 | 0.037 | <3.6 | <9.8 |
| S-9 | 10/6/2014 | 10 to 12 | <0.044 | <0.044 | <0.044 | <0.088 | ND | <4.4 | <9.9 |
| S-10 | 10/6/2014 | 4 to 10 | 0.085 | 0.031 | <0.031 | 0.087 | 0.203 | <3.1 | <10 |
| S-11 | 10/8/2014 | 10 to 12 | <0.033 | <0.033 | <0.033 | <0.066 | ND | <3.3 | <9.9 |
| S-12 | 10/8/2014 | 10 to 12 | <0.031 | <0.031 | <0.031 | <0.063 | ND | <3.1 | <10 |

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

NE = Not Established

ND = Not Detected above the Laboratory Reporting Limits



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

November 04, 2014

Heather Woods
Enterprise Field Services
614 Reilly Ave.
Farmington, NM 87401
TEL: (505) 599-2141
FAX

RE: Enterprise Lateral K-31 North

OrderNo.: 1409949

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 5 sample(s) on 9/19/2014 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued September 25, 2014.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Enterprise Field Services**Client Sample ID:** S-1 North**Project:** Enterprise Lateral K-31 North**Collection Date:** 9/18/2014 1:19:00 PM**Lab ID:** 1409949-001**Matrix:** SOIL**Received Date:** 9/19/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 9/20/2014 7:37:32 AM | 15396 |
| Surr: DNOP | 87.1 | 57.9-140 | | %REC | 1 | 9/20/2014 7:37:32 AM | 15396 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 9/22/2014 2:15:08 PM | 15403 |
| Surr: BFB | 80.3 | 80-120 | | %REC | 1 | 9/22/2014 2:15:08 PM | 15403 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.048 | | mg/Kg | 1 | 9/22/2014 2:15:08 PM | 15403 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 9/22/2014 2:15:08 PM | 15403 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 9/22/2014 2:15:08 PM | 15403 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 9/22/2014 2:15:08 PM | 15403 |
| Surr: 4-Bromofluorobenzene | 94.3 | 80-120 | | %REC | 1 | 9/22/2014 2:15:08 PM | 15403 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Analytical Report

Lab Order 1409949

Date Reported: 11/4/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

Client Sample ID: S-2 North

Project: Enterprise Lateral K-31 North

Collection Date: 9/18/2014 1:24:00 PM

Lab ID: 1409949-002

Matrix: SOIL

Received Date: 9/19/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 9/20/2014 8:41:39 AM | 15396 |
| Surr: DNOP | 89.3 | 57.9-140 | | %REC | 1 | 9/20/2014 8:41:39 AM | 15396 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 9/22/2014 10:17:24 PM | 15403 |
| Surr: BFB | 83.5 | 80-120 | | %REC | 1 | 9/22/2014 10:17:24 PM | 15403 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.047 | | mg/Kg | 1 | 9/22/2014 10:17:24 PM | 15403 |
| Toluene | 0.062 | 0.047 | | mg/Kg | 1 | 9/22/2014 10:17:24 PM | 15403 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 9/22/2014 10:17:24 PM | 15403 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 9/22/2014 10:17:24 PM | 15403 |
| Surr: 4-Bromofluorobenzene | 101 | 80-120 | | %REC | 1 | 9/22/2014 10:17:24 PM | 15403 |

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 |
| | 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 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S Spike Recovery outside accepted recovery limits | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services
Project: Enterprise Lateral K-31 North
Lab ID: 1409949-003

Client Sample ID: S-3 North
Collection Date: 9/18/2014 1:31:00 PM
Matrix: SOIL
Received Date: 9/19/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 9/20/2014 9:02:57 AM | 15396 |
| Surr: DNOP | 86.3 | 57.9-140 | | %REC | 1 | 9/20/2014 9:02:57 AM | 15396 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 9/22/2014 4:45:52 PM | 15403 |
| Surr: BFB | 84.1 | 80-120 | | %REC | 1 | 9/22/2014 4:45:52 PM | 15403 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.049 | | mg/Kg | 1 | 9/22/2014 4:45:52 PM | 15403 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 9/22/2014 4:45:52 PM | 15403 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 9/22/2014 4:45:52 PM | 15403 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 9/22/2014 4:45:52 PM | 15403 |
| Surr: 4-Bromofluorobenzene | 104 | 80-120 | | %REC | 1 | 9/22/2014 4:45:52 PM | 15403 |

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 |
| | 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 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S Spike Recovery outside accepted recovery limits | |

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Enterprise Field Services**Client Sample ID:** S-4 North**Project:** Enterprise Lateral K-31 North**Collection Date:** 9/18/2014 1:34:00 PM**Lab ID:** 1409949-004**Matrix:** SOIL**Received Date:** 9/19/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 9/20/2014 9:24:19 AM | 15396 |
| Surr: DNOP | 88.4 | 57.9-140 | | %REC | 1 | 9/20/2014 9:24:19 AM | 15396 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 9/22/2014 5:16:10 PM | 15403 |
| Surr: BFB | 90.1 | 80-120 | | %REC | 1 | 9/22/2014 5:16:10 PM | 15403 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.047 | | mg/Kg | 1 | 9/22/2014 5:16:10 PM | 15403 |
| Toluene | 0.075 | 0.047 | | mg/Kg | 1 | 9/22/2014 5:16:10 PM | 15403 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 9/22/2014 5:16:10 PM | 15403 |
| Xylenes, Total | 0.10 | 0.095 | | mg/Kg | 1 | 9/22/2014 5:16:10 PM | 15403 |
| Surr: 4-Bromofluorobenzene | 107 | 80-120 | | %REC | 1 | 9/22/2014 5:16:10 PM | 15403 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409949

04-Nov-14

Client: Enterprise Field Services
Project: Enterprise Lateral K-31 North

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-15468 | SampType: | MBLK | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | PBS | Batch ID: | 15468 | RunNo: | 21418 | | | | | |
| Prep Date: | 9/23/2014 | Analysis Date: | 9/23/2014 | SeqNo: | 625609 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-15468 | SampType: | LCS | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | LCSS | Batch ID: | 15468 | RunNo: | 21418 | | | | | |
| Prep Date: | 9/23/2014 | Analysis Date: | 9/23/2014 | SeqNo: | 625610 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 91.4 | 90 | 110 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409949

04-Nov-14

Client: Enterprise Field Services
Project: Enterprise Lateral K-31 North

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | MB-15396 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 15396 | RunNo: | 21269 | | | | | |
| Prep Date: | 9/19/2014 | Analysis Date: | 9/19/2014 | SeqNo: | 621919 | 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 | | 94.4 | 57.9 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | LCS-15396 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 15396 | RunNo: | 21269 | | | | | |
| Prep Date: | 9/19/2014 | Analysis Date: | 9/19/2014 | SeqNo: | 621920 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 180 | 10 | 50.00 | 0 | 354 | 68.6 | 130 | | | S |
| Surr: DNOP | 15 | | 5.000 | | 292 | 57.9 | 140 | | | S |

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | LCS-15396 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 15396 | RunNo: | 21269 | | | | | |
| Prep Date: | 9/19/2014 | Analysis Date: | 9/19/2014 | SeqNo: | 622111 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 53 | 10 | 50.00 | 0 | 107 | 68.6 | 130 | | | |
| Surr: DNOP | 5.1 | | 5.000 | | 103 | 57.9 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|-----------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | 1409949-001AMS | SampType: | MS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | S-1 North | Batch ID: | 15396 | RunNo: | 21309 | | | | | |
| Prep Date: | 9/19/2014 | Analysis Date: | 9/20/2014 | SeqNo: | 623192 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 45 | 10 | 50.35 | 0 | 89.7 | 40.1 | 152 | | | |
| Surr: DNOP | 4.4 | | 5.035 | | 86.7 | 57.9 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|------------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | 1409949-001AMSD | SampType: | MSD | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | S-1 North | Batch ID: | 15396 | RunNo: | 21309 | | | | | |
| Prep Date: | 9/19/2014 | Analysis Date: | 9/20/2014 | SeqNo: | 623193 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 48 | 10 | 49.90 | 0 | 95.6 | 40.1 | 152 | 5.42 | 32.1 | |
| Surr: DNOP | 4.6 | | 4.990 | | 92.0 | 57.9 | 140 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409949

04-Nov-14

Client: Enterprise Field Services
Project: Enterprise Lateral K-31 North

| | | | | | | | | | | |
|-------------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | MB-15403 | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 15403 | RunNo: | 21348 | | | | | |
| Prep Date: | 9/19/2014 | Analysis Date: | 9/22/2014 | SeqNo: | 623436 | 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 | 890 | | 1000 | | 88.9 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | LCS-15403 | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 15403 | RunNo: | 21348 | | | | | |
| Prep Date: | 9/19/2014 | Analysis Date: | 9/22/2014 | SeqNo: | 623441 | 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 | 90.5 | 65.8 | 139 | | | |
| Surr: BFB | 910 | | 1000 | | 91.0 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|-----------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | 1409949-001AMS | SampType: | MS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | S-1 North | Batch ID: | 15403 | RunNo: | 21348 | | | | | |
| Prep Date: | 9/19/2014 | Analysis Date: | 9/22/2014 | SeqNo: | 623508 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 25 | 4.8 | 24.20 | 0 | 105 | 71.8 | 132 | | | |
| Surr: BFB | 950 | | 968.1 | | 97.7 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|------------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | 1409949-001AMSD | SampType: | MSD | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | S-1 North | Batch ID: | 15403 | RunNo: | 21348 | | | | | |
| Prep Date: | 9/19/2014 | Analysis Date: | 9/22/2014 | SeqNo: | 623517 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 26 | 4.8 | 24.13 | 0 | 107 | 71.8 | 132 | 1.74 | 20 | |
| Surr: BFB | 940 | | 965.3 | | 97.8 | 80 | 120 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409949

04-Nov-14

Client: Enterprise Field Services
Project: Enterprise Lateral K-31 North

| Sample ID MB-15403 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 15403 | RunNo: 21348 | | | | | | | | |
| Prep Date: 9/19/2014 | Analysis Date: 9/22/2014 | SeqNo: 623564 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.050 | | | | | | | | |
| 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-15403 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 15403 | RunNo: 21348 | | | | | | | | |
| Prep Date: 9/19/2014 | Analysis Date: 9/22/2014 | SeqNo: 623565 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.92 | 0.050 | 1.000 | 0 | 91.7 | 80 | 120 | | | |
| Toluene | 0.92 | 0.050 | 1.000 | 0 | 91.6 | 80 | 120 | | | |
| Ethylbenzene | 0.93 | 0.050 | 1.000 | 0 | 92.7 | 80 | 120 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 97.2 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 111 | 80 | 120 | | | |

| Sample ID 1409949-002AMS | SampType: MS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|---------------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: S-2 North | Batch ID: 15403 | RunNo: 21348 | | | | | | | | |
| Prep Date: 9/19/2014 | Analysis Date: 9/22/2014 | SeqNo: 623577 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.82 | 0.047 | 0.9434 | 0.03974 | 83.2 | 77.4 | 142 | | | |
| Toluene | 0.89 | 0.047 | 0.9434 | 0.06206 | 88.2 | 77 | 132 | | | |
| Ethylbenzene | 0.85 | 0.047 | 0.9434 | 0 | 90.5 | 77.6 | 134 | | | |
| Xylenes, Total | 2.7 | 0.094 | 2.830 | 0.1089 | 93.1 | 77.4 | 132 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 0.9434 | | 114 | 80 | 120 | | | |

| Sample ID 1409949-002AMSD | SampType: MSD | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: S-2 North | Batch ID: 15403 | RunNo: 21348 | | | | | | | | |
| Prep Date: 9/19/2014 | Analysis Date: 9/22/2014 | SeqNo: 623578 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.91 | 0.047 | 0.9416 | 0.03974 | 92.2 | 77.4 | 142 | 9.56 | 20 | |
| Toluene | 0.96 | 0.047 | 0.9416 | 0.06206 | 95.8 | 77 | 132 | 7.55 | 20 | |
| Ethylbenzene | 0.94 | 0.047 | 0.9416 | 0 | 100 | 77.6 | 134 | 9.99 | 20 | |
| Xylenes, Total | 3.0 | 0.094 | 2.825 | 0.1089 | 102 | 77.4 | 132 | 8.53 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.83 | | 0.9416 | | 87.8 | 80 | 120 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Enterprise

Work Order Number: 1409949

RcptNo: 1

Received by/date: AT 09/19/14

Logged By: Anne Thorne 9/19/2014 7:00:00 AM *Anne Thorne*

Completed By: Anne Thorne 9/19/2014 *Anne Thorne*

Reviewed By: *MG* 09/19/14

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
(Note discrepancies on chain of custody)
- 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? Yes No
(If no, notify customer for authorization.)

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 | 1.9 | Good | Yes | | | |

Chain-of-Custody Record

Client: Enterprise Field Services

Mailing Address: 614 Reilly Ave
Farmington, NM 87401

Phone #: (505) 716-2787

email or Fax#:

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation
 NELAP Other _____

EDD (Type) _____

Turn-Around Time:
 Standard Rush 3-Day 9/23

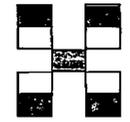
Project Name:
Enterprise Labord K-31 North

Project #:

Project Manager:
Heather Woods

Sampler: Heather Woods
 On Ice: Yes No

Sample Temperature: 19



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. | BTEX + MTBE + TPH (8021) | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO / DRO / M) | TPH (Method 418.1) | EDB (Method 504.1) | PAH's (8310 or 8270 SIMS) | RCRA 8 Metals | Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | Air Rubbles (Y or N) | |
|--|------|--------|-------------------|----------------------|-------------------|-----------------|--------------------------|------------------------------|---------------------------|--------------------|--------------------|---------------------------|---------------|--|------------------------------|-------------|-----------------|----------------------|--|
| 9/18/14 | 1319 | Soil | S-1 North | 1-4oz | — | 1409949 -001 | X | X | | | | | | | | | | | |
| 9/18/14 | 1324 | Soil | S-2 North | 1-4oz | — | -002 | X | X | | | | | | | | | | | |
| 9/18/14 | 1331 | Soil | S-3 North | 1-4oz | — | -003 | X | X | | | | | | | | | | | |
| 9/18/14 | 1334 | Soil | S-4 North | 1-4oz | — | -004 | X | X | | | | | | | | | | | |
| 9/18/14 | 1329 | Soil | S-5 North | 1-4oz | — | -005 | X | X | | | | | | | | | | | |
| Date: _____ Time: _____ Relinquished by: _____ Received by: _____ Date: _____ Time: _____ Remarks: _____ | | | | | | | | | | | | | | | | | | | |

Date: 9/18/14 Time: 1840 Relinquished by: Heather M. Woods
 Date: 9/18/14 Time: 1857 Relinquished by: Mustafa Walleh

Received by: Mustafa Walleh Date: 9/18/14 Time: 1840
 Received by: Tom Long Date: 9/23/14 Time: 0700

Remarks: Direct bill to Enterprise from Heather on 10/31/14. Attn: Tom Long
Chloride add to sample S-5 per Heather on 9/23/14 KMS

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

November 04, 2014

Heather Woods
APEX AZTEC
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (505) 716-2787
FAX (505) 334-5204

RE: Lateral K-31 North

OrderNo.: 1409C44

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 3 sample(s) on 9/25/2014 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued September 30, 2014.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX AZTEC

Client Sample ID: SP-1 North

Project: Lateral K-31 North

Collection Date: 9/24/2014 1:50:00 PM

Lab ID: 1409C44-001

Matrix: MEOH (SOIL)

Received Date: 9/25/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 9/26/2014 8:00:15 PM | 15500 |
| Surr: DNOP | 104 | 57.9-140 | | %REC | 1 | 9/26/2014 8:00:15 PM | 15500 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 9/25/2014 11:07:53 PM | R21449 |
| Surr: BFB | 90.1 | 80-120 | | %REC | 1 | 9/25/2014 11:07:53 PM | R21449 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 9/25/2014 11:07:53 PM | R21449 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 9/25/2014 11:07:53 PM | R21449 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 9/25/2014 11:07:53 PM | R21449 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 9/25/2014 11:07:53 PM | R21449 |
| Surr: 4-Bromofluorobenzene | 93.3 | 80-120 | | %REC | 1 | 9/25/2014 11:07:53 PM | R21449 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: SRM |
| Chloride | 160 | 30 | | mg/Kg | 20 | 9/25/2014 4:24:48 PM | 15510 |

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 |
| | 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 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S Spike Recovery outside accepted recovery limits | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX AZTEC Client Sample ID: SP-2 North
 Project: Lateral K-31 North Collection Date: 9/24/2014 2:15:00 PM
 Lab ID: 1409C44-002 Matrix: MEOH (SOIL) Received Date: 9/25/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 9/26/2014 8:30:36 PM | 15500 |
| Surr: DNOP | 97.5 | 57.9-140 | | %REC | 1 | 9/26/2014 8:30:36 PM | 15500 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.6 | | mg/Kg | 1 | 9/25/2014 11:36:24 PM | R21449 |
| Surr: BFB | 95.4 | 80-120 | | %REC | 1 | 9/25/2014 11:36:24 PM | R21449 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.056 | | mg/Kg | 1 | 9/25/2014 11:36:24 PM | R21449 |
| Toluene | ND | 0.056 | | mg/Kg | 1 | 9/25/2014 11:36:24 PM | R21449 |
| Ethylbenzene | ND | 0.056 | | mg/Kg | 1 | 9/25/2014 11:36:24 PM | R21449 |
| Xylenes, Total | ND | 0.11 | | mg/Kg | 1 | 9/25/2014 11:36:24 PM | R21449 |
| Surr: 4-Bromofluorobenzene | 94.0 | 80-120 | | %REC | 1 | 9/25/2014 11:36:24 PM | R21449 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: SRM |
| Chloride | 110 | 30 | | mg/Kg | 20 | 9/25/2014 4:49:37 PM | 15510 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX AZTEC Client Sample ID: SP-3 North
 Project: Lateral K-31 North Collection Date: 9/24/2014 2:28:00 PM
 Lab ID: 1409C44-003 Matrix: MEOH (SOIL) Received Date: 9/25/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 9/29/2014 11:29:05 AM | 15500 |
| Surr: DNOP | 96.5 | 57.9-140 | | %REC | 1 | 9/29/2014 11:29:05 AM | 15500 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 9/26/2014 12:04:48 AM | R21449 |
| Surr: BFB | 88.1 | 80-120 | | %REC | 1 | 9/26/2014 12:04:48 AM | R21449 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 9/26/2014 12:04:48 AM | R21449 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 9/26/2014 12:04:48 AM | R21449 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 9/26/2014 12:04:48 AM | R21449 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 9/26/2014 12:04:48 AM | R21449 |
| Surr: 4-Bromofluorobenzene | 91.6 | 80-120 | | %REC | 1 | 9/26/2014 12:04:48 AM | R21449 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: SRM |
| Chloride | 180 | 30 | | mg/Kg | 20 | 9/25/2014 5:14:26 PM | 15510 |

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 |
| 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 |
| O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409C44

04-Nov-14

Client: APEX AZTEC
Project: Lateral K-31 North

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-15510 | SampType: | MBLK | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | PBS | Batch ID: | 15510 | RunNo: | 21476 | | | | | |
| Prep Date: | 9/25/2014 | Analysis Date: | 9/25/2014 | SeqNo: | 627974 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-15510 | SampType: | LCS | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | LCSS | Batch ID: | 15510 | RunNo: | 21476 | | | | | |
| Prep Date: | 9/25/2014 | Analysis Date: | 9/25/2014 | SeqNo: | 627975 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.7 | 90 | 110 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409C44
04-Nov-14

Client: APEX AZTEC
Project: Lateral K-31 North

| | | | | | | | | | | |
|-----------------------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | MB-15500 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 15500 | RunNo: | 21436 | | | | | |
| Prep Date: | 9/25/2014 | Analysis Date: | 9/25/2014 | SeqNo: | 626728 | 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 | 9.9 | | 10.00 | | 99.2 | 57.9 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | LCS-15500 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 15500 | RunNo: | 21436 | | | | | |
| Prep Date: | 9/25/2014 | Analysis Date: | 9/25/2014 | SeqNo: | 626795 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 57 | 10 | 50.00 | 0 | 113 | 68.6 | 130 | | | |
| Surr: DNOP | 4.8 | | 5.000 | | 96.5 | 57.9 | 140 | | | |

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409C44

04-Nov-14

Client: APEX AZTEC
Project: Lateral K-31 North

| | | | | | | | | | | |
|-------------------------------|-------------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID | MB-15490 MK | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | R21449 | RunNo: | 21449 | | | | | |
| Prep Date: | | Analysis Date: | 9/25/2014 | SeqNo: | 627596 | 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 | 880 | | 1000 | | 87.7 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|--------------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID | LCS-15490 MK | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | R21449 | RunNo: | 21449 | | | | | |
| Prep Date: | | Analysis Date: | 9/25/2014 | SeqNo: | 627597 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 29 | 5.0 | 25.00 | 0 | 116 | 65.8 | 139 | | | |
| Surr: BFB | 980 | | 1000 | | 98.0 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409C44

04-Nov-14

Client: APEX AZTEC
Project: Lateral K-31 North

| | | | | | | | | | | |
|----------------------------|--------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-15490 MK | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | PBS | Batch ID: | R21449 | RunNo: | 21449 | | | | | |
| Prep Date: | | Analysis Date: | 9/25/2014 | SeqNo: | 627632 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.050 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.91 | | 1.000 | | 91.4 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|---------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-15490 MK | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | LCSS | Batch ID: | R21449 | RunNo: | 21449 | | | | | |
| Prep Date: | | Analysis Date: | 9/25/2014 | SeqNo: | 627633 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.050 | 1.000 | 0 | 102 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 100 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 104 | 80 | 120 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.000 | 0 | 103 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 100 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1409C44

RcptNo: 1

| | | |
|-------------------|--------------------|---|
| Received by/date: | <i>[Signature]</i> | 09/25/14 |
| Logged By: | Lindsay Mangin | 9/25/2014 7:00:00 AM <i>[Signature]</i> |
| Completed By: | Lindsay Mangin | 9/25/2014 9:09:02 AM <i>[Signature]</i> |
| Reviewed By: | CS | 09/25/14 |

Chain of Custody

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

Log In

- Was an attempt made to cool the samples? Yes No NA
- Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- Sample(s) in proper container(s)? Yes No
- Sufficient sample volume for indicated test(s)? Yes No
- Are samples (except VOA and ONG) properly preserved? Yes No
- Was preservative added to bottles? Yes No NA
- VOA vials have zero headspace? Yes No No VOA Vials
- Were any sample containers received broken? Yes No
- Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No
- Are matrices correctly identified on Chain of Custody? Yes No
- Is it clear what analyses were requested? Yes No
- 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)

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

| | |
|----------------------------|--|
| Person Notified: _____ | Date: _____ |
| By Whom: _____ | Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> 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 | 1.5 | Good | Yes | | | |



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

November 04, 2014

Heather Woods
Enterprise Field Services
614 Reilly Ave.
Farmington, NM 87401
TEL: (505) 599-2141
FAX

RE: Enterprise Lateral K-31 Mid-North

OrderNo.: 1409950

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 5 sample(s) on 9/19/2014 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued September 23, 2014.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services **Client Sample ID:** S-1 Mid-North
Project: Enterprise Lateral K-31 Mid-North **Collection Date:** 9/18/2014 2:02:00 PM
Lab ID: 1409950-001 **Matrix:** SOIL **Received Date:** 9/19/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 9/20/2014 10:07:06 AM | 15396 |
| Surr: DNOP | 112 | 57.9-140 | | %REC | 1 | 9/20/2014 10:07:06 AM | 15396 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 9/22/2014 5:46:18 PM | 15403 |
| Surr: BFB | 89.1 | 80-120 | | %REC | 1 | 9/22/2014 5:46:18 PM | 15403 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.048 | | mg/Kg | 1 | 9/22/2014 5:46:18 PM | 15403 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 9/22/2014 5:46:18 PM | 15403 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 9/22/2014 5:46:18 PM | 15403 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 9/22/2014 5:46:18 PM | 15403 |
| Surr: 4-Bromofluorobenzene | 111 | 80-120 | | %REC | 1 | 9/22/2014 5:46:18 PM | 15403 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

Client Sample ID: S-2 Mid-North

Project: Enterprise Lateral K-31 Mid-North

Collection Date: 9/18/2014 2:06:00 PM

Lab ID: 1409950-002

Matrix: SOIL

Received Date: 9/19/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 9/20/2014 10:28:32 AM | 15396 |
| Surr: DNOP | 107 | 57.9-140 | | %REC | 1 | 9/20/2014 10:28:32 AM | 15396 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 9/22/2014 6:16:28 PM | 15403 |
| Surr: BFB | 86.6 | 80-120 | | %REC | 1 | 9/22/2014 6:16:28 PM | 15403 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.048 | | mg/Kg | 1 | 9/22/2014 6:16:28 PM | 15403 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 9/22/2014 6:16:28 PM | 15403 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 9/22/2014 6:16:28 PM | 15403 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 9/22/2014 6:16:28 PM | 15403 |
| Surr: 4-Bromofluorobenzene | 106 | 80-120 | | %REC | 1 | 9/22/2014 6:16:28 PM | 15403 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

Client Sample ID: S-3 Mid-North

Project: Enterprise Lateral K-31 Mid-North

Collection Date: 9/18/2014 2:10:00 PM

Lab ID: 1409950-003

Matrix: SOIL

Received Date: 9/19/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 9/20/2014 10:50:06 AM | 15396 |
| Surr: DNOP | 108 | 57.9-140 | | %REC | 1 | 9/20/2014 10:50:06 AM | 15396 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 9/22/2014 6:46:34 PM | 15403 |
| Surr: BFB | 79.0 | 80-120 | S | %REC | 1 | 9/22/2014 6:46:34 PM | 15403 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.048 | | mg/Kg | 1 | 9/22/2014 6:46:34 PM | 15403 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 9/22/2014 6:46:34 PM | 15403 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 9/22/2014 6:46:34 PM | 15403 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 9/22/2014 6:46:34 PM | 15403 |
| Surr: 4-Bromofluorobenzene | 94.0 | 80-120 | | %REC | 1 | 9/22/2014 6:46:34 PM | 15403 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Enterprise Field Services**Client Sample ID:** S-4 Mid-North**Project:** Enterprise Lateral K-31 Mid-North**Collection Date:** 9/18/2014 2:14:00 PM**Lab ID:** 1409950-004**Matrix:** SOIL**Received Date:** 9/19/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 9/20/2014 11:11:29 AM | 15396 |
| Surr: DNOP | 108 | 57.9-140 | | %REC | 1 | 9/20/2014 11:11:29 AM | 15396 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 9/22/2014 11:17:32 PM | 15403 |
| Surr: BFB | 84.7 | 80-120 | | %REC | 1 | 9/22/2014 11:17:32 PM | 15403 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.049 | | mg/Kg | 1 | 9/22/2014 11:17:32 PM | 15403 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 9/22/2014 11:17:32 PM | 15403 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 9/22/2014 11:17:32 PM | 15403 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 9/22/2014 11:17:32 PM | 15403 |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | | %REC | 1 | 9/22/2014 11:17:32 PM | 15403 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

Client Sample ID: S-5 Mid-North

Project: Enterprise Lateral K-31 Mid-North

Collection Date: 9/18/2014 2:19:00 PM

Lab ID: 1409950-005

Matrix: SOIL

Received Date: 9/19/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 9/20/2014 11:32:56 AM | 15396 |
| Surr: DNOP | 113 | 57.9-140 | | %REC | 1 | 9/20/2014 11:32:56 AM | 15396 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 9/22/2014 11:47:40 PM | 15403 |
| Surr: BFB | 75.3 | 80-120 | S | %REC | 1 | 9/22/2014 11:47:40 PM | 15403 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.046 | | mg/Kg | 1 | 9/22/2014 11:47:40 PM | 15403 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 9/22/2014 11:47:40 PM | 15403 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 9/22/2014 11:47:40 PM | 15403 |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 9/22/2014 11:47:40 PM | 15403 |
| Surr: 4-Bromofluorobenzene | 86.4 | 80-120 | | %REC | 1 | 9/22/2014 11:47:40 PM | 15403 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409950

04-Nov-14

Client: Enterprise Field Services
Project: Enterprise Lateral K-31 Mid-North

| Sample ID: MB-15396 | SampType: MBLK | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 15396 | RunNo: 21269 | | | | | | | | |
| Prep Date: 9/19/2014 | Analysis Date: 9/19/2014 | SeqNo: 621919 | 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 | | 94.4 | 57.9 | 140 | | | |

| Sample ID: LCS-15396 | SampType: LCS | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 15396 | RunNo: 21269 | | | | | | | | |
| Prep Date: 9/19/2014 | Analysis Date: 9/19/2014 | SeqNo: 621920 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 180 | 10 | 50.00 | 0 | 354 | 68.6 | 130 | | | S |
| Surr: DNOP | 15 | | 5.000 | | 292 | 57.9 | 140 | | | S |

| Sample ID: LCS-15396 | SampType: LCS | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 15396 | RunNo: 21269 | | | | | | | | |
| Prep Date: 9/19/2014 | Analysis Date: 9/19/2014 | SeqNo: 622111 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 53 | 10 | 50.00 | 0 | 107 | 68.6 | 130 | | | |
| Surr: DNOP | 5.1 | | 5.000 | | 103 | 57.9 | 140 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409950

04-Nov-14

Client: Enterprise Field Services
Project: Enterprise Lateral K-31 Mid-North

| Sample ID MB-15403 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 15403 | RunNo: 21348 | | | | | | | | |
| Prep Date: 9/19/2014 | Analysis Date: 9/22/2014 | SeqNo: 623436 | | | 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 | 890 | | 1000 | | 88.9 | 80 | 120 | | | |

| Sample ID LCS-15403 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 15403 | RunNo: 21348 | | | | | | | | |
| Prep Date: 9/19/2014 | Analysis Date: 9/22/2014 | SeqNo: 623441 | | | 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 | 90.5 | 65.8 | 139 | | | |
| Surr: BFB | 910 | | 1000 | | 91.0 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409950

04-Nov-14

Client: Enterprise Field Services
Project: Enterprise Lateral K-31 Mid-North

| | | | | | | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-15403 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | PBS | Batch ID: | 15403 | RunNo: | 21348 | | | | | |
| Prep Date: | 9/19/2014 | Analysis Date: | 9/22/2014 | SeqNo: | 623564 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.050 | | | | | | | | |
| 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-15403 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | LCSS | Batch ID: | 15403 | RunNo: | 21348 | | | | | |
| Prep Date: | 9/19/2014 | Analysis Date: | 9/22/2014 | SeqNo: | 623565 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.92 | 0.050 | 1.000 | 0 | 91.7 | 80 | 120 | | | |
| Toluene | 0.92 | 0.050 | 1.000 | 0 | 91.6 | 80 | 120 | | | |
| Ethylbenzene | 0.93 | 0.050 | 1.000 | 0 | 92.7 | 80 | 120 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 97.2 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 111 | 80 | 120 | | | |

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

Client Name: **Enterprise**

Work Order Number: **1409950**

RcptNo: **1**

Received by/date: AT 09/19/14

Logged By: **Anne Thorne** 9/19/2014 7:00:00 AM *Anne Thorne*

Completed By: **Anne Thorne** 9/19/2014 *Anne Thorne*

Reviewed By: *mg* 09/19/14

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 | 1.9 | Good | Yes | | | |

Chain-of-Custody Record

Client: Enterprise Field Services

Mailing Address: 614 Reilly Ave
Farmington, NM 87401

Phone #: (505) 716-2787

email or Fax#:

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation

NELAP Other _____

EDD (Type) _____

Turn-Around Time:

Standard Rush 3-Day 9/23

Project Name:

Enterprise Lateral K-31 Mid-North

Project #:

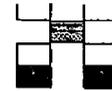
Project Manager:

Heather Woods

Sampler: H. Woods

On Ice: Yes No

Sample Temperature: 1.07



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. | BTEX + MEK (8021) | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO / DRO / 8021) | TPH (Method 418.1) | EDB (Method 504.1) | PAH's (8310 or 8270 SIMS) | RCRA 8 Metals | Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) |
|---------|------|--------|-------------------|----------------------|-------------------|----------|-------------------|------------------------------|--|--------------------|--------------------|---------------------------|---------------|--|------------------------------|-------------|-----------------|
| 9/18/14 | 1402 | Soil | S-1 Mid-North | 1-4oz | — | 14019501 | X | X | | | | | | | | | |
| 9/18/14 | 1406 | Soil | S-2 Mid-North | 1-4oz | — | 14019502 | X | X | | | | | | | | | |
| 9/18/14 | 1410 | Soil | S-3 Mid-North | 1-4oz | — | 14019503 | X | X | | | | | | | | | |
| 9/18/14 | 1414 | Soil | S-4 Mid-North | 1-4oz | — | 14019504 | X | X | | | | | | | | | |
| 9/18/14 | 1419 | Soil | S-5 Mid-North | 1-4oz | — | 14019505 | X | X | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

Date: 9/18/14 Time: 1840 Relinquished by: Heather M. Woods

Received by: Christie Walter Date: 9/18/14 Time: 1840

Remarks: Bill to Enterprise Field Services
Attn: Tom Long

Date: 9/18/14 Time: 1857 Relinquished by: Christie Walter

Received by: Tom Long Date: 09/19/14 Time: 1700

Per e-mail from Heather Woods on 10/31/14, added Mid-North to all I

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

11/31



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

November 04, 2014

Heather Woods
APEX AZTEC
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (505) 716-2787
FAX (505) 334-5204

RE: Lateral K-31 Mid-North

OrderNo.: 1409C43

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/25/2014 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued September 29, 2014.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX AZTEC Client Sample ID: SP-1 Mid-North
 Project: Lateral K-31 Mid-North Collection Date: 9/24/2014 1:11:00 PM
 Lab ID: 1409C43-001 Matrix: MEOH (SOIL) Received Date: 9/25/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 9/26/2014 6:59:15 PM | 15500 |
| Surr: DNOP | 82.5 | 57.9-140 | | %REC | 1 | 9/26/2014 6:59:15 PM | 15500 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 9/25/2014 10:10:49 PM | R21449 |
| Surr: BFB | 88.4 | 80-120 | | %REC | 1 | 9/25/2014 10:10:49 PM | R21449 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.047 | | mg/Kg | 1 | 9/25/2014 10:10:49 PM | R21449 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 9/25/2014 10:10:49 PM | R21449 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 9/25/2014 10:10:49 PM | R21449 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 9/25/2014 10:10:49 PM | R21449 |
| Surr: 4-Bromofluorobenzene | 91.4 | 80-120 | | %REC | 1 | 9/25/2014 10:10:49 PM | R21449 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX AZTEC

Client Sample ID: SP-2 Mid-North

Project: Lateral K-31 Mid-North

Collection Date: 9/24/2014 1:33:00 PM

Lab ID: 1409C43-002

Matrix: MEOH (SOIL)

Received Date: 9/25/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 9/26/2014 7:29:45 PM | 15500 |
| Surr: DNOP | 92.2 | 57.9-140 | | %REC | 1 | 9/26/2014 7:29:45 PM | 15500 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.4 | | mg/Kg | 1 | 9/25/2014 10:39:19 PM | R21449 |
| Surr: BFB | 88.5 | 80-120 | | %REC | 1 | 9/25/2014 10:39:19 PM | R21449 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.054 | | mg/Kg | 1 | 9/25/2014 10:39:19 PM | R21449 |
| Toluene | ND | 0.054 | | mg/Kg | 1 | 9/25/2014 10:39:19 PM | R21449 |
| Ethylbenzene | ND | 0.054 | | mg/Kg | 1 | 9/25/2014 10:39:19 PM | R21449 |
| Xylenes, Total | ND | 0.11 | | mg/Kg | 1 | 9/25/2014 10:39:19 PM | R21449 |
| Surr: 4-Bromofluorobenzene | 92.5 | 80-120 | | %REC | 1 | 9/25/2014 10:39:19 PM | R21449 |

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 |
| | 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 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409C43

04-Nov-14

Client: APEX AZTEC
Project: Lateral K-31 Mid-North

| | | | | | | | | | | |
|-----------------------------|-----------|---------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | MB-15500 | SampType | MBLK | TestCode | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID | PBS | Batch ID | 15500 | RunNo | 21436 | | | | | |
| Prep Date | 9/25/2014 | Analysis Date | 9/25/2014 | SeqNo | 626728 | 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 | 9.9 | | 10.00 | | 99.2 | 57.9 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|-----------|---------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | LCS-15500 | SampType | LCS | TestCode | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID | LCSS | Batch ID | 15500 | RunNo | 21436 | | | | | |
| Prep Date | 9/25/2014 | Analysis Date | 9/25/2014 | SeqNo | 626795 | Units | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 57 | 10 | 50.00 | 0 | 113 | 68.6 | 130 | | | |
| Surr: DNOP | 4.8 | | 5.000 | | 96.5 | 57.9 | 140 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409C43

04-Nov-14

Client: APEX AZTEC
Project: Lateral K-31 Mid-North

| | | | | | | | | | | |
|-------------------------------|--------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | MB-15490 MK | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | R21449 | RunNo: | 21449 | | | | | |
| Prep Date: | | Analysis Date: | 9/25/2014 | SeqNo: | 627596 | 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 | 880 | | 1000 | | 87.7 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|---------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | LCS-15490 MK | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | R21449 | RunNo: | 21449 | | | | | |
| Prep Date: | | Analysis Date: | 9/25/2014 | SeqNo: | 627597 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 29 | 5.0 | 25.00 | 0 | 116 | 65.8 | 139 | | | |
| Surr: BFB | 980 | | 1000 | | 98.0 | 80 | 120 | | | |

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409C43

04-Nov-14

Client: APEX AZTEC

Project: Lateral K-31 Mid-North

| | | | | | | | | | | |
|----------------------------|--------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-15490 MK | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | PBS | Batch ID: | R21449 | RunNo: | 21449 | | | | | |
| Prep Date: | | Analysis Date: | 9/25/2014 | SeqNo: | 627632 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.050 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.91 | | 1.000 | | 91.4 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|---------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-15490 MK | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | LCSS | Batch ID: | R21449 | RunNo: | 21449 | | | | | |
| Prep Date: | | Analysis Date: | 9/25/2014 | SeqNo: | 627633 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.050 | 1.000 | 0 | 102 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 100 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 104 | 80 | 120 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.000 | 0 | 103 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 100 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1409C43

RcptNo: 1

Received by/date: [Signature] 09/25/14

Logged By: Lindsay Mangin 9/25/2014 7:00:00 AM [Signature]

Completed By: Lindsay Mangin 9/25/2014 9:04:03 AM [Signature]

Reviewed By: CS 09/25/14

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
(Note discrepancies on chain of custody)
- 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? Yes No
(If no, notify customer for authorization.)

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 | 1.5 | Good | Yes | | | |

CHAIN OF CUSTODY RECORD

APEX
Office Location Aztec, NM

Laboratory: Hall Environmental
Address: Albuquerque, NM
Contact: Andy Freeman
Phone: _____
PO/ISO #: Direct Bill to Enterprise

ANALYSIS REQUESTED

*8021 BTEX
8015 TPH (GRO/DRO)*

Lab use only
Due Date: _____
Temp. of coolers when received (C°): 1.5
1 2 3 4 5
Page 1 of 1

Project Manager Heather Woods
Sampler's Name: Heather Woods Sampler's Signature: Heather M. Woods

Proj. No. 7030414 G034 Project Name Lateral K-31 Mid-North No/Type of Containers 4 oz

| Matrix | Date | Time | COOL | 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 | 9/24/14 | 1311 | X | | SP-1 Mid-North | | | | | | 1 | | X X | 1409043-001 |
| S | 9/24/14 | 1333 | X | | SP-2 Mid-North | | | | | | 1 | | X X | -002 |
| NE5 #62 | | | | | | | | | | | | | | |

Turn around time Normal 25% Rush 50% Rush 100% Rush Results end of day 9/29/14

| | | | | | |
|--|-------------------------|----------------------|---|--------------------------|----------------------|
| Relinquished by (Signature) <u>Heather M. Woods</u> | Date: <u>9/24/14</u> | Time: <u>1647</u> | Received by (Signature) <u>Matthew Weber</u> | Date: <u>9/24/14</u> | Time: <u>1647</u> |
| Relinquished by (Signature) <u>Matthew Weber</u> | Date: <u>9/24/14</u> | Time: <u>1915</u> | Received by (Signature) <u>[Signature]</u> | Date: <u>09/25/14</u> | Time: <u>0900</u> |
| Relinquished by (Signature) | Date: | Time: | Received by (Signature) | Date: | Time: |
| Relinquished by (Signature) | Date: | Time: | Received by (Signature) | Date: | Time: |

NOTES: Direct Bill to Enterprise Field Services
Attn: Tom Long
*Per email from Heather Woods on 10/31/14, added "Mid-North" to all sample IDs. WMS 11/3/14

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



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

November 04, 2014

Heather Woods
APEX TITAN
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (505) 716-2787
FAX

RE: Lateral K-31 Mid-South

OrderNo.: 1409878

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 5 sample(s) on 9/18/2014 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued September 25, 2014.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1409878
 Date Reported: 11/4/2014

CLIENT: APEX TITAN

Client Sample ID: S-1 Mid-South

Project: Lateral K-31 Mid-South

Collection Date: 9/16/2014 3:45:00 PM

Lab ID: 1409878-001

Matrix: SOIL

Received Date: 9/18/2014 7:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 120 | 9.8 | | mg/Kg | 1 | 9/23/2014 1:49:28 PM | 15363 |
| Surr: DNOP | 122 | 57.9-140 | | %REC | 1 | 9/23/2014 1:49:28 PM | 15363 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 9/22/2014 10:52:21 PM | 15378 |
| Surr: BFB | 95.2 | 80-120 | | %REC | 1 | 9/22/2014 10:52:21 PM | 15378 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.049 | | mg/Kg | 1 | 9/22/2014 10:52:21 PM | 15378 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 9/22/2014 10:52:21 PM | 15378 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 9/22/2014 10:52:21 PM | 15378 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 9/22/2014 10:52:21 PM | 15378 |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | | %REC | 1 | 9/22/2014 10:52:21 PM | 15378 |

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 | |
| | 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 | Page 1 of 9 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. | |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit | |
| | S Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: S-2 Mid-South
 Project: Lateral K-31 Mid-South Collection Date: 9/16/2014 3:50:00 PM
 Lab ID: 1409878-002 Matrix: SOIL Received Date: 9/18/2014 7:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 19 | 10 | | mg/Kg | 1 | 9/19/2014 7:51:09 PM | 15369 |
| Surr: DNOP | 90.8 | 57.9-140 | | %REC | 1 | 9/19/2014 7:51:09 PM | 15369 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 33 | 4.7 | | mg/Kg | 1 | 9/22/2014 11:20:57 PM | 15378 |
| Surr: BFB | 195 | 80-120 | S | %REC | 1 | 9/22/2014 11:20:57 PM | 15378 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.047 | | mg/Kg | 1 | 9/22/2014 11:20:57 PM | 15378 |
| Toluene | 0.21 | 0.047 | | mg/Kg | 1 | 9/22/2014 11:20:57 PM | 15378 |
| Ethylbenzene | 0.19 | 0.047 | | mg/Kg | 1 | 9/22/2014 11:20:57 PM | 15378 |
| Xylenes, Total | 3.3 | 0.094 | | mg/Kg | 1 | 9/22/2014 11:20:57 PM | 15378 |
| Surr: 4-Bromofluorobenzene | 116 | 80-120 | | %REC | 1 | 9/22/2014 11:20:57 PM | 15378 |

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 |
| 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 |
| O | RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R | RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: S-3 Mid-South
 Project: Lateral K-31 Mid-South Collection Date: 9/16/2014 3:55:00 PM
 Lab ID: 1409878-003 Matrix: SOIL Received Date: 9/18/2014 7:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 9/19/2014 8:55:21 PM | 15369 |
| Surr: DNOP | 110 | 57.9-140 | | %REC | 1 | 9/19/2014 8:55:21 PM | 15369 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 9/22/2014 11:49:32 PM | 15378 |
| Surr: BFB | 97.9 | 80-120 | | %REC | 1 | 9/22/2014 11:49:32 PM | 15378 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.047 | | mg/Kg | 1 | 9/22/2014 11:49:32 PM | 15378 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 9/22/2014 11:49:32 PM | 15378 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 9/22/2014 11:49:32 PM | 15378 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 9/22/2014 11:49:32 PM | 15378 |
| Surr: 4-Bromofluorobenzene | 103 | 80-120 | | %REC | 1 | 9/22/2014 11:49:32 PM | 15378 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-4 Mid-South

Project: Lateral K-31 Mid-South

Collection Date: 9/16/2014 4:00:00 PM

Lab ID: 1409878-004

Matrix: SOIL

Received Date: 9/18/2014 7:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 9/19/2014 9:16:52 PM | 15369 |
| Surr: DNOP | 107 | 57.9-140 | | %REC | 1 | 9/19/2014 9:16:52 PM | 15369 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 9/23/2014 12:18:04 AM | 15378 |
| Surr: BFB | 96.4 | 80-120 | | %REC | 1 | 9/23/2014 12:18:04 AM | 15378 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.049 | | mg/Kg | 1 | 9/23/2014 12:18:04 AM | 15378 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 9/23/2014 12:18:04 AM | 15378 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 9/23/2014 12:18:04 AM | 15378 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 9/23/2014 12:18:04 AM | 15378 |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | | %REC | 1 | 9/23/2014 12:18:04 AM | 15378 |

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 |
| | 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 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S Spike Recovery outside accepted recovery limits | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-5 Mid-South

Project: Lateral K-31 Mid-South

Collection Date: 9/16/2014 4:05:00 PM

Lab ID: 1409878-005

Matrix: SOIL

Received Date: 9/18/2014 7:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 9/19/2014 9:38:11 PM | 15369 |
| Surr: DNOP | 98.6 | 57.9-140 | | %REC | 1 | 9/19/2014 9:38:11 PM | 15369 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 9/23/2014 12:46:43 AM | 15378 |
| Surr: BFB | 102 | 80-120 | | %REC | 1 | 9/23/2014 12:46:43 AM | 15378 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.046 | | mg/Kg | 1 | 9/23/2014 12:46:43 AM | 15378 |
| Toluene | 0.18 | 0.046 | | mg/Kg | 1 | 9/23/2014 12:46:43 AM | 15378 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 9/23/2014 12:46:43 AM | 15378 |
| Xylenes, Total | 0.32 | 0.092 | | mg/Kg | 1 | 9/23/2014 12:46:43 AM | 15378 |
| Surr: 4-Bromofluorobenzene | 104 | 80-120 | | %REC | 1 | 9/23/2014 12:46:43 AM | 15378 |

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

| | | |
|---|--|-------------|
| Qualifiers: * Value exceeds Maximum Contaminant Level. E Value above quantitation range J Analyte detected below quantitation limits O RSD is greater than RSDlimit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits | B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit P Sample pH greater than 2. RL Reporting Detection Limit | Page 5 of 9 |
|---|--|-------------|

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409878

04-Nov-14

Client: APEX TITAN
Project: Lateral K-31 Mid-South

| Sample ID MB-15363 | SampType: MBLK | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 15363 | RunNo: 21269 | | | | | | | | |
| Prep Date: 9/18/2014 | Analysis Date: 9/18/2014 | SeqNo: 620601 | | | 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 | | 100 | 57.9 | 140 | | | |

| Sample ID LCS-15363 | SampType: LCS | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 15363 | RunNo: 21269 | | | | | | | | |
| Prep Date: 9/18/2014 | Analysis Date: 9/18/2014 | SeqNo: 620602 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 62 | 10 | 50.00 | 0 | 125 | 68.6 | 130 | | | |
| Surr: DNOP | 5.2 | | 5.000 | | 104 | 57.9 | 140 | | | |

| Sample ID LCS-15369 | SampType: LCS | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 15369 | RunNo: 21309 | | | | | | | | |
| Prep Date: 9/18/2014 | Analysis Date: 9/19/2014 | SeqNo: 622110 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 52 | 10 | 50.00 | 0 | 105 | 68.6 | 130 | | | |
| Surr: DNOP | 5.0 | | 5.000 | | 100 | 57.9 | 140 | | | |

| Sample ID MB-15369 | SampType: MBLK | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 15369 | RunNo: 21309 | | | | | | | | |
| Prep Date: 9/18/2014 | Analysis Date: 9/19/2014 | SeqNo: 622115 | | | 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 | 8.9 | | 10.00 | | 89.3 | 57.9 | 140 | | | |

| Sample ID 1409878-002AMS | SampType: MS | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | |
|---------------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: S-2 Mid-South | Batch ID: 15369 | RunNo: 21309 | | | | | | | | |
| Prep Date: 9/18/2014 | Analysis Date: 9/19/2014 | SeqNo: 623164 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 93 | 10 | 49.75 | 19.20 | 149 | 40.1 | 152 | | | |
| Surr: DNOP | 5.1 | | 4.975 | | 103 | 57.9 | 140 | | | |

| Sample ID 1409878-002AMSD | SampType: MSD | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | |
|----------------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: S-2 Mid-South | Batch ID: 15369 | RunNo: 21309 | | | | | | | | |
| Prep Date: 9/18/2014 | Analysis Date: 9/19/2014 | SeqNo: 623165 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409878

04-Nov-14

Client: APEX TITAN

Project: Lateral K-31 Mid-South

| Sample ID | 1409878-002AMSD | SampType: | MSD | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | | |
|-----------------------------|-----------------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|--|
| Client ID: | S-2 Mid-South | Batch ID: | 15369 | RunNo: | 21309 | | | | | | |
| Prep Date: | 9/18/2014 | Analysis Date: | 9/19/2014 | SeqNo: | 623165 | Units: | mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Diesel Range Organics (DRO) | 100 | 9.9 | 49.55 | 19.20 | 162 | 40.1 | 152 | 6.79 | 32.1 | S | |
| Surr: DNOP | 7.1 | | 4.955 | | 143 | 57.9 | 140 | 0 | 0 | S | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409878

04-Nov-14

Client: APEX TITAN
Project: Lateral K-31 Mid-South

| | | | | | | | | | | |
|-------------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | MB-15378 | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 15378 | RunNo: | 21342 | | | | | |
| Prep Date: | 9/18/2014 | Analysis Date: | 9/22/2014 | SeqNo: | 623292 | 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 | 940 | | 1000 | | 94.2 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | LCS-15378 | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 15378 | RunNo: | 21342 | | | | | |
| Prep Date: | 9/18/2014 | Analysis Date: | 9/22/2014 | SeqNo: | 623293 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 26 | 5.0 | 25.00 | 0 | 103 | 65.8 | 139 | | | |
| Surr: BFB | 1000 | | 1000 | | 101 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409878

04-Nov-14

Client: APEX TITAN
Project: Lateral K-31 Mid-South

| Sample ID | MB-15378 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 15378 | RunNo: | 21342 | | | | | |
| Prep Date: | 9/18/2014 | Analysis Date: | 9/22/2014 | SeqNo: | 623326 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.050 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 104 | 80 | 120 | | | |

| Sample ID | LCS-15378 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 15378 | RunNo: | 21342 | | | | | |
| Prep Date: | 9/18/2014 | Analysis Date: | 9/22/2014 | SeqNo: | 623327 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.91 | 0.050 | 1.000 | 0 | 90.6 | 80 | 120 | | | |
| Toluene | 0.91 | 0.050 | 1.000 | 0 | 91.1 | 80 | 120 | | | |
| Ethylbenzene | 0.92 | 0.050 | 1.000 | 0 | 92.4 | 80 | 120 | | | |
| Xylenes, Total | 2.8 | 0.10 | 3.000 | 0 | 92.6 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 107 | 80 | 120 | | | |

| Sample ID | 1409878-001AMS | SampType: | MS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-----------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | S-1 Mid-South | Batch ID: | 15378 | RunNo: | 21342 | | | | | |
| Prep Date: | 9/18/2014 | Analysis Date: | 9/22/2014 | SeqNo: | 623339 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.76 | 0.049 | 0.9843 | 0 | 77.0 | 77.4 | 142 | | | S |
| Toluene | 0.83 | 0.049 | 0.9843 | 0 | 84.8 | 77 | 132 | | | |
| Ethylbenzene | 0.88 | 0.049 | 0.9843 | 0 | 89.5 | 77.6 | 134 | | | |
| Xylenes, Total | 2.7 | 0.098 | 2.953 | 0 | 89.9 | 77.4 | 132 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 0.9843 | | 108 | 80 | 120 | | | |

| Sample ID | 1409878-001AMSD | SampType: | MSD | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | S-1 Mid-South | Batch ID: | 15378 | RunNo: | 21342 | | | | | |
| Prep Date: | 9/18/2014 | Analysis Date: | 9/22/2014 | SeqNo: | 623340 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.88 | 0.049 | 0.9881 | 0 | 89.5 | 77.4 | 142 | 15.3 | 20 | |
| Toluene | 0.90 | 0.049 | 0.9881 | 0 | 91.2 | 77 | 132 | 7.62 | 20 | |
| Ethylbenzene | 0.91 | 0.049 | 0.9881 | 0 | 92.1 | 77.6 | 134 | 3.28 | 20 | |
| Xylenes, Total | 2.7 | 0.099 | 2.964 | 0 | 91.7 | 77.4 | 132 | 2.39 | 20 | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 0.9881 | | 109 | 80 | 120 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1409878

RcptNo: 1

Received by/date: AT 09/18/14

Logged By: Lindsay Mangin 9/18/2014 7:30:00 AM *Judy H*

Completed By: Lindsay Mangin 9/18/2014 9:10:19 AM *Judy H*

Reviewed By: *[Signature]* 09/18/14

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 | 1.0 | Good | Yes | | | |



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

November 04, 2014

Heather Woods
APEX TITAN
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (505) 716-2787
FAX

RE: Lateral K-31 Mid-South

OrderNo.: 1410144

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/3/2014 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued October 08, 2014.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-6 Mid-South

Project: Lateral K-31 Mid-South

Collection Date: 10/2/2014 11:25:00 AM

Lab ID: 1410144-001

Matrix: SOIL

Received Date: 10/3/2014 7:40:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 10/6/2014 3:55:41 PM | 15711 |
| Surr: DNOP | 92.4 | 57.9-140 | | %REC | 1 | 10/6/2014 3:55:41 PM | 15711 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 10/6/2014 3:57:31 PM | 15706 |
| Surr: BFB | 92.6 | 80-120 | | %REC | 1 | 10/6/2014 3:57:31 PM | 15706 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.047 | | mg/Kg | 1 | 10/6/2014 3:57:31 PM | 15706 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 10/6/2014 3:57:31 PM | 15706 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 10/6/2014 3:57:31 PM | 15706 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 10/6/2014 3:57:31 PM | 15706 |
| Surr: 4-Bromofluorobenzene | 97.7 | 80-120 | | %REC | 1 | 10/6/2014 3:57:31 PM | 15706 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Analytical Report

Lab Order 1410144

Date Reported: 11/4/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** APEX TITAN**Client Sample ID:** SP-1 Mid-South**Project:** Lateral K-31 Mid-South**Collection Date:** 10/2/2014 11:40:00 AM**Lab ID:** 1410144-002**Matrix:** SOIL**Received Date:** 10/3/2014 7:40:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 12 | 10 | | mg/Kg | 1 | 10/6/2014 4:16:58 PM | 15711 |
| Surr: DNOP | 105 | 57.9-140 | | %REC | 1 | 10/6/2014 4:16:58 PM | 15711 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 8.1 | 4.7 | | mg/Kg | 1 | 10/6/2014 8:43:25 PM | 15706 |
| Surr: BFB | 129 | 80-120 | S | %REC | 1 | 10/6/2014 8:43:25 PM | 15706 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.047 | | mg/Kg | 1 | 10/6/2014 8:43:25 PM | 15706 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 10/6/2014 8:43:25 PM | 15706 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 10/6/2014 8:43:25 PM | 15706 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 10/6/2014 8:43:25 PM | 15706 |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | | %REC | 1 | 10/6/2014 8:43:25 PM | 15706 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Analytical Report

Lab Order 1410144

Date Reported: 11/4/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: SP-2 Mid-South

Project: Lateral K-31 Mid-South

Collection Date: 10/2/2014 11:52:00 AM

Lab ID: 1410144-003

Matrix: SOIL

Received Date: 10/3/2014 7:40:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 10/6/2014 4:38:28 PM | 15711 |
| Surr: DNOP | 121 | 57.9-140 | | %REC | 1 | 10/6/2014 4:38:28 PM | 15711 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 10/6/2014 9:12:04 PM | 15706 |
| Surr: BFB | 97.9 | 80-120 | | %REC | 1 | 10/6/2014 9:12:04 PM | 15706 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.047 | | mg/Kg | 1 | 10/6/2014 9:12:04 PM | 15706 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 10/6/2014 9:12:04 PM | 15706 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 10/6/2014 9:12:04 PM | 15706 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 10/6/2014 9:12:04 PM | 15706 |
| Surr: 4-Bromofluorobenzene | 98.0 | 80-120 | | %REC | 1 | 10/6/2014 9:12:04 PM | 15706 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410144

04-Nov-14

Client: APEX TITAN
Project: Lateral K-31 Mid-South

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | MB-15711 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 15711 | RunNo: | 21668 | | | | | |
| Prep Date: | 10/4/2014 | Analysis Date: | 10/6/2014 | SeqNo: | 636214 | 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 | 7.9 | | 10.00 | | 79.2 | 57.9 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | LCS-15711 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 15711 | RunNo: | 21668 | | | | | |
| Prep Date: | 10/4/2014 | Analysis Date: | 10/6/2014 | SeqNo: | 636215 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 62 | 10 | 50.00 | 0 | 124 | 68.6 | 130 | | | |
| Surr: DNOP | 4.1 | | 5.000 | | 81.1 | 57.9 | 140 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410144

04-Nov-14

Client: APEX TITAN
Project: Lateral K-31 Mid-South

| Sample ID MB-15706 | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 15706 | | RunNo: 21690 | | | | | | | |
| Prep Date: 10/3/2014 | Analysis Date: 10/6/2014 | | SeqNo: 636820 | | 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 | 890 | | 1000 | | 89.1 | 80 | 120 | | | |

| Sample ID LCS-15706 | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 15706 | | RunNo: 21690 | | | | | | | |
| Prep Date: 10/3/2014 | Analysis Date: 10/6/2014 | | SeqNo: 636821 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 27 | 5.0 | 25.00 | 0 | 109 | 65.8 | 139 | | | |
| Surr: BFB | 1000 | | 1000 | | 101 | 80 | 120 | | | |

| Sample ID 1410144-001AMS | SampType: MS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|---------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: S-6 Mid-South | Batch ID: 15706 | | RunNo: 21690 | | | | | | | |
| Prep Date: 10/3/2014 | Analysis Date: 10/6/2014 | | SeqNo: 636823 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 25 | 4.7 | 23.56 | 0 | 107 | 71.8 | 132 | | | |
| Surr: BFB | 950 | | 942.5 | | 101 | 80 | 120 | | | |

| Sample ID 1410144-001AMSD | SampType: MSD | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|----------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: S-6 Mid-South | Batch ID: 15706 | | RunNo: 21690 | | | | | | | |
| Prep Date: 10/3/2014 | Analysis Date: 10/6/2014 | | SeqNo: 636824 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 25 | 4.7 | 23.61 | 0 | 104 | 71.8 | 132 | 2.54 | 20 | |
| Surr: BFB | 950 | | 944.3 | | 101 | 80 | 120 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410144

04-Nov-14

Client: APEX TITAN
Project: Lateral K-31 Mid-South

| Sample ID | MB-15706 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 15706 | RunNo: | 21690 | | | | | |
| Prep Date: | 10/3/2014 | Analysis Date: | 10/6/2014 | SeqNo: | 636858 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.050 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.95 | | 1.000 | | 94.7 | 80 | 120 | | | |

| Sample ID | LCS-15706 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 15706 | RunNo: | 21690 | | | | | |
| Prep Date: | 10/3/2014 | Analysis Date: | 10/6/2014 | SeqNo: | 636859 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.99 | 0.050 | 1.000 | 0 | 98.9 | 80 | 120 | | | |
| Toluene | 0.99 | 0.050 | 1.000 | 0 | 99.3 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 102 | 80 | 120 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.000 | 0 | 102 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 103 | 80 | 120 | | | |

| Sample ID | 1410144-002AMS | SampType: | MS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-----------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | SP-1 Mid-South | Batch ID: | 15706 | RunNo: | 21690 | | | | | |
| Prep Date: | 10/3/2014 | Analysis Date: | 10/6/2014 | SeqNo: | 636862 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.89 | 0.047 | 0.9390 | 0 | 94.9 | 77.4 | 142 | | | |
| Toluene | 0.90 | 0.047 | 0.9390 | 0.009615 | 94.7 | 77 | 132 | | | |
| Ethylbenzene | 0.93 | 0.047 | 0.9390 | 0.01758 | 97.7 | 77.6 | 134 | | | |
| Xylenes, Total | 2.8 | 0.094 | 2.817 | 0.04160 | 97.9 | 77.4 | 132 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 0.9390 | | 106 | 80 | 120 | | | |

| Sample ID | 1410144-002AMSD | SampType: | MSD | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | SP-1 Mid-South | Batch ID: | 15706 | RunNo: | 21690 | | | | | |
| Prep Date: | 10/3/2014 | Analysis Date: | 10/6/2014 | SeqNo: | 636863 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.93 | 0.047 | 0.9398 | 0 | 99.0 | 77.4 | 142 | 4.33 | 20 | |
| Toluene | 0.93 | 0.047 | 0.9398 | 0.009615 | 97.8 | 77 | 132 | 3.25 | 20 | |
| Ethylbenzene | 0.97 | 0.047 | 0.9398 | 0.01758 | 101 | 77.6 | 134 | 3.80 | 20 | |
| Xylenes, Total | 2.9 | 0.094 | 2.820 | 0.04160 | 100 | 77.4 | 132 | 2.65 | 20 | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 0.9398 | | 106 | 80 | 120 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1410144

RcptNo: 1

Received by/date: UM 10/03/14

Logged By: Michelle Garcia 10/3/2014 7:40:00 AM *Michelle Garcia*

Completed By: Michelle Garcia 10/3/2014 9:22:50 AM *Michelle Garcia*

Reviewed By: CS 10/3/14

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
(Note discrepancies on chain of custody)
- 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? Yes No
(If no, notify customer for authorization.)

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

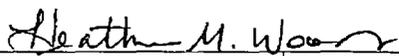
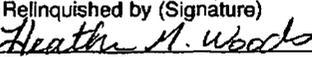
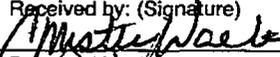
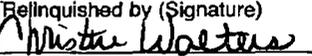
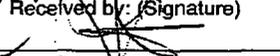
Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 1.6 | Good | Yes | | | |

CHAIN OF CUSTODY RECORD

|  APEX Office Location <u>Aztec, NM</u> | | Laboratory: <u>Hall Environmental</u> Address: <u>Albuquerque, NM</u> | | ANALYSIS REQUESTED <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> Lab use only Due Date: _____ Temp. of coolers when received (C°): <u>1.6</u> <table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td> </tr> </table> Page _____ of _____ </div> | | | | | | | | | | 1 | 2 | 3 | 4 | 5 |
|---|---------|--|---------|--|--------------------------------|---------------------------------|--|-----|-------|----------|-----------|-------|------------------------------|---|--------------|---|---|---|
| | | 1 | 2 | | | | | | | | | | | 3 | 4 | 5 | | |
| Contact: <u>Andy Freeman</u> Phone: <u>505-345-3975</u> | | PO/SO #: <u>Direct Bill to Enterprise</u> | | | | | | | | | | | | | | | | |
| Project Manager <u>Heather Woods</u> | | Sampler's Name <u>Heather Woods</u> | | Sampler's Signature  | | B021 BTEX G015 TPH (Geo/Deo) | | | | | | | | | | | | |
| Proj. No. <u>70304146034,001</u> | | Project Name <u>Lateral K-31 Mid-South</u> | | No/Type of Containers <u>4 oz Glass</u> | | | | | | | | | | | | | | |
| Matrix | Date | Time | COE | 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 | 10/2/14 | 1125 | | ✓ | S-6 Mid-South | | | | | | 1 | | X | X | 1410144 -001 | | | |
| S | 10/2/14 | 1140 | | ✓ | SP-1 Mid South | | | | | | 1 | | X | X | 1410144 -002 | | | |
| S | 10/2/14 | 1152 | | ✓ | SP-2 Mid South | | | | | | 1 | | X | X | 1410144 -003 | | | |
| NPS HAW | | | | | | | | | | | | | | | | | | |
| Turn around time <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input type="checkbox"/> 100% Rush Results by 10/10 AM | | | | | | | | | | | | | | | | | | |
| Relinquished by (Signature) | | | Date: | | Time: | | Received by: (Signature) | | | Date: | | Time: | | NOTES: Direct Bill to Enterprise Field Services Attn: Tom Long Per email from Heather Woods on 10/31/14, p. WO: 879213 Paykey: AG11580 "Mid-South" to all sample IDs. KMS 11/3/14 | | | | |
|  | | | 10/2/14 | | 1539 | |  | | | 10/2/14 | | 1539 | | | | | | |
|  | | | 10/2/14 | | 1800 | |  | | | 10/31/14 | | 0740 | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Relinquished by (Signature) | | | Date: | | Time: | | Received by: (Signature) | | | Date: | | Time: | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Relinquished by (Signature) | | | Date: | | Time: | | Received by: (Signature) | | | Date: | | Time: | | | | | | |
| | | | | | | | | | | | | | | | | | | |

Matrix WW - Wastewater W - Water S - Soil SD - Solid L - Liquid A - Air Bag C - Charcoal tube SL - sludge O - Oil
 Container 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

November 04, 2014

Heather Woods
APEX TITAN
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (505) 716-2787
FAX

RE: Lateral K-31 Sept 2014 (Release A)

OrderNo.: 1409639

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 7 sample(s) on 9/13/2014 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued September 24, 2014.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a 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 South**Project:** Lateral K-31 Sept 2014 (Release A)**Collection Date:** 9/11/2014 4:30:00 PM**Lab ID:** 1409639-001**Matrix:** SOIL**Received Date:** 9/13/2014 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 13 | 9.8 | | mg/Kg | 1 | 9/17/2014 12:22:23 PM | 15281 |
| Surr: DNOP | 95.3 | 57.9-140 | | %REC | 1 | 9/17/2014 12:22:23 PM | 15281 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: DJF |
| Gasoline Range Organics (GRO) | 9.1 | 4.9 | | mg/Kg | 1 | 9/17/2014 3:35:54 PM | 15287 |
| Surr: BFB | 108 | 80-120 | | %REC | 1 | 9/17/2014 3:35:54 PM | 15287 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: DJF |
| Benzene | 0.32 | 0.049 | | mg/Kg | 1 | 9/17/2014 3:35:54 PM | 15287 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 9/17/2014 3:35:54 PM | 15287 |
| Ethylbenzene | 0.068 | 0.049 | | mg/Kg | 1 | 9/17/2014 3:35:54 PM | 15287 |
| Xylenes, Total | 0.53 | 0.099 | | mg/Kg | 1 | 9/17/2014 3:35:54 PM | 15287 |
| Surr: 4-Bromofluorobenzene | 104 | 80-120 | | %REC | 1 | 9/17/2014 3:35:54 PM | 15287 |

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

| | | | | |
|--------------------|---|---|----|--|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| | J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN **Client Sample ID:** S-2 South
Project: Lateral K-31 Sept 2014 (Release A) **Collection Date:** 9/11/2014 4:35:00 PM
Lab ID: 1409639-002 **Matrix:** SOIL **Received Date:** 9/13/2014 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 9/17/2014 1:27:22 PM | 15281 |
| Surr: DNOP | 90.5 | 57.9-140 | | %REC | 1 | 9/17/2014 1:27:22 PM | 15281 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: DJF |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 9/17/2014 5:01:57 PM | 15287 |
| Surr: BFB | 101 | 80-120 | | %REC | 1 | 9/17/2014 5:01:57 PM | 15287 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: DJF |
| Benzene | 0.11 | 0.048 | | mg/Kg | 1 | 9/17/2014 5:01:57 PM | 15287 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 9/17/2014 5:01:57 PM | 15287 |
| Ethylbenzene | 0.057 | 0.048 | | mg/Kg | 1 | 9/17/2014 5:01:57 PM | 15287 |
| Xylenes, Total | 0.12 | 0.095 | | mg/Kg | 1 | 9/17/2014 5:01:57 PM | 15287 |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | | %REC | 1 | 9/17/2014 5:01:57 PM | 15287 |

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 |
| | 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 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S Spike Recovery outside accepted recovery limits | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: S-3 South
 Project: Lateral K-31 Sept 2014 (Release A) Collection Date: 9/11/2014 4:40:00 PM
 Lab ID: 1409639-003 Matrix: SOIL Received Date: 9/13/2014 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 9/17/2014 1:52:05 PM | 15281 |
| Surr: DNOP | 91.1 | 57.9-140 | | %REC | 1 | 9/17/2014 1:52:05 PM | 15281 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: DJF |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 9/17/2014 8:22:16 PM | 15287 |
| Surr: BFB | 92.0 | 80-120 | | %REC | 1 | 9/17/2014 8:22:16 PM | 15287 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: DJF |
| Benzene | 0.13 | 0.049 | | mg/Kg | 1 | 9/17/2014 8:22:16 PM | 15287 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 9/17/2014 8:22:16 PM | 15287 |
| Ethylbenzene | 0.13 | 0.049 | | mg/Kg | 1 | 9/17/2014 8:22:16 PM | 15287 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 9/17/2014 8:22:16 PM | 15287 |
| Surr: 4-Bromofluorobenzene | 95.7 | 80-120 | | %REC | 1 | 9/17/2014 8:22:16 PM | 15287 |

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 |
| | 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 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S Spike Recovery outside accepted recovery limits | |

Analytical Report

Lab Order 1409639

Date Reported: 11/4/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-4 South

Project: Lateral K-31 Sept 2014 (Release A)

Collection Date: 9/11/2014 4:45:00 PM

Lab ID: 1409639-004

Matrix: SOIL

Received Date: 9/13/2014 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 9/17/2014 2:13:48 PM | 15281 |
| Surr: DNOP | 97.1 | 57.9-140 | | %REC | 1 | 9/17/2014 2:13:48 PM | 15281 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: DJF |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 9/17/2014 2:10:03 PM | 15287 |
| Surr: BFB | 96.5 | 80-120 | | %REC | 1 | 9/17/2014 2:10:03 PM | 15287 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: DJF |
| Benzene | ND | 0.048 | | mg/Kg | 1 | 9/17/2014 2:10:03 PM | 15287 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 9/17/2014 2:10:03 PM | 15287 |
| Ethylbenzene | 0.18 | 0.048 | | mg/Kg | 1 | 9/17/2014 2:10:03 PM | 15287 |
| Xylenes, Total | 0.18 | 0.096 | | mg/Kg | 1 | 9/17/2014 2:10:03 PM | 15287 |
| Surr: 4-Bromofluorobenzene | 98.5 | 80-120 | | %REC | 1 | 9/17/2014 2:10:03 PM | 15287 |

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 |
| | 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 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S Spike Recovery outside accepted recovery limits | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN **Client Sample ID:** S-5 South
Project: Lateral K-31 Sept 2014 (Release A) **Collection Date:** 9/11/2014 4:50:00 PM
Lab ID: 1409639-005 **Matrix:** SOIL **Received Date:** 9/13/2014 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 9/17/2014 2:35:27 PM | 15281 |
| Surr: DNOP | 92.1 | 57.9-140 | | %REC | 1 | 9/17/2014 2:35:27 PM | 15281 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: DJF |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 9/17/2014 2:38:42 PM | 15287 |
| Surr: BFB | 93.8 | 80-120 | | %REC | 1 | 9/17/2014 2:38:42 PM | 15287 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: DJF |
| Benzene | 0.28 | 0.049 | | mg/Kg | 1 | 9/17/2014 2:38:42 PM | 15287 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 9/17/2014 2:38:42 PM | 15287 |
| Ethylbenzene | 0.066 | 0.049 | | mg/Kg | 1 | 9/17/2014 2:38:42 PM | 15287 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 9/17/2014 2:38:42 PM | 15287 |
| Surr: 4-Bromofluorobenzene | 98.2 | 80-120 | | %REC | 1 | 9/17/2014 2:38:42 PM | 15287 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-6 South

Project: Lateral K-31 Sept 2014 (Release A)

Collection Date: 9/11/2014 4:55:00 PM

Lab ID: 1409639-006

Matrix: SOIL

Received Date: 9/13/2014 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 75 | 9.8 | | mg/Kg | 1 | 9/17/2014 2:57:13 PM | 15281 |
| Surr: DNOP | 100 | 57.9-140 | | %REC | 1 | 9/17/2014 2:57:13 PM | 15281 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: DJF |
| Gasoline Range Organics (GRO) | 73 | 4.7 | | mg/Kg | 1 | 9/17/2014 3:07:19 PM | 15287 |
| Surr: BFB | 350 | 80-120 | S | %REC | 1 | 9/17/2014 3:07:19 PM | 15287 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: DJF |
| Benzene | 0.12 | 0.047 | | mg/Kg | 1 | 9/17/2014 3:07:19 PM | 15287 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 9/17/2014 3:07:19 PM | 15287 |
| Ethylbenzene | 0.37 | 0.047 | | mg/Kg | 1 | 9/17/2014 3:07:19 PM | 15287 |
| Xylenes, Total | 1.1 | 0.095 | | mg/Kg | 1 | 9/17/2014 3:07:19 PM | 15287 |
| Surr: 4-Bromofluorobenzene | 118 | 80-120 | | %REC | 1 | 9/17/2014 3:07:19 PM | 15287 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-7 South

Project: Lateral K-31 Sept 2014 (Release A)

Collection Date: 9/11/2014 5:00:00 PM

Lab ID: 1409639-007

Matrix: SOIL

Received Date: 9/13/2014 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 330 | 9.9 | | mg/Kg | 1 | 9/17/2014 3:18:50 PM | 15281 |
| Surr: DNOP | 102 | 57.9-140 | | %REC | 1 | 9/17/2014 3:18:50 PM | 15281 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: DJF |
| Gasoline Range Organics (GRO) | 780 | 47 | | mg/Kg | 10 | 9/18/2014 1:16:28 PM | 15287 |
| Surr: BFB | 353 | 80-120 | S | %REC | 10 | 9/18/2014 1:16:28 PM | 15287 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: DJF |
| Benzene | 2.0 | 0.047 | | mg/Kg | 1 | 9/17/2014 8:50:59 PM | 15287 |
| Toluene | 1.8 | 0.047 | | mg/Kg | 1 | 9/17/2014 8:50:59 PM | 15287 |
| Ethylbenzene | 7.1 | 0.47 | | mg/Kg | 10 | 9/18/2014 1:16:28 PM | 15287 |
| Xylenes, Total | 56 | 0.94 | | mg/Kg | 10 | 9/18/2014 1:16:28 PM | 15287 |
| Surr: 4-Bromofluorobenzene | 386 | 80-120 | S | %REC | 1 | 9/17/2014 8:50:59 PM | 15287 |

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 | |
| | 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 | Page 7 of 10 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. | |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit | |
| | S Spike Recovery outside accepted recovery limits | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409639

04-Nov-14

Client: APEX TITAN
Project: Lateral K-31 Sept 2014 (Release A)

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | MB-15281 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 15281 | RunNo: | 21197 | | | | | |
| Prep Date: | 9/15/2014 | Analysis Date: | 9/15/2014 | SeqNo: | 617317 | 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 | 12 | | 10.00 | | 116 | 57.9 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | LCS-15281 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 15281 | RunNo: | 21197 | | | | | |
| Prep Date: | 9/15/2014 | Analysis Date: | 9/15/2014 | SeqNo: | 617442 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 55 | 10 | 50.00 | 0 | 110 | 68.6 | 130 | | | |
| Surr: DNOP | 5.3 | | 5.000 | | 107 | 57.9 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|-----------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | 1409639-001AMS | SampType: | MS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | S-1 South | Batch ID: | 15281 | RunNo: | 21309 | | | | | |
| Prep Date: | 9/15/2014 | Analysis Date: | 9/19/2014 | SeqNo: | 621820 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 77 | 10 | 50.15 | 13.39 | 126 | 40.1 | 152 | | | |
| Surr: DNOP | 4.2 | | 5.015 | | 84.7 | 57.9 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|------------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | 1409639-001AMSD | SampType: | MSD | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | S-1 South | Batch ID: | 15281 | RunNo: | 21309 | | | | | |
| Prep Date: | 9/15/2014 | Analysis Date: | 9/19/2014 | SeqNo: | 622101 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 52 | 10 | 50.00 | 13.39 | 76.2 | 40.1 | 152 | 39.5 | 32.1 | R |
| Surr: DNOP | 4.0 | | 5.000 | | 79.7 | 57.9 | 140 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409639

04-Nov-14

Client: APEX TITAN
Project: Lateral K-31 Sept 2014 (Release A)

| | | | | | | | | | | |
|-------------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | MB-15287 | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 15287 | RunNo: | 21265 | | | | | |
| Prep Date: | 9/15/2014 | Analysis Date: | 9/17/2014 | SeqNo: | 620315 | 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 | | 91.4 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | LCS-15287 | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 15287 | RunNo: | 21265 | | | | | |
| Prep Date: | 9/15/2014 | Analysis Date: | 9/17/2014 | SeqNo: | 620316 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 30 | 5.0 | 25.00 | 0 | 119 | 65.8 | 139 | | | |
| Surr: BFB | 990 | | 1000 | | 99.1 | 80 | 120 | | | |

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409639

04-Nov-14

Client: APEX TITAN
Project: Lateral K-31 Sept 2014 (Release A)

| Sample ID | MB-15287 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 15287 | RunNo: | 21265 | | | | | |
| Prep Date: | 9/15/2014 | Analysis Date: | 9/17/2014 | SeqNo: | 620342 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.050 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.98 | | 1.000 | | 97.6 | 80 | 120 | | | |

| Sample ID | LCS-15287 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 15287 | RunNo: | 21265 | | | | | |
| Prep Date: | 9/15/2014 | Analysis Date: | 9/17/2014 | SeqNo: | 620343 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.050 | 1.000 | 0 | 102 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 102 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 103 | 80 | 120 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.000 | 0 | 103 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 103 | 80 | 120 | | | |

| Sample ID | 1409639-002AMS | SampType: | MS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-----------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | S-2 South | Batch ID: | 15287 | RunNo: | 21265 | | | | | |
| Prep Date: | 9/15/2014 | Analysis Date: | 9/17/2014 | SeqNo: | 620348 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.1 | 0.048 | 0.9524 | 0.1056 | 99.3 | 77.4 | 142 | | | |
| Toluene | 0.95 | 0.048 | 0.9524 | 0.01092 | 99.0 | 77 | 132 | | | |
| Ethylbenzene | 1.0 | 0.048 | 0.9524 | 0.05727 | 102 | 77.6 | 134 | | | |
| Xylenes, Total | 3.0 | 0.095 | 2.857 | 0.1233 | 101 | 77.4 | 132 | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 0.9524 | | 104 | 80 | 120 | | | |

| Sample ID | 1409639-002AMSD | SampType: | MSD | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | S-2 South | Batch ID: | 15287 | RunNo: | 21265 | | | | | |
| Prep Date: | 9/15/2014 | Analysis Date: | 9/17/2014 | SeqNo: | 620349 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.97 | 0.048 | 0.9524 | 0.1056 | 91.1 | 77.4 | 142 | 7.74 | 20 | |
| Toluene | 0.87 | 0.048 | 0.9524 | 0.01092 | 89.9 | 77 | 132 | 9.45 | 20 | |
| Ethylbenzene | 0.91 | 0.048 | 0.9524 | 0.05727 | 90.0 | 77.6 | 134 | 11.5 | 20 | |
| Xylenes, Total | 2.7 | 0.095 | 2.857 | 0.1233 | 91.1 | 77.4 | 132 | 10.1 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 0.9524 | | 104 | 80 | 120 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1409639

RcptNo: 1

Received by/date: [Signature] 09/13/14

Logged By: Lindsay Mangin 9/13/2014 8:00:00 AM [Signature]

Completed By: Lindsay Mangin 9/13/2014 8:55:58 AM [Signature]

Reviewed By: IO 09/15/14

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 | 1.8 | Good | Yes | | | |

CHAIN OF CUSTODY RECORD

|  APEX Office Location <u>Aztec, NM</u> | | Laboratory: <u>Hall Environmental</u> Address: <u>Albuquerque, NM</u> | | ANALYSIS REQUESTED <div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;"> 8021 BT6X 8015 T6H (Geo/D60) </div> | | | | | | | | | | Lab use only Due Date: | | | | | | | | | | |
|--|---------|--|------|---|--------------------------------|--|-----------|--|---------|------------------------|-----------|-----|------------------------------|---|---------------|--|--|--|--|--|--|--|--|--|
| | | Contact: <u>Andy Freeman</u> Phone: <u>(505) 345-3975</u> PO/SO #: <u>Direct Bill Enterprise</u> | | | | | | | | | | | | Temp. of coolers when received (C°): <u>1.8</u> 1 2 3 4 5 Page _____ of _____ | | | | | | | | | | |
| Project Manager <u>Heather Woods</u> | | | | Sampler's Name <u>Heather Woods</u> | | | | Sampler's Signature <u>Heather M. Woods</u> | | | | | | | | | | | | | | | | |
| Proj. No. <u>7030414 G034</u> | | Project Name <u>Lateral K-31 Sept 2014 (release A)</u> | | | | No/Type of Containers <u>4 oz</u> | | | | | | | | | | | | | | | | | | |
| Matrix | Date | Time | COED | GLASS | Identifying Marks of Sample(s) | Start Depth | End Depth | VOA | AG 1 LI | 250 ml | Glass Jar | P/O | Lab Sample ID (Lab Use Only) | | | | | | | | | | | |
| S | 9/11/14 | 1630 | | | S-1 South | | | | | | 1 | | X | X | 1409639 - 001 | | | | | | | | | |
| S | 9/11/14 | 1635 | | | S-2 South | | | | | | 1 | | X | X | - 002 | | | | | | | | | |
| S | 9/11/14 | 1640 | | | S-3 South | | | | | | 1 | | X | X | - 003 | | | | | | | | | |
| S | 9/11/14 | 1645 | | | S-4 South | | | | | | 1 | | X | X | - 004 | | | | | | | | | |
| S | 9/11/14 | 1650 | | | S-5 South | | | | | | 1 | | X | X | - 005 | | | | | | | | | |
| S | 9/11/14 | 1655 | | | S-6 South | | | | | | 1 | | X | X | - 006 | | | | | | | | | |
| S | 9/11/14 | 1700 | | | S-7 South | | | | | | 1 | | X | X | - 007 | | | | | | | | | |
| Turn around time <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input type="checkbox"/> 100% Rush | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by (Signature) <u>Heather M. Woods</u> | | Date: <u>9/12/14</u> Time: <u>1035</u> | | Received by (Signature) <u>Matthew Walters</u> | | Date: <u>9/12/14</u> Time: <u>1035</u> | | NOTES: <u>Direct Bill to Enterprise Field Services</u> <u>Attn: Tom Long</u> <u>* per e-mail from Heather Woods on 10/31/14, Added South to all sample IDs KMS 11/3/14</u> | | | | | | | | | | | | | | | | |
| Relinquished by (Signature) <u>Matthew Walters</u> | | Date: <u>9/12/14</u> Time: <u>1800</u> | | Received by (Signature) <u>[Signature]</u> | | Date: <u>9/13/14</u> Time: <u>0800</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 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

November 04, 2014

Heather Woods
APEX AZTEC
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (505) 716-2787
FAX (505) 334-5204

RE: Enterprise Lateral K-31 South

OrderNo.: 1410259

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/7/2014 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued October 08, 2014.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX AZTEC **Client Sample ID:** S-8 South
Project: Enterprise Lateral K-31 South **Collection Date:** 10/6/2014 3:40:00 PM
Lab ID: 1410259-001 **Matrix:** SOIL **Received Date:** 10/7/2014 6:55:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 10/7/2014 10:21:50 AM | 15755 |
| Surr: DNOP | 86.3 | 57.9-140 | | %REC | 1 | 10/7/2014 10:21:50 AM | 15755 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 3.6 | | mg/Kg | 1 | 10/7/2014 10:23:50 AM | R21722 |
| Surr: BFB | 91.8 | 80-120 | | %REC | 1 | 10/7/2014 10:23:50 AM | R21722 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | 0.037 | 0.036 | | mg/Kg | 1 | 10/7/2014 10:23:50 AM | R21722 |
| Toluene | ND | 0.036 | | mg/Kg | 1 | 10/7/2014 10:23:50 AM | R21722 |
| Ethylbenzene | ND | 0.036 | | mg/Kg | 1 | 10/7/2014 10:23:50 AM | R21722 |
| Xylenes, Total | ND | 0.072 | | mg/Kg | 1 | 10/7/2014 10:23:50 AM | R21722 |
| Surr: 4-Bromofluorobenzene | 97.3 | 80-120 | | %REC | 1 | 10/7/2014 10:23:50 AM | R21722 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX AZTEC **Client Sample ID:** S-9 South
Project: Enterprise Lateral K-31 South **Collection Date:** 10/6/2014 4:40:00 PM
Lab ID: 1410259-002 **Matrix:** SOIL **Received Date:** 10/7/2014 6:55:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 10/7/2014 10:43:09 AM | 15755 |
| Surr: DNOP | 90.4 | 57.9-140 | | %REC | 1 | 10/7/2014 10:43:09 AM | 15755 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.4 | | mg/Kg | 1 | 10/7/2014 10:52:22 AM | R21722 |
| Surr: BFB | 94.6 | 80-120 | | %REC | 1 | 10/7/2014 10:52:22 AM | R21722 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.044 | | mg/Kg | 1 | 10/7/2014 10:52:22 AM | R21722 |
| Toluene | ND | 0.044 | | mg/Kg | 1 | 10/7/2014 10:52:22 AM | R21722 |
| Ethylbenzene | ND | 0.044 | | mg/Kg | 1 | 10/7/2014 10:52:22 AM | R21722 |
| Xylenes, Total | ND | 0.088 | | mg/Kg | 1 | 10/7/2014 10:52:22 AM | R21722 |
| Surr: 4-Bromofluorobenzene | 99.7 | 80-120 | | %REC | 1 | 10/7/2014 10:52:22 AM | R21722 |

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 |
| | 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 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S Spike Recovery outside accepted recovery limits | |

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** APEX AZTEC**Client Sample ID:** S-10 South**Project:** Enterprise Lateral K-31 South**Collection Date:** 10/6/2014 4:48:00 PM**Lab ID:** 1410259-003**Matrix:** SOIL**Received Date:** 10/7/2014 6:55:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 10/7/2014 11:04:25 AM | 15755 |
| Surr: DNOP | 92.3 | 57.9-140 | | %REC | 1 | 10/7/2014 11:04:25 AM | 15755 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 3.1 | | mg/Kg | 1 | 10/7/2014 11:20:53 AM | R21722 |
| Surr: BFB | 96.2 | 80-120 | | %REC | 1 | 10/7/2014 11:20:53 AM | R21722 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | 0.085 | 0.031 | | mg/Kg | 1 | 10/7/2014 11:20:53 AM | R21722 |
| Toluene | 0.031 | 0.031 | | mg/Kg | 1 | 10/7/2014 11:20:53 AM | R21722 |
| Ethylbenzene | ND | 0.031 | | mg/Kg | 1 | 10/7/2014 11:20:53 AM | R21722 |
| Xylenes, Total | 0.087 | 0.062 | | mg/Kg | 1 | 10/7/2014 11:20:53 AM | R21722 |
| Surr: 4-Bromofluorobenzene | 101 | 80-120 | | %REC | 1 | 10/7/2014 11:20:53 AM | R21722 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410259

04-Nov-14

Client: APEX AZTEC
Project: Enterprise Lateral K-31 South

| Sample ID MB-15755 | SampType: MBLK | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 15755 | RunNo: 21712 | | | | | | | | |
| Prep Date: 10/7/2014 | Analysis Date: 10/7/2014 | SeqNo: 637426 | | | 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 | 7.5 | | 10.00 | | 75.4 | 57.9 | 140 | | | |

| Sample ID LCS-15755 | SampType: LCS | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 15755 | RunNo: 21712 | | | | | | | | |
| Prep Date: 10/7/2014 | Analysis Date: 10/7/2014 | SeqNo: 637427 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 58 | 10 | 50.00 | 0 | 115 | 68.6 | 130 | | | |
| Surr: DNOP | 4.2 | | 5.000 | | 84.2 | 57.9 | 140 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410259

04-Nov-14

Client: APEX AZTEC
Project: Enterprise Lateral K-31 South

| | | | | | | | | | | |
|-------------------------------|---------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | 5ML RB | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | R21722 | RunNo: | 21722 | | | | | |
| Prep Date: | | Analysis Date: | 10/7/2014 | SeqNo: | 637912 | 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 | | 92.3 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|----------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | 2.5UG GRO LCS | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | R21722 | RunNo: | 21722 | | | | | |
| Prep Date: | | Analysis Date: | 10/7/2014 | SeqNo: | 637913 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 20 | 5.0 | 25.00 | 0 | 78.8 | 65.8 | 139 | | | |
| Surr: BFB | 990 | | 1000 | | 99.0 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|-----------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | 1410259-001AMS | SampType: | MS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | S-8 South | Batch ID: | R21722 | RunNo: | 21722 | | | | | |
| Prep Date: | | Analysis Date: | 10/7/2014 | SeqNo: | 637914 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 17 | 3.6 | 17.97 | 0 | 92.2 | 71.8 | 132 | | | |
| Surr: BFB | 600 | | 718.9 | | 83.8 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|------------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | 1410259-001AMSD | SampType: | MSD | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | S-8 South | Batch ID: | R21722 | RunNo: | 21722 | | | | | |
| Prep Date: | | Analysis Date: | 10/7/2014 | SeqNo: | 637915 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21 | 3.6 | 17.97 | 0 | 116 | 71.8 | 132 | 22.8 | 20 | R |
| Surr: BFB | 580 | | 718.9 | | 80.8 | 80 | 120 | 0 | 0 | |

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410259
04-Nov-14

Client: APEX AZTEC
Project: Enterprise Lateral K-31 South

| Sample ID: 5ML RB | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: R21722 | RunNo: 21722 | | | | | | | | |
| Prep Date: | Analysis Date: 10/7/2014 | SeqNo: 637934 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.050 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.98 | | 1.000 | | 97.8 | 80 | 120 | | | |

| Sample ID: 100NG BTEX LCS | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: R21722 | RunNo: 21722 | | | | | | | | |
| Prep Date: | Analysis Date: 10/7/2014 | SeqNo: 637935 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.1 | 0.050 | 1.000 | 0 | 107 | 80 | 120 | | | |
| Toluene | 1.1 | 0.050 | 1.000 | 0 | 106 | 80 | 120 | | | |
| Ethylbenzene | 1.1 | 0.050 | 1.000 | 0 | 108 | 80 | 120 | | | |
| Xylenes, Total | 3.2 | 0.10 | 3.000 | 0 | 107 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 104 | 80 | 120 | | | |

| Sample ID: 1410259-002AMS | SampType: MS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: S-9 South | Batch ID: R21722 | RunNo: 21722 | | | | | | | | |
| Prep Date: | Analysis Date: 10/7/2014 | SeqNo: 637936 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.95 | 0.044 | 0.8787 | 0.01798 | 106 | 77.4 | 142 | | | |
| Toluene | 0.95 | 0.044 | 0.8787 | 0.007434 | 107 | 77 | 132 | | | |
| Ethylbenzene | 0.97 | 0.044 | 0.8787 | 0.02104 | 108 | 77.6 | 134 | | | |
| Xylenes, Total | 2.9 | 0.088 | 2.636 | 0.04567 | 107 | 77.4 | 132 | | | |
| Surr: 4-Bromofluorobenzene | 0.31 | | 0.8787 | | 35.2 | 80 | 120 | | | S |

| Sample ID: 1410259-002AMSD | SampType: MSD | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|-------|----------|------|
| Client ID: S-9 South | Batch ID: R21722 | RunNo: 21722 | | | | | | | | |
| Prep Date: | Analysis Date: 10/7/2014 | SeqNo: 637937 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.1 | 0.050 | 1.000 | 0.01798 | 104 | 77.4 | 142 | 1.75 | 20 | |
| Toluene | 1.1 | 0.050 | 1.000 | 0.007434 | 106 | 77 | 132 | 0.797 | 20 | |
| Ethylbenzene | 1.1 | 0.050 | 1.000 | 0.02104 | 106 | 77.6 | 134 | 2.14 | 20 | |
| Xylenes, Total | 3.2 | 0.10 | 3.000 | 0.04567 | 106 | 77.4 | 132 | 1.23 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.29 | | 1.000 | | 28.6 | 80 | 120 | 0 | 0 | S |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1410259

RcptNo: 1

Received by/date: At 10/07/14

Logged By: Anne Thorne 10/7/2014 8:55:00 AM *Anne Thorne*

Completed By: Anne Thorne 10/7/2014 *Anne Thorne*

Reviewed By: CS 10/07/14

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 | | | |

Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1410259

RcptNo: 1

Received by/date: AA 10/07/14

Logged By: Anne Thorne 10/7/2014 6:55:00 AM *Anne Thorne*

Completed By: Anne Thorne 10/7/2014 *Anne Thorne*

Reviewed By: CS 10/07/14

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: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> 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

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------|---|-------------|---|--------------------------------|---------------------------------------|-------------|--|--------|---|---|--|--|--|---|---|--|--|---|--------|-----------|-----|---|
|  APEX Office Location <u>Aztec, NM</u> | | Laboratory: <u>Hall Environmental</u> Address: _____ Contact: <u>Andy Freeman</u> Phone: _____ | | ANALYSIS REQUESTED <div style="border: 1px solid black; width: 100%; height: 100%; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div> | | | | | | | | | | Lab use only Due Date: _____ Temp. of coolers when received (C°): <table border="1" style="width:100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td> </tr> </table> Page _____ of _____ | | | | | 1 | 2 | 3 | 4 | 5 |
| | | 1 | 2 | | | | | | | | | | | 3 | 4 | 5 | | | | | | | |
| Project Manager <u>Heather Woods</u> Sampler's Name _____ | | PO/SO #: <u>Direct Bill Enterprise</u> Sampler's Signature _____ | | | | | | | | | | | | | | | | | | | | | |
| Proj. No. _____ | | Project Name <u>Enterprise Lateral K-31 South</u> | | | | No/Type of Containers <u>1-402</u> | | | | Lab Sample ID (Lab Use Only) <div style="font-size: 2em; font-weight: bold;">4/1</div> | | | | | | | | | | | | | |
| Matrix | Date | Time | Code | Stand | Identifying Marks of Sample(s) | Start Depth | End Depth | VOA | A/G 1L | | | | | | | | | | | 250 ml | Glass Jar | P/O | |
| S | 10/6/14 | 1540 | | | S-8 South | | | | | | X | | | | | | | | | | | | |
| S | 10/6/14 | 1640 | | | S-9 South | | | | | | X | | | | | | | | | | | | |
| S | 10/6/14 | 1648 | | | S-10 South | | | | | | X | | | | | | | | | | | | |
| Turn around time <input type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input checked="" type="checkbox"/> 100% Rush Results End of Day <u>10/7/14</u> | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by (Signature) | | Date: | Time: | Received by (Signature) | | Date: | Time: | NOTES: Direct Bill to Enterprise Field Services Attn: Tom Long per e-mail from Heather Woods, added "South" to all Sample IDs. kms 11/3/14 | | | | | | | | | | | | | | | |
| <u>Heather M. Woods</u> | | <u>10/6/14</u> | <u>1910</u> | <u>[Signature]</u> | | <u>10/6/14</u> | <u>1910</u> | | | | | | | | | | | | | | | | |
| <u>[Signature]</u> | | <u>10/6/14</u> | <u>1925</u> | <u>[Signature]</u> | | <u>10/7/14</u> | <u>0655</u> | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by (Signature) | | Date: | Time: | Received by (Signature) | | Date: | Time: | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by (Signature) | | Date: | Time: | Received by (Signature) | | Date: | Time: | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by (Signature) | | Date: | Time: | Received by (Signature) | | Date: | Time: | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

8021 BTEX
8015 TPH

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

November 04, 2014

Heather Woods
APEX AZTEC
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (505) 716-2787
FAX (505) 334-5204

RE: Lateral K-31 South

OrderNo.: 1410435

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/9/2014 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued October 10, 2014.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX AZTEC

Client Sample ID: S-11 South

Project: Lateral K-31 South

Collection Date: 10/8/2014 10:15:00 AM

Lab ID: 1410435-001

Matrix: MEOH (SOIL)

Received Date: 10/9/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 10/9/2014 11:49:32 AM | 15814 |
| Surr: DNOP | 79.8 | 57.9-140 | | %REC | 1 | 10/9/2014 11:49:32 AM | 15814 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 3.3 | | mg/Kg | 1 | 10/9/2014 10:24:08 AM | R21782 |
| Surr: BFB | 90.1 | 80-120 | | %REC | 1 | 10/9/2014 10:24:08 AM | R21782 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.033 | | mg/Kg | 1 | 10/9/2014 10:24:08 AM | R21782 |
| Toluene | ND | 0.033 | | mg/Kg | 1 | 10/9/2014 10:24:08 AM | R21782 |
| Ethylbenzene | ND | 0.033 | | mg/Kg | 1 | 10/9/2014 10:24:08 AM | R21782 |
| Xylenes, Total | ND | 0.066 | | mg/Kg | 1 | 10/9/2014 10:24:08 AM | R21782 |
| Surr: 4-Bromofluorobenzene | 93.6 | 80-120 | | %REC | 1 | 10/9/2014 10:24:08 AM | R21782 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX AZTEC

Client Sample ID: S-12 South

Project: Lateral K-31 South

Collection Date: 10/8/2014 11:20:00 AM

Lab ID: 1410435-002

Matrix: MEOH (SOIL)

Received Date: 10/9/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 10/9/2014 12:32:52 PM | 15814 |
| Surr: DNOP | 80.7 | 57.9-140 | | %REC | 1 | 10/9/2014 12:32:52 PM | 15814 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 3.1 | | mg/Kg | 1 | 10/9/2014 10:52:46 AM | R21782 |
| Surr: BFB | 89.8 | 80-120 | | %REC | 1 | 10/9/2014 10:52:46 AM | R21782 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.031 | | mg/Kg | 1 | 10/9/2014 10:52:46 AM | R21782 |
| Toluene | ND | 0.031 | | mg/Kg | 1 | 10/9/2014 10:52:46 AM | R21782 |
| Ethylbenzene | ND | 0.031 | | mg/Kg | 1 | 10/9/2014 10:52:46 AM | R21782 |
| Xylenes, Total | ND | 0.063 | | mg/Kg | 1 | 10/9/2014 10:52:46 AM | R21782 |
| Surr: 4-Bromofluorobenzene | 92.1 | 80-120 | | %REC | 1 | 10/9/2014 10:52:46 AM | R21782 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410435

04-Nov-14

Client: APEX AZTEC
Project: Lateral K-31 South

| | | | | | | | | | | |
|-----------------------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | MB-15814 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 15814 | RunNo: | 21764 | | | | | |
| Prep Date: | 10/9/2014 | Analysis Date: | 10/9/2014 | SeqNo: | 639341 | 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 | 9.5 | | 10.00 | | 95.5 | 57.9 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | LCS-15814 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 15814 | RunNo: | 21764 | | | | | |
| Prep Date: | 10/9/2014 | Analysis Date: | 10/9/2014 | SeqNo: | 639456 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 63 | 10 | 50.00 | 0 | 126 | 68.6 | 130 | | | |
| Surr: DNOP | 3.9 | | 5.000 | | 77.1 | 57.9 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|----------------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | 1410435-001AMS | SampType: | MS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | S-11 South | Batch ID: | 15814 | RunNo: | 21764 | | | | | |
| Prep Date: | 10/9/2014 | Analysis Date: | 10/9/2014 | SeqNo: | 639668 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 63 | 9.9 | 49.26 | 0 | 129 | 40.1 | 152 | | | |
| Surr: DNOP | 4.0 | | 4.926 | | 80.6 | 57.9 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|-----------------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | 1410435-001AMSD | SampType: | MSD | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | S-11 South | Batch ID: | 15814 | RunNo: | 21764 | | | | | |
| Prep Date: | 10/9/2014 | Analysis Date: | 10/9/2014 | SeqNo: | 639696 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 65 | 9.9 | 49.46 | 0 | 132 | 40.1 | 152 | 3.27 | 32.1 | |
| Surr: DNOP | 4.1 | | 4.946 | | 82.3 | 57.9 | 140 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410435

04-Nov-14

Client: APEX AZTEC
Project: Lateral K-31 South

| | | | | | | | | | | |
|-------------------------------|--------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | MB-15760 MK | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | R21782 | RunNo: | 21782 | | | | | |
| Prep Date: | | Analysis Date: | 10/9/2014 | SeqNo: | 640373 | 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 | 880 | | 1000 | | 87.7 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|---------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | LCS-15760 MK | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | R21782 | RunNo: | 21782 | | | | | |
| Prep Date: | | Analysis Date: | 10/9/2014 | SeqNo: | 640374 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 26 | 5.0 | 25.00 | 0 | 103 | 65.8 | 139 | | | |
| Surr: BFB | 970 | | 1000 | | 96.9 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410435

04-Nov-14

Client: APEX AZTEC
Project: Lateral K-31 South

| | | | | | | | | | | |
|----------------------------|--------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-15760 MK | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | PBS | Batch ID: | R21782 | RunNo: | 21782 | | | | | |
| Prep Date: | | Analysis Date: | 10/9/2014 | SeqNo: | 640422 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.050 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.91 | | 1.000 | | 90.7 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|---------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-15760 MK | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | LCSS | Batch ID: | R21782 | RunNo: | 21782 | | | | | |
| Prep Date: | | Analysis Date: | 10/9/2014 | SeqNo: | 640423 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.97 | 0.050 | 1.000 | 0 | 97.0 | 80 | 120 | | | |
| Toluene | 0.96 | 0.050 | 1.000 | 0 | 96.5 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 100 | 80 | 120 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 99.6 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.97 | | 1.000 | | 97.5 | 80 | 120 | | | |

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

Sample Log-In Check List

Client Name: **APEX AZTEC**

Work Order Number: **1410435**

RcptNo: **1**

Received by/date: *[Signature]* 10/09/14

Logged By: **Lindsay Mangin** **10/9/2014 7:00:00 AM** *[Signature]*

Completed By: **Lindsay Mangin** **10/9/2014 7:40:36 AM** *[Signature]*

Reviewed By: *[Signature]* 10/09/14

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
(Note discrepancies on chain of custody)
- 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? Yes No
(If no, notify customer for authorization.)

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 | 3.1 | Good | Yes | | | |

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

RECEIVED

FEB 17 2015

NMOCD

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 Avenue, Farmington NM 87401 | Telephone No. (505) 599-2286 |
| Facility Name Chacon Jicarilla Apache D#102 | Facility Type Natural Gas Gathering line |

| | | |
|--------------------------------|--------------------------------|---------|
| Surface Owner Jicarilla Tribal | Mineral Owner Jicarilla Tribal | API No. |
|--------------------------------|--------------------------------|---------|

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|------------|
| K | 26 | 23N | 3W | | | | | Rio Arriba |

Latitude 36.197473

Longitude -107.133945

NATURE OF RELEASE

| | | |
|--|---|--|
| Type of Release Natural Gas Condensate and Water | Volume of Release Estimated at 3-5 bbls of Fluids | Volume Recovered None |
| Source of Release: Pipeline freeze and rupture. | Date and Hour of Occurrence Unknown | Date and Hour of Discovery 1/10/2013 @ 13:02 hours |
| Was Immediate Notice Given? Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not | If YES, To Whom? Bryce Hammond and Hobson Sandoval | |
| By Whom? Aaron Dailey | Date and Hour 1/11/2013 @ 08:00 hours | |
| Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.* The release entered a small ephemeral wash.

Describe Cause of Problem and Remedial Action Taken.*

Third party producer discovered and reported to Enterprise a pipeline leak on the Enterprise Chacon Jicarilla Apache D #102 natural gas gathering pipeline. Enterprise supervisor dispatched two technicians to investigate and verify the leak. These technicians verified, isolated, depressurized and applied LOTO to the pipeline. A contractor was dispatched to clean up the impacted ice, snow and soil and haul it to an OCD approved land farm facility. Further remediation work to the affected soil was conducted when weather conditions permitted. On In March 2013 approval was granted by the Jicarilla Apache Environmental Protection Office (JAEPO) to install a soil vapor extraction (SVE) units at the release location and conduct quarterly vapor monitoring. In December 2013, at the request of JAEPO no work was performed at the site due to weather conditions and restricted access.

Describe Area Affected and Cleanup Action Taken.* In December 2014, after approval from JAEPO, Enterprise initiated excavation activities to remove the remaining subsurface contaminants. Final excavation dimension measured approximately fifty (50) feet long ranging from five (5) to eight (8) wide ranging from two (2) to six (5) feet deep. Approximately 43 cubic yards of hydrocarbon impacted soil was excavated and transported to an approved NMOCD land farm facility. A third party environmental contractor 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 E. Fields</i> | OIL CONSERVATION DIVISION | |
| Printed Name: Jon E. Fields | Approved by: Environmental Specialist: <i>[Signature]</i> | |
| Title: Director, Environmental | Approval Date: 4/13/15 | Expiration Date: |
| E-mail Address: jefields@eprod.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 2-9-2015 Phone: (713) 381-6684 | | |

* Attach Additional Sheets If Necessary

#NCS 1510349816

(84)

Enterprise Products
Chacon Jicarilla Apache D #102
Latitude North 36.197476°, Longitude West -107.133945°
Unit K (NE ¼, SW ¼) Section 26 T23N R3W
Sandoval County, New Mexico
January 8, 2015



Submitted To:
Enterprise Products
Field Environmental-San Juan Basin
614 Reilly Avenue
Farmington, NM 87401

Submitted By:
Souder, Miller & Associates
401 West Broadway
Farmington, NM 87401
(505)325-7535



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| 4.0 | Summary of Field Activities | 2 |
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| 6.0 | Conclusions and Recommendations | 5 |
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Figures:

Figure 1: Vicinity Map

Figure 2: SVE Layout and Construction Diagram

Figure 3: Site and Soil Contaminant Concentration Map

Tables:

Table 1: Release Information

Table 2: Site Ranking

Table 3: Summary of Laboratory Analysis

Table 4: Summary of Initial Field Screening Results

Table 5: Summary of Field Screening Results

Appendices:

Appendix A: Photographic Documentation

Appendix B: Soil Disposal Documentation

Appendix D: Laboratory Analytical Reports

1.0 Executive Summary

In January and March of 2014, Souder, Miller & Associates (SMA) responded to excavate the hydrocarbon release associated with the Chacon Jicarilla Apache D #102 well tie. The release was initially reported on January 10, 2013 and was a result of a steel pipeline freeze due to exposure to ambient temperatures. SMA returned to the site in October and December of 2014 to monitor, further delineate and oversee the excavation of contaminated soil.

TABLE 1: RELEASE INFORMATION

| Name | Chacon Jicarilla Apache D #102 Pipeline Release | | | | |
|--|---|------------|--------------------------|--------|------------|
| Location | Latitude/Longitude | | Section, Township, Range | | |
| | | 36.197476° | -107.133945° | Unit K | Section 26 |
| Date Reported | January 10, 2013 | | | | |
| Reported to | Tom Long | | | | |
| Land Owner | Jicarilla Apache Nation | | | | |
| Reported To | NM Oil Conservation Division (NMOCD) Jicarilla Apache Environmental Protection Office | | | | |
| Diameter of Pipeline | 4 inches | | | | |
| Source of Release | Freezing | | | | |
| Release Contents | Natural Gas Liquids/Condensate | | | | |
| Release Volume | Unknown | | | | |
| Nearest Waterway | Unnamed tributary of Valles Arroyo Wash | | | | |
| Depth to Groundwater | Estimated to be less than 50 feet | | | | |
| Nearest Domestic Water Source | Greater than 1,000 feet | | | | |
| NMOCD Ranking | 40 | | | | |
| SMA Response Dates | | | | | |
| Subcontractors | Industrial Mechanical Inc. (IMI) | | | | |
| Disposal Facility | Envirotech | | | | |
| Yd ³ Contaminated Soil Excavated and Disposed | 42.5 (Reported on Completed C-138) | | | | |

2.0 Introduction

On behalf of Enterprise Products Operating, LLC. (Enterprise), SMA has prepared this report that describes remediation of the hydrocarbon release associated with the Chacon Jicarilla Apache D #102 pipeline. The release is located in Unit K (NE ¼, SW ¼) Section 26 Township 23 North, Range 3 West, 36.197476° N, -107.133945° W, Sandoval County, New Mexico. Figure 1, Vicinity Map, illustrates the location of the release.

3.0 Site Ranking and Land Jurisdiction

The release site is located in a tributary of Arroyo Valles wash on land owned by the Jicarilla Apache Nation and governed by the Jicarilla Apache Environmental Protection Office (JAEPO). The site is at an elevation of approximately 7,350 feet above sea level. After evaluation of the

site using aerial photography and topographic maps, depth to groundwater is estimated to be less than 50 feet below ground surface (bgs).

SMA searched the New Mexico Office of the State Engineer online water well data base for water wells in the vicinity of the release. No wells were located in Sections 10, 32 and 34. The physical location of this release is within the jurisdiction of JAEPO. In the absence of JAEPO regulations related to oil and gas releases, this release defaults to the most stringent New Mexico Oil Conservation Division's (OCD) soil remediation standard. This release location has been assigned an OCD ranking of 40, which requires a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm total benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 100 ppm total petroleum hydrocarbons (TPH). Table 2 illustrates site ranking rationale.

4.0 Summary of Field Activities

On January 11, 2013, SMA responded to a release at the Chacon Jicarilla Apache D #102 well tie. The release was from a frozen pipeline spanning an arroyo that ruptured. SMA was contracted to excavate the impacted snow and ice with hand tools. The surface area stain measured approximately 12 feet in diameter. Surface stained snow and ice was excavated to depths between 4" and 6". During excavation activities, a calibrated photo ionization detector (PID) detected volatile organics up to 450 parts per million in the breathing zone of the excavation area. A personal four gas meter detected reduced oxygen levels and elevated hydrogen sulfide levels. SMA personnel terminated excavation activities and left the area for health and safety reasons. One thirty-gallon drum of impacted snow and ice was transported to Carson Compressor station and placed in the petroleum contaminated soil container for temporary containment.

On January 14, 2013, SMA returned to the site to continue removal of the impacted snow and ice. Breathing zone air was screened and volatile organic levels were at acceptable levels within the release area. Four additional 30-gallon containers of impacted snow and ice were removed from the excavation area and brought to the Carson Compressor station for temporary containment. One composite soil sample was collected from below the point of release. The soil was submitted to Hall Environmental Analytical Laboratory for analysis per EPA Methods 8021 BTEX and 8015B Diesel Range Organics (DRO)/Gasoline Range Organics (GRO). Laboratory analysis results are summarized in Table 3 and a copy of the Laboratory Report is included in Appendix A.

SMA returned to the site on January 18, 2013 to assess the lateral and horizontal extent of the release. Seven soil borings were installed with a hand auger and soil samples were collected at one foot intervals and field screened with a PID.

Laboratory soil samples were collected from the bottom of each soil boring. A total of seven soil samples were collected and submitted to Hall Environmental Analytical Laboratory for analysis per EPA Methods 8021 BTEX and 8015B DRO/GRO. Laboratory analysis results for this sampling event are also summarized in Table 3 and copies of the Laboratory Reports are included in Appendix A.

Due to the inclement weather conditions and snow, SMA was instructed to wait to complete

remedial activities. On March 15, 2013, SMA installed four soil vapor extraction (SVE) wells near the point of release to remove subsurface hydrocarbon vapors. Each SVE well was installed to a total depth of seven feet below ground surface (bgs). Each well was constructed with two-inch inside diameter 0.010 inch slotted PVC well screen from total depth to two feet bgs and two feet of two-inch inside diameter solid PVC well casing from two feet bgs to ground surface. The annulus was backfilled with 10/20 silica sand to one foot bgs. Then 3/8" bentonite chips were placed from one foot bgs to ground surface and hydrated to seal the annulus.

SVE wells SVE-1 and SVE-2 were plumbed together and a single modified roof vent was installed above SVE-1. SVE wells SVE-3 and SVE-4 were plumbed together and a modified roof vent was installed directly above SVE-4. Photographs of the remediation system are included in Appendix C. Figure 2 illustrates the layout of the SVE remediation system and construction details of each SVE well. Initial hydrocarbon vapor concentrations from each SVE vent were measured at approximately 60 ppm with a calibrated PID.

Mr. Hobson Sandoval with JAEPO was on site to observe the installation of the remediation system. While onsite, Mr. Hobson instructed Enterprise to remove additional contaminated soil from the wash because he was concerned that the surface contaminants would wash down stream. Subsequently, Enterprise representatives reported to SMA that IMI excavated the hydrocarbon impacted soil from the wash with hand tools from March 20, 2013 to March 27, 2013. Approximately 12 cubic yards of hydrocarbon contaminated soil was removed and transported to Envirotech Land Farm for proper disposal. The excavation was backfilled with clean imported material from the Jicarilla Apache Reservation. No samples were collected for laboratory analysis during the excavation because of the SVE system implementation and future scheduled soil sampling.

4.1.1 Vapor Monitoring and Soil Sampling

The first vapor monitoring event was conducted on June 18, 2013. During this event three soil borings were hand augured to a total depth of four feet bgs each. Samples were collected at one foot intervals and field screened with a calibrated PID. The PID readings ranged from 55 – 4,884 ppm. The hydrocarbon vapor effluent from SVE wells was screened with a PID over a five minute period with results recorded every minute. The readings from both SVE wells ranged from 54 – 66 ppm. Results of the initial and quarterly field screenings are included in Tables 4 and 5, respectively. At the direction of Enterprise representatives, no laboratory samples were collected due to the elevated PID field screening results.

The second monitoring event was conducted on September 20, 2013. During this event, three soil borings were hand augured to a total depth of six feet bgs. Samples were collected at one foot intervals and field screened with a calibrated PID. The PID results ranged from 0 ppm to 4,963 ppm. Each SVE fan was screened for two minutes with no detection of hydrocarbon vapors. At the direction of Enterprise representatives, no laboratory samples were collected due to the elevated soil screening results.

On October 17, 2014 SMA conducted a monitoring event with oversight from Jonathan Kelly from the OCD-Aztec, NM field office and Hobson Sandoval. During this sampling event eight soil borings were advanced to a total depth of five feet and one boring to a total depth of ten feet. Samples were collected at one foot intervals and field screened with a calibrated PID. The

PID results ranged from 0.3-1707 ppm. One SVE ventilation fan had been broken off. The other SVE ventilation fan was screened for approximately one minute with no detection of hydrocarbon vapors. One soil sample was collected from each of the eight borings from the interval with the highest PID reading and from the bottom of SB-5, with a total depth of 10 feet. The soil samples were submitted to Hall Environmental Analytical Laboratory for analysis per EPA Methods 8021 BTEX and 8015 Diesel Range Organics (DRO)/Gasoline Range Organics (GRO). Laboratory analysis results are summarized in Table 3 and a copy of the Laboratory Report is included in Appendix A.

Laboratory results from the October 17, 2014 monitoring event indicated remaining contamination approximately 1 to 2 feet bgs in soil borings SB-3, SB-4, and SB-5, which were located approximately 28 to 90 feet down wash from the release point. Concentrations of DRO and GRO ranged from 56 mg/kg to 2700 mg/kg and 160 mg/kg to 750 mg/kg, respectively. Due to the shallow extent of contamination, SMA was again contracted to excavate the existing contamination with hand tools.

On December 2, 3, and 8, 2014, SMA and Industrial Mechanical Inc. (IMI) excavated an area of 40 feet in length by 5 feet wide with depths ranging from 2.0 to 4.0 feet using hand tools. During excavation activities, soil samples were collected and field screened using a properly calibrated PID and a Petroflag soil testing kit for total petroleum hydrocarbons. PID results ranged from 248.8 to 2932 ppm with the highest reading located at the south center base section of the excavation. Field screening result summaries can be found in Table 5. Petroflag total petroleum hydrocarbon results ranged from 15.0 to 1865 mg/kg with the highest reading located at the south base portion of the excavation. Three laboratory soil samples were collected from the north base, north center base and south center base. Analysis confirmed the north sections were below NMOCD soil remediation standards and south sections were still above NMOCD soil remediation standards.

SMA and IMI returned to the site on December 12, 2014. Approximately 18 cubic yards of clean backfill material was placed into the north section of the excavation. IMI continued excavating the south portion of the excavation using a mini-excavator and a skid-steer, and SMA oversaw excavation activities. During excavation activities, soil samples were collected and field screened using a properly calibrated PID and a Petroflag soil testing kit for total petroleum hydrocarbons. PID results ranged from 6.2 to 514 ppm with the highest reading located at the south central base section of the excavation. Field screening results summaries can be found in Table 5. Petroflag total petroleum hydrocarbon results ranged from 15.0 to 79 mg/kg with the highest reading located at the south center base portion of the excavation. Laboratory soil samples were collected from the north base, north center base and south center base. Analysis confirmed the south section was still above NMOCD soil remediation standards.

SMA and IMI returned to the site on December 23, IMI continued excavating the south portion of the excavation using a mini-excavator and a skid-steer, and SMA oversaw excavation activities. During excavation, soil samples were collected and field screened using a properly calibrated PID and a Petroflag soil testing kit for total petroleum hydrocarbons. PID results ranged from 631 to 873 ppm with the highest reading located on the south wall of the excavation. Field screening results summaries can be found in Table 5. Petroflag total petroleum hydrocarbon results ranged from 112 to 670 mg/kg with the highest reading located on south wall of the excavation. Laboratory soil samples were not collected due to the unexpected spike in

contamination. SMA and IMI made plans to return with rubber tire backhoes to remove all remaining contamination.

SMA and IMI returned to the site on December 31, 2014. IMI continued excavating the south portion of the excavation using two rubber tire back hoes, and SMA oversaw excavation activities. During excavation activities, soil samples were collected and field screened using a properly calibrated PID and a Petroflag soil testing kit for total petroleum hydrocarbons. PID results ranged from 1.2 to 6.6 ppm with the highest reading located in the base section of the excavation. Field screening results summaries can be found in Table 5. Petroflag total petroleum hydrocarbon result for the south wall was 30 mg/kg, no other samples were tested with the Petroflag as PID readings were low. Laboratory soil samples were collected from the base, west wall, east wall and south wall. Analysis confirmed the excavation extents are below NMOCD soil remediation standards.

The final excavation measured approximately 50 feet long, by 5 to 8 feet wide with depths ranging from 2.0 to 6.5 feet bgs, covering an area of approximately 291 square feet. The several stages of excavation resulted in the southern portion having the largest and deepest dimensions, finally measuring 8 feet wide, 14.5 feet long and 6.5 feet deep. Approximately 42.5 cubic yards of contaminated soil was removed and disposed of at Envirotech, a permitted landfarm facility, located near Crouch Mesa, NM. Disposal documentation can be found in Appendix D.

5.0 Conclusions and Recommendations

As noted in Section 3.0 of this report, the absence of JAEPO regulations related to oil and gas releases, this release defaults to the most stringent NMOCD soil remediation standard. This release location has been assigned a NMOCD ranking of 40.

Laboratory analytical results for all final extent samples collected were at/or below NMOCD remediation soil standards of 10 parts per million (ppm) benzene, 50 ppm combined benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 100 ppm total petroleum hydrocarbons, based on the site ranking. Soil contaminant concentrations are illustrated in Figure 3. A summary of laboratory analysis is included in Table 3. Laboratory reports are included in Appendix C

SMA recommends no further action at the Chacon Jicarilla Apache D #102 pipeline release location.

6.0 Closure and Limitations

The scope of our services consisted of the performance of a preliminary spill assessment and stabilization, regulatory liaison, oversight and control of remediation operations, disposal arrangements and documentation, project management, monitoring and preparation of this summary report. All work has been performed in accordance with generally accepted professional environmental consulting practices.

If there are any questions regarding this report, please contact either Steve Moskal or Reid Allan at 505-325-7535.

SOUDER, MILLER & ASSOCIATES

Submitted by:



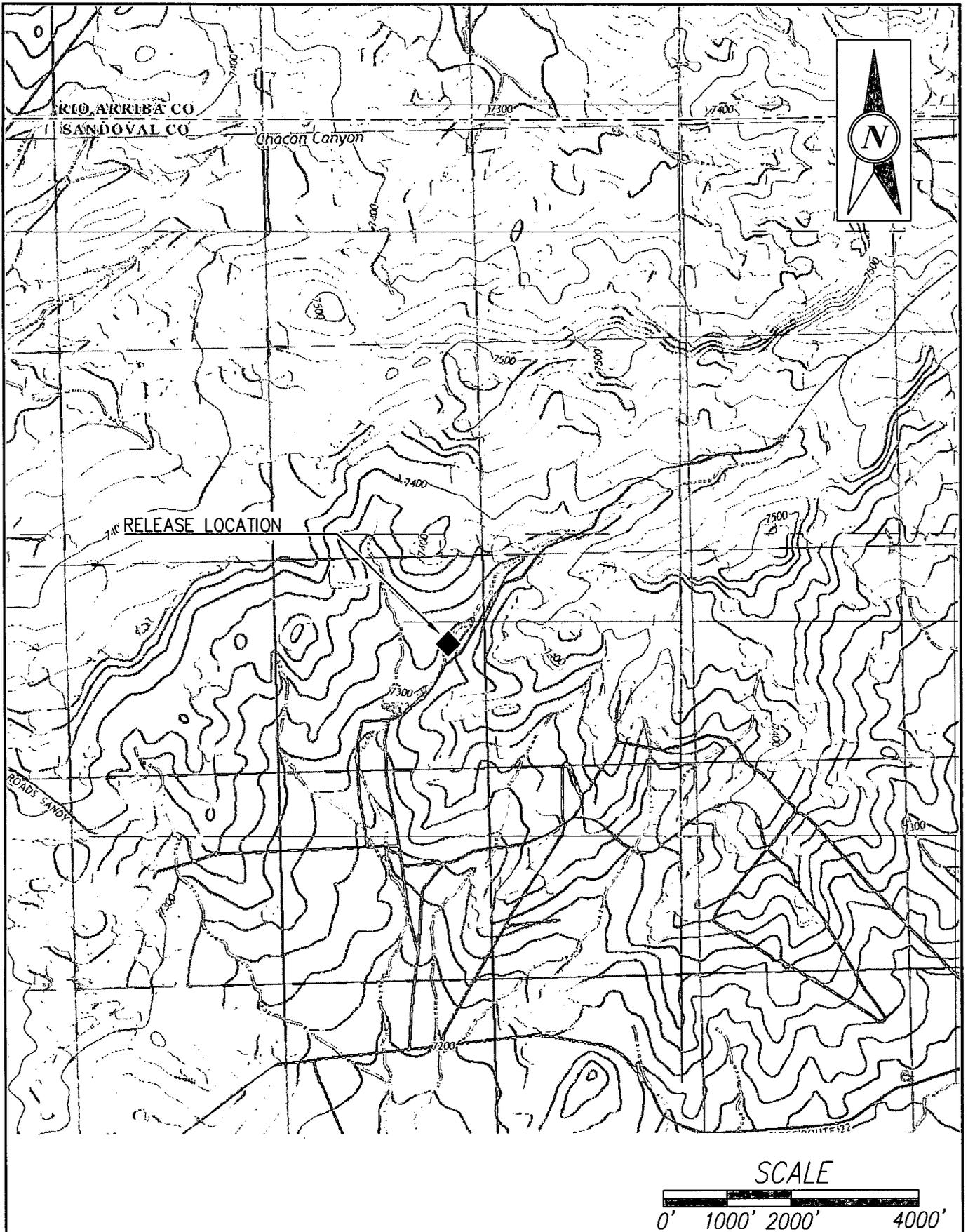
Jesse Sprague
Staff Scientist

Reviewed by:



Reid S. Allan, PG
Principal Scientist

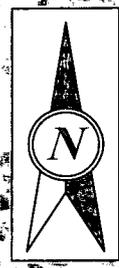
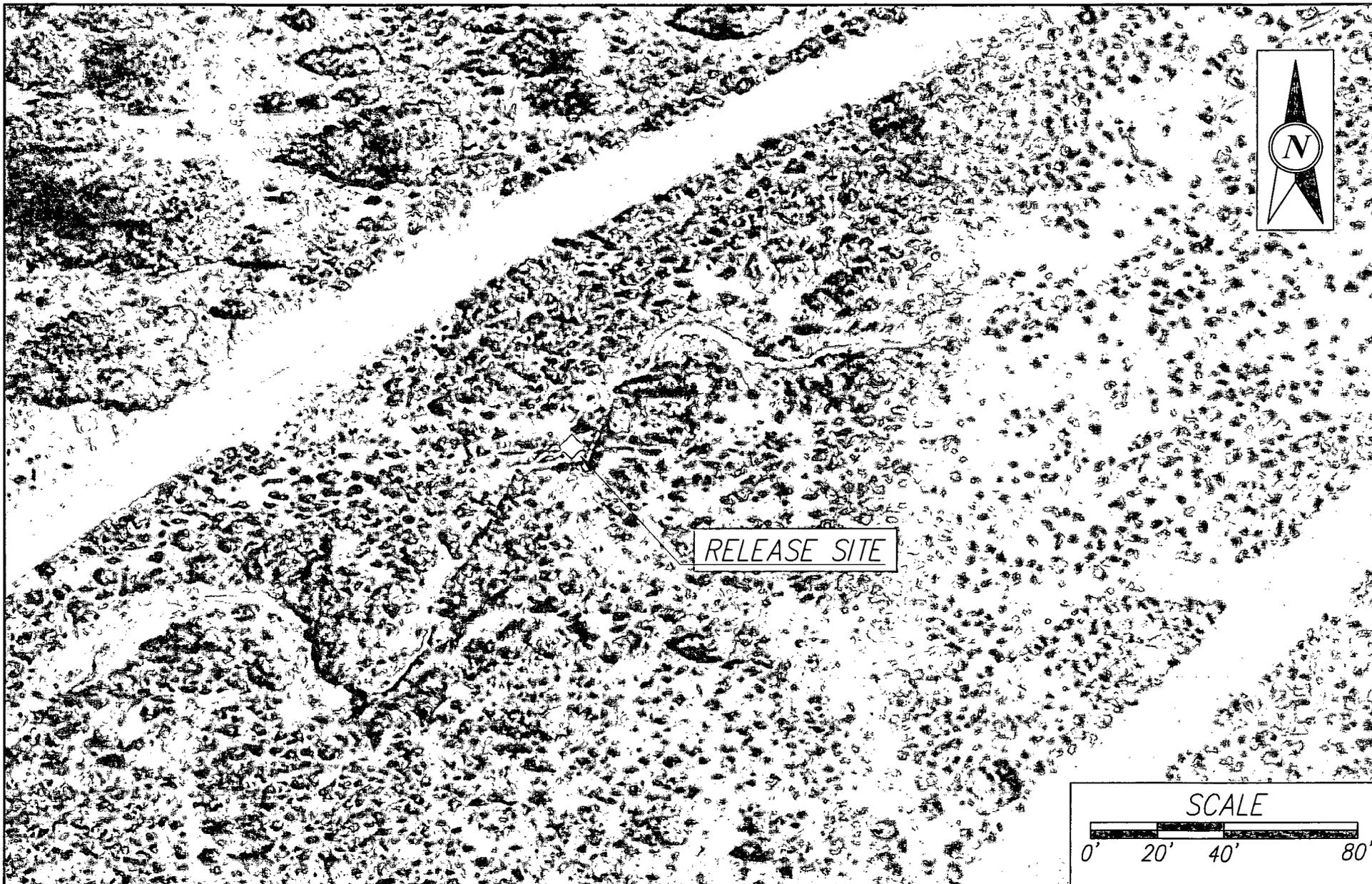
Figures



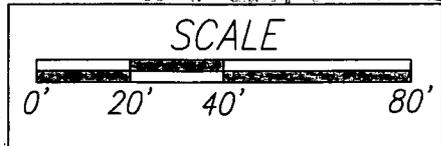
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|--------------------------|--------------|------------------------|--|
| ENTERPRISE | | FARMINGTON, NEW MEXICO | |
| Designed SM | Drawn DJB | Checked RSA | |
| Date: JANUARY, 2015 | | | |
| Scale: Horiz: 1" = 2000' | | Vert: NA | |
| Project No: 5122855 | | | |
| Sheet: 1 | | | |

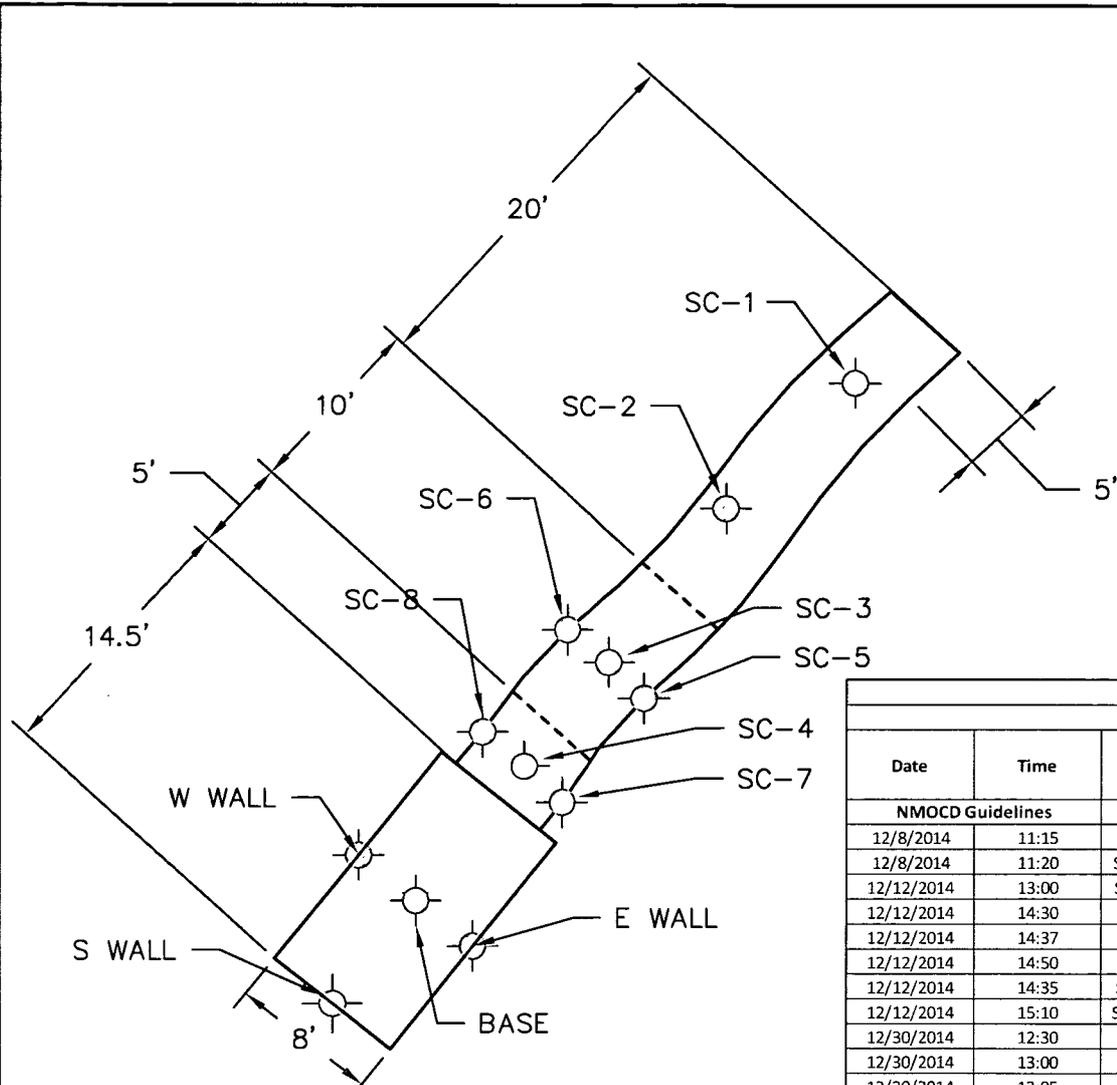
THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS PERMITTED BY SOUTHERN AND DATE



RELEASE SITE



| | | | | | | | | | | | | | | | | | | | |
|--|---|---|------------------------|---|----------------|--------------|----------------|---------------------|--|--|-----------------------------------|--|--|---------------------|--|--|----------|--|--|
|  | SOUDER, MILLER & ASSOCIATES 401 West Broadway Avenue Farmington, NM 87401-5907 Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 326-0045 www.soudermiller.com | ENTERPRISE SANDOVAL COUNTY, NEW MEXICO | FARMINGTON, NEW MEXICO | <table border="1"> <tr> <td>Designed SM</td> <td>Drawn DJB</td> <td>Checked RSA</td> </tr> <tr> <td colspan="3">Date: JANUARY, 2015</td> </tr> <tr> <td colspan="3">Scale: Horiz: 1"=40' Vert: N/A</td> </tr> <tr> <td colspan="3">Project No: 5122855</td> </tr> <tr> <td colspan="3">Sheet: 2</td> </tr> </table> | Designed SM | Drawn DJB | Checked RSA | Date: JANUARY, 2015 | | | Scale: Horiz: 1"=40' Vert: N/A | | | Project No: 5122855 | | | Sheet: 2 | | |
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| Project No: 5122855 | | | | | | | | | | | | | | | | | | | |
| Sheet: 2 | | | | | | | | | | | | | | | | | | | |
| SITE LOCATION MAP CHACON JICARILLA APACHE D #102 SECTION 26, T23N, R3W | | | | | | | | | | | | | | | | | | | |
| Serving the Southwest & Rocky Mountains Albuquerque, Farmington, Las Cruces, Roswell, Santa Fe, NM - El Paso, TX Center - Grand Junction - Montrose, CO - Safford, AZ - Vernal, UT | | | | | | | | | | | | | | | | | | | |
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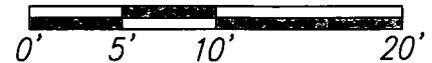
LEGEND

⊕ SOIL SAMPLE LOCATION

SOIL RESULTS IN mg/kg REPORTED 12/22/14

| LABORATORY ANALYTICAL SUMMARY | | | | | | | | |
|-------------------------------|-------|--------------------|-------------------------------|-----------------|-----------------|---------------------|------------------|---------------|
| Soil Samples | | | | | | | | |
| Date | Time | Sample ID | Sample Depth (Feet BGS) | Method 8015 GRO | Method 8015 DRO | Method 8021 Benzene | Method 8021 BTEX | |
| NMOCD Guidelines | | | NMOCD Site Ranking: 40 | | 100 ppm | | 10 ppm | 50 ppm |
| 12/8/2014 | 11:15 | SC-1 N Base | 2 | 24 | 16 | <0.027 | 0.12 | |
| 12/8/2014 | 11:20 | SC-2 N Center Base | 2 | 13 | 28 | <0.027 | 0.07 | |
| 12/12/2014 | 13:00 | SC-3 S Center Base | 2 | 9 | 53 | <0.030 | <0.059 | |
| 12/12/2014 | 14:30 | SC-4 S Base #1 | 6.5 | <2.4 | <9.9 | <0.024 | <0.049 | |
| 12/12/2014 | 14:37 | SC-5 NE Wall | 0-3.0 | 32 | <9.9 | <0.027 | 0.23 | |
| 12/12/2014 | 14:50 | SC-6 NW Wall | 0-3.0 | 14 | 82 | <0.022 | 0.11 | |
| 12/12/2014 | 14:35 | SC-7 Center E Wall | 0-6.5 | <2.9 | <10 | <0.029 | <0.058 | |
| 12/12/2014 | 15:10 | SC-8 Center W Wall | 0-6.5 | <2.1 | <10 | <0.021 | <0.042 | |
| 12/30/2014 | 12:30 | S Wall | 0-6.5 | <2.4 | <9.8 | <0.024 | <0.047 | |
| 12/30/2014 | 13:00 | E wall | 0-6.5 | <2.6 | <10 | <0.026 | <0.051 | |
| 12/30/2014 | 13:05 | W Wall | 0-6.5 | <3.1 | <10 | <0.031 | <0.061 | |
| 12/30/2014 | 13:10 | Base | 0-6.5 | <3.2 | <9.9 | <0.032 | <0.063 | |

SCALE



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ENTERPRISE

FARMINGTON, NEW MEXICO

SOIL CONTAMINANT CONCENTRATION MAP
CHACON JICARILLA APACHE D #102
SECTION 26, T23N, R3W

SANDOVAL COUNTY, NEW MEXICO

| | | |
|-----------------------------------|--------------|----------------|
| Designed SM | Drawn DJB | Checked RSA |
| Date: JANUARY, 2015 | | |
| Scale: Horiz: 1"=10' Vert: N/A | | |
| Project No: 5122855 | | |
| Sheet: | | 3 |

Tables

| Depth to Groundwater | NMOCD Numeric Rank for this Site | Source for Ranking | Notes |
|---|----------------------------------|---|---|
| < 50 BGS = 20 | 20 | Topographic Maps and Field Verification | Groundwater estimated to be <50 feet at the Chacon Jicarilla D#102 site. |
| 50' to 99' = 10 | | | |
| >100' = 0 | | | |
| Ranking Criteria for Horizontal Distance to Nearest Surface Water | NMOCD Numeric Rank for this Site | Source for Ranking | Notes |
| < 200' = 20 | 20 | Topographic Maps and Field Verification | Release is located in an unnamed tributary of Valles Arroyo Wash |
| 200'-1000' = 10 | | | |
| >1000' | | | |
| Ranking Criteria for Horizontal Distance to a Water Well or Water Source | NMOCD Numeric Rank for this Site | Source for Ranking | Notes |
| <1000' from a water source? <200' for a private domestic water source? YES OR NO to BOTH. YES = 20, NO = 0 | | NM State Engineer Water Well Database | No recorded water wells located within 1,000 feet or within a 1 mile radius |
| Total Site Ranking | | 40 | |
| Soil Remedation Standards | 0 to 9 | 10 to 19 | >19 |
| Benzene | 10 PPM | 10 PPM | 10 PPM |
| BTEX | 50 PPM | 50 PPM | 50 PPM |
| TPH | 5000 PPM | 1000 PPM | 100 PPM |



Table 3: Summary of Petroflag Field Screening Results

| PETROFLAG FIELD SCREENING RESULTS SUMMARY | | | | | |
|--|-------|---------------------------|----------------------------|----------------|--------------------------------|
| Date | Time | Field Screening Reference | Sample Depth (Feet BGS) | TPH (Mg/Kg) | Lab Sample Collected Y/N |
| 12/3/2014 | 11:15 | SC-1 S End Base | 1.5 | 1865.0 | Y |
| 12/8/2014 | 11:15 | SC-1 N Base | 2.0 | 121.0 | Y |
| 12/8/2014 | 11:20 | SC-2 N Center Base | 2.0 | 248.8 | Y |
| 12/8/2014 | 11:25 | SC-3 S Center Base | 2.0 | 339.0 | Y |
| 12/8/2014 | 11:35 | SC-4 S Base | 4.0 | 1118.0 | N |
| 12/12/2014 | 13:00 | SC-3 S Center Base | 2.0 | 79.0 | N |
| 12/12/2014 | 14:30 | SC-4 S Base | 6.5 | 15.0 | N |
| 12/23/2014 | 12:00 | E Wall | 0-6.5 | 112.0 | N |
| 12/23/2014 | 13:15 | W Wall | 0-6.5 | 728.0 | N |
| 12/23/2014 | 13:30 | S Wall | 0-6.5 | 873.0 | N |
| 12/30/2014 | 12:30 | S Wall | 0-6.5 | 30.0 | Y |

Enterprise Products
Table 3: Laboratory Results Summary
(mg/kg)

Chacon Jicarilla Apache D #102
Pipeline Release
1/8/2015

| LABORATORY ANALYTICAL SUMMARY | | | | | | | |
|--------------------------------------|-------|------------------------|-------------------------|-----------------|-----------------|---------------------|------------------|
| Soil Samples | | | | | | | |
| Date | Time | Sample ID | Sample Depth (Feet BGS) | Method 8015 GRO | Method 8015 DRO | Method 8021 Benzene | Method 8021 BTEX |
| NMOCD Guidelines | | NMOCD Site Ranking: 40 | | 100 ppm | | 10 ppm | 50 ppm |
| 1/14/2012 | 15:20 | SC-1 | 0.33 | 7300 | 4000 | 9.6 | 1022.6 |
| 1/18/2013 | 12:39 | SB-1 | 6 | 7.2 | 47 | <0.047 | <0.095 |
| 1/18/2013 | 12:45 | SB-2 | 6 | <4.9 | 23 | <0.049 | <0.099 |
| 1/18/2013 | 12:35 | SB-3 | 6 | <4.9 | 26 | <0.049 | <0.098 |
| 1/18/2013 | 12:28 | SB-4 | 4 | <4.7 | 21 | <0.047 | <0.095 |
| 1/18/2013 | 12:58 | SB-5 | 4 | <4.8 | 16 | <0.048 | <0.096 |
| 1/18/2013 | 13:07 | SB-6 | 5 | <4.7 | 15 | <0.047 | <0.093 |
| 1/18/2013 | 13:16 | SB-7 | 5 | <4.7 | <10 | <0.047 | <0.095 |
| 10/17/2014 | 10:59 | SB-1 @ 5' | 5' | <4.8 | <10 | <0.048 | <0.095 |
| 10/17/2014 | 11:09 | SB-3 @ 2' | 2' | 56 | 160 | <0.048 | <0.27 |
| 10/17/2014 | 11:13 | SB-2 @ 5' | 5' | <5.0 | <10 | <0.050 | <0.1 |
| 10/17/2014 | 11:17 | SB-4 @ 1' | 1' | 370 | 570 | <0.050 | 2.2 |
| 10/17/2014 | 11:27 | SB-5 @ 1' | 1' | 2700 | 750 | <0.25 | 92 |
| 10/17/2014 | 11:45 | SB-6 @ 5' | 5' | <4.9 | <10 | <0.049 | <0.097 |
| 10/17/2014 | 11:50 | SB-7 @ 5' | 5' | <4.8 | <10 | <0.048 | <0.096 |
| 10/17/2014 | 12:02 | SB-8 @ 2' | 2' | <4.9 | <10 | <0.049 | <0.097 |
| 10/17/2014 | 12:40 | SB-5 @ 10' | 10' | <4.8 | <10 | <0.048 | <0.096 |
| 12/3/2014 | 11:15 | SC-1 South Base | 1.5 | 2700 | 760 | <0.96 | 132.1 |
| 12/8/2014 | 11:15 | SC-1 N Base | 2 | 24 | 16 | <0.027 | 0.12 |
| 12/8/2014 | 11:20 | SC-2 N C. Base | 2 | 13 | 28 | <0.027 | 0.07 |
| 12/8/2014 | 11:25 | SC-3 S C. Base | 2 | 520 | 140 | <0.13 | 7.7 |
| 12/12/2014 | 13:00 | SC-3 S C. Base | 2 | 9 | 53 | <0.030 | <0.059 |
| 12/12/2014 | 14:30 | SC-4 S Base #1 | 6.5 | <2.4 | <9.9 | <0.024 | <0.049 |
| 12/12/2014 | 14:37 | SC-5 NE Wall | 0-3.0 | 32 | <9.9 | <0.027 | 0.23 |
| 12/12/2014 | 14:50 | SC-6 NW Wall | 0-3.0 | 14 | 82 | <0.022 | 0.11 |
| 12/12/2014 | 14:35 | SC-7 C. E Wall | 0-6.5 | <2.9 | <10 | <0.029 | <0.058 |
| 12/12/2014 | 15:10 | SC-8 C. W Wall | 0-6.5 | <2.1 | <10 | <0.021 | <0.042 |
| 12/12/2014 | 14:43 | SC-9 SE Wall | 0-6.5 | 740 | 88 | 0.23 | 11 |
| 12/12/2014 | 14:46 | SC-10 SW Wall | 0-6.5 | 110 | 34 | <0.031 | 0.99 |
| 12/12/2014 | 16:48 | SC-11 S Base #2 | 0-6.5 | 3.36 | <10 | <0.028 | 0.096 |
| 12/12/2014 | 14:50 | SC-12 S Wall | 0-6.5 | 150 | 130 | 0.035 | 0.92 |
| 12/30/2014 | 12:30 | S Wall | 0-6.5 | <2.4 | <9.8 | <0.024 | <0.047 |
| 12/30/2014 | 13:00 | E wall | 0-6.5 | <2.6 | <10 | <0.026 | <0.051 |
| 12/30/2014 | 13:05 | W Wall | 0-6.5 | <3.1 | <10 | <0.031 | <0.061 |
| 12/30/2014 | 13:10 | Base | 0-6.5 | <3.2 | <9.9 | <0.032 | <0.063 |



Table 4: Summary of Initial Field Screening Results

| FIELD SCREENING RESULTS SUMMARY | | | | | | |
|---------------------------------|-------|---------------------------|-------------------------|-------------------|---------------------------|--------------------------|
| Date | Time | Field Screening Reference | Sample Depth (Feet BGS) | PID Reading (ppm) | Petroflag Reading (mg/kg) | Lab Sample Collected Y/N |
| 1/18/2013 | 11:24 | SB-1 @1' | 1.0 | 1475.0 | | |
| 1/18/2013 | 11:28 | SB-1 @2' | 2.0 | 1606.0 | | |
| 1/18/2013 | 11:32 | SB-1 @3' | 3.0 | 1623.0 | | |
| 1/18/2013 | 11:34 | SB-1 @4' | 4.0 | 1328.0 | | |
| 1/18/2013 | 11:35 | SB-2 @1' | 1.0 | 846.0 | | |
| 1/18/2013 | 11:37 | SB-2 @2' | 2.0 | 1391.0 | | |
| 1/18/2013 | 11:39 | SB-2 @3' | 3.0 | 1812.0 | | |
| 1/18/2013 | 11:41 | SB-2 @ 4' | 4.0 | 1312.0 | | |
| 1/18/2013 | 11:43 | SB-3 @1' | 1.0 | 1152.0 | | |
| 1/18/2013 | 11:45 | SB-3 @2' | 2.0 | 1349.0 | | |
| 1/18/2013 | 11:48 | SB-3 @3' | 3.0 | 542.0 | | |
| 1/18/2013 | 11:50 | SB-3 @4' | 4.0 | 556.0 | | |
| 1/18/2013 | 11:52 | SB-4 @1' | 1.0 | 538.0 | | |
| 1/18/2013 | 12:37 | SB-1 @5' | 5.0 | 867.0 | | |
| 1/18/2013 | 12:39 | SB-1 @6' | 6.0 | 625.0 | | Y |
| 1/18/2013 | 12:42 | SB-2 @5' | 5.0 | 340.0 | | |
| 1/18/2013 | 12:45 | SB-2 @6' | 6.0 | 610.0 | | Y |
| 1/18/2013 | 12:33 | SB-3 @5' | 5.0 | 305.0 | | |
| 1/18/2013 | 12:35 | SB-3 @6' | 6.0 | 245.0 | | Y |
| 1/18/2013 | 12:18 | SB-4 @2' | 2.0 | 94.0 | | |
| 1/18/2013 | 12:23 | SB-4 @3' | 3.0 | 243.0 | | |
| 1/18/2013 | 12:28 | SB-4 @ 4' | 4.0 | 247.0 | | Y |
| 1/18/2013 | 12:50 | SB-5 @1' | 1.0 | 148.0 | | |
| 1/18/2013 | 12:52 | SB-5 @2' | 1.0 | 158.0 | | |
| 1/18/2013 | 12:55 | SB-5 @3' | 3.0 | 72.0 | | |
| 1/18/2013 | 12:58 | SB-5 @4' | 2.0 | 224.0 | | Y |
| 1/18/2013 | 13:00 | SB-6 @1' | 1.0 | 1388.0 | | |
| 1/18/2013 | 13:02 | SB-6 @2' | 2.0 | 733.0 | | |
| 1/18/2013 | 13:04 | SB-6 @3' | 3.0 | 617.0 | | |
| 1/18/2013 | 13:05 | SB-6 @4' | 4.0 | 300.0 | | |
| 1/18/2013 | 13:07 | SB-6 @5' | 5.0 | 617.0 | | Y |
| 1/18/2013 | 13:08 | SB-7 @1' | 1.0 | 45.0 | | |
| 1/18/2013 | 13:10 | SB-7 @2' | 2.0 | 30.0 | | |
| 1/18/2013 | 13:12 | SB-7 @3' | 3.0 | 31.0 | | |
| 1/18/2013 | 13:14 | SB-7 @4' | 4.0 | 65.0 | | |
| 1/18/2013 | 13:16 | SB-7 @5' | 5.0 | 30.0 | | Y |



Table 5: Summary of Field Screening Results

| FIELD SCREENING RESULTS SUMMARY | | | | | | |
|--|-------|---------------------------|-------------------------|-------------------|---------------------------|--------------------------|
| Date | Time | Field Screening Reference | Sample Depth (Feet BGS) | PID Reading (ppm) | Petroflag Reading (mg/kg) | Lab Sample Collected Y/N |
| Soil Borings | | | | | | |
| 6/18/2013 | 11:10 | SB-1 | 1.0 | 3039.0 | NA | N |
| 6/18/2013 | 11:12 | SB-1 | 2.0 | 4058.0 | NA | N |
| 6/18/2013 | 11:14 | SB-1 | 3.0 | 1630.0 | NA | N |
| 6/18/2013 | 11:15 | SB-1 | 4.0 | 1591.0 | NA | N |
| 6/18/2013 | 11:16 | SB-2 | 1.0 | 55.0 | NA | N |
| 6/18/2013 | 11:18 | SB-2 | 2.0 | 4580.0 | NA | N |
| 6/18/2013 | 11:20 | SB-2 | 3.0 | 4884.0 | NA | N |
| 6/18/2013 | 11:57 | SB-2 | 4.0 | 3743.0 | NA | N |
| 6/18/2013 | 11:25 | SB-3 | 1.0 | 785.0 | NA | N |
| 6/18/2013 | 11:27 | SB-3 | 2.0 | 267.0 | NA | N |
| 6/18/2013 | 11:29 | SB-3 | 3.0 | 113.0 | NA | N |
| 6/18/2013 | 11:59 | SB-3 | 4.0 | 69.0 | NA | N |
| SVE Hydrocarbon Vapor Removal | | | | | | |
| 6/18/2013 | 11:44 | SVE-1 | Vent Fan | 64.0 | NA | NA |
| 6/18/2013 | 11:45 | SVE-1 | Vent Fan | 66.0 | NA | NA |
| 6/18/2013 | 11:46 | SVE-1 | Vent Fan | 63.0 | NA | NA |
| 6/18/2013 | 11:47 | SVE-1 | Vent Fan | 61.0 | NA | NA |
| 6/18/2013 | 11:48 | SVE-1 | Vent Fan | 59.0 | NA | NA |
| 6/18/2013 | 11:49 | SVE-2 | Vent Fan | 54.0 | NA | NA |
| 6/18/2013 | 11:50 | SVE-2 | Vent Fan | 57.0 | NA | NA |
| 6/18/2013 | 11:51 | SVE-2 | Vent Fan | 51.0 | NA | NA |
| 6/18/2013 | 11:52 | SVE-2 | Vent Fan | 61.0 | NA | NA |
| 6/18/2013 | 11:53 | SVE-2 | Vent Fan | 58.0 | NA | NA |
| Soil Borings | | | | | | |
| 9/20/2013 | 11:04 | SB-1 | 1.0 | 11.0 | NA | N |
| 9/20/2013 | 11:05 | SB-1 | 2.0 | 72.0 | NA | N |
| 9/20/2013 | 11:06 | SB-1 | 3.0 | 18.0 | NA | N |
| 9/20/2013 | 11:07 | SB-1 | 4.0 | 82.0 | NA | N |
| 9/20/2013 | 11:08 | SB-1 | 5.0 | 31.0 | NA | N |
| 9/20/2013 | 11:09 | SB-1 | 6.0 | 22.0 | NA | N |
| 9/20/2013 | 11:14 | SB-2 | 1.0 | 311.0 | NA | N |
| 9/20/2013 | 11:15 | SB-2 | 2.0 | 440.0 | NA | N |
| 9/20/2013 | 11:16 | SB-2 | 3.0 | 158.0 | NA | N |
| 9/20/2013 | 11:17 | SB-2 | 4.0 | 156.0 | NA | N |
| 9/20/2013 | 11:18 | SB-2 | 5.0 | 31.0 | NA | N |
| 9/20/2013 | 11:19 | SB-2 | 6.0 | 22.0 | NA | N |
| 9/20/2013 | 11:27 | SB-3 | 1.0 | 0.0 | NA | N |



Table 5: Summary of Field Screening Results

| FIELD SCREENING RESULTS SUMMARY | | | | | | |
|---------------------------------|-------|-----------------------------|-------------------------|-------------------|---------------------------|--------------------------|
| Date | Time | Field Screening Reference | Sample Depth (Feet BGS) | PID Reading (ppm) | Petroflag Reading (mg/kg) | Lab Sample Collected Y/N |
| 9/20/2013 | 11:28 | SB-3 | 2.0 | 34.0 | NA | N |
| 9/20/2013 | 11:29 | SB-3 | 3.0 | 31.0 | NA | N |
| 9/20/2013 | 11:30 | SB-3 | 4.0 | 27.0 | NA | N |
| 9/20/2013 | 11:31 | SB-3 | 5.0 | 0.0 | NA | N |
| 9/20/2013 | 11:32 | SB-3 | 6.0 | 0.0 | NA | N |
| 9/20/2013 | 11:41 | SB-4 | 1.0 | 0.0 | NA | N |
| 9/20/2013 | 11:42 | SB-4 | 2.0 | 0.0 | NA | N |
| 9/20/2013 | 11:43 | SB-4 | 3.0 | 4963.0 | NA | N |
| 9/20/2013 | 11:44 | SB-4 | 4.0 | 4731.0 | NA | N |
| 9/20/2013 | 11:45 | SB-4 | 5.0 | 3659.0 | NA | N |
| 9/20/2013 | 11:46 | SB-4 | 6.0 | 2453.0 | NA | N |
| SVE Hydrocarbon Vapor Removal | | | | | | |
| 9/20/2013 | 10:49 | SVE-1 | Vent Fan | 0.0 | NA | NA |
| 9/20/2013 | 10:51 | SVE-1 | Vent Fan | 0.0 | NA | NA |
| 9/20/2013 | 10:53 | SVE-2 | Vent Fan | 0.0 | NA | NA |
| 9/20/2013 | 10:55 | SVE-2 | Vent Fan | 0.0 | NA | NA |
| Soil Borings | | | | | | |
| 10/17/2014 | 10:55 | SB-1 just below pipeline | 1.0 | 0.7 | N | N |
| 10/17/2014 | 10:57 | | 2.0 | 0.6 | N | N |
| 10/17/2014 | 10:57 | | 3.0 | 0.6 | N | N |
| 10/17/2014 | 10:58 | | 4.0 | 1.6 | N | N |
| 10/17/2014 | 10:59 | | 5.0 | 2.1 | N | Y |
| 10/17/2014 | 11:04 | SB-2 hillside SW of PL | 1.0 | 0.3 | N | N |
| 10/17/2014 | 11:05 | | 2.0 | 0.5 | N | N |
| 10/17/2014 | 11:09 | | 3.0 | 0.7 | N | N |
| 10/17/2014 | 11:10 | | 4.0 | 0.7 | N | N |
| 10/17/2014 | 11:13 | | 5.0 | 0.8 | N | Y |
| 10/17/2014 | 11:08 | SB-3 N bank @ PL | 1.0 | 231.0 | N | N |
| 10/17/2014 | 11:09 | | 2.0 | 2064.0 | N | Y |
| 10/17/2014 | 11:11 | | 3.0 | 23.5 | N | N |
| 10/17/2014 | 11:13 | | 4.0 | 23.2 | N | N |
| 10/17/2014 | 11:15 | | 5.0 | 17.6 | N | N |
| 10/17/2014 | 11:17 | SB-4 Downstream in wash 15' | 1.0 | 2127.0 | N | Y |
| 10/17/2014 | 11:19 | | 2.0 | 140.9 | N | N |
| 10/17/2014 | 11:21 | | 3.0 | 72.6 | N | N |
| 10/17/2014 | 11:23 | | 4.0 | 87.9 | N | N |
| 10/17/2014 | 11:26 | | 5.0 | 58.7 | N | N |
| 10/17/2014 | 11:27 | SB-5 Downstream 30' | 1.0 | 2514.0 | N | Y |
| 10/17/2014 | 11:30 | | 2.0 | 1850.0 | N | N |
| 10/17/2014 | 11:31 | | 3.0 | 1957.0 | N | N |
| 10/17/2014 | 11:32 | | 4.0 | 2272.0 | N | N |



Table 5: Summary of Field Screening Results

| FIELD SCREENING RESULTS SUMMARY | | | | | | |
|---------------------------------|-------|--------------------------------|-------------------------|-------------------|---------------------------|--------------------------|
| Date | Time | Field Screening Reference | Sample Depth (Feet BGS) | PID Reading (ppm) | Petroflag Reading (mg/kg) | Lab Sample Collected Y/N |
| 10/17/2014 | 11:33 | | 5.0 | 2453.0 | N | N |
| 10/17/2014 | 12:13 | | 6.0 | 2512.0 | N | N |
| 10/17/2014 | 12:14 | | 7.0 | 517.0 | N | N |
| 10/17/2014 | 12:16 | | 8.0 | 354.0 | N | N |
| 10/17/2014 | 12:35 | | 9.0 | 150.6 | N | N |
| 10/17/2014 | 12:40 | | 10.0 | 351.7 | N | Y |
| 10/17/2014 | 11:36 | SB-6 Downstream 55' | 1.0 | 8.5 | N | N |
| 10/17/2014 | 11:38 | | 2.0 | 7.2 | N | N |
| 10/17/2014 | 11:40 | | 3.0 | 6.3 | N | N |
| 10/17/2014 | 11:42 | | 4.0 | 227.0 | N | N |
| 10/17/2014 | 11:45 | | 5.0 | 28.0 | N | N |
| 10/17/2014 | 11:45 | On Bank between SB-5 and SB-6 | 1.0 | 3.0 | N | N |
| 10/17/2014 | 11:47 | | 2.0 | 3.6 | N | N |
| 10/17/2014 | 11:48 | | 3.0 | 2.9 | N | N |
| 10/17/2014 | 11:49 | | 4.0 | 5.2 | N | N |
| 10/17/2014 | 11:50 | | 5.0 | 10.2 | N | Y |
| 10/17/2014 | 12:00 | SB-8 Upstream of release point | 1.0 | 6.8 | N | N |
| 10/17/2014 | 12:02 | | 2.0 | 177.4 | N | Y |
| 10/17/2014 | 12:04 | | 3.0 | 6.8 | N | N |
| 10/17/2014 | 12:06 | | 4.0 | 10.5 | N | N |
| 10/17/2014 | 12:08 | | 5.0 | 5.3 | N | N |
| 12/3/2014 | 11:15 | South End Base | 1.5 | 1707.0 | 1865.0 | Y |
| 12/8/2014 | 11:15 | SC-1 N Base | 2.0 | 499.9 | 121.0 | Y |
| 12/8/2014 | 11:20 | SC-2 N Center Base | 2.0 | 248.8 | 248.8 | Y |
| 12/8/2014 | 11:25 | SC-3 S Center Base | 2.0 | 2932.0 | 339.0 | Y |
| 12/8/2014 | 11:35 | SC-4 S Base Test Pit | 4.0 | 1452.0 | 1118.0 | N |
| 12/12/2014 | 13:00 | SC-3 S. Center Base | 2.0 | 514.0 | 79.0 | Y |
| 12/12/2014 | 14:30 | SC-4 S. Base | 6.5 | 9.4 | 15.0 | Y |
| 12/12/2014 | 14:37 | SC-5 NE Base (area 3) | 0-3.0 | 354.7 | N | Y |
| 12/12/2014 | 15:17 | SC-6 NW Wall (area 3) | 0-3.0 | 234.5 | N | Y |
| 12/12/2014 | 14:35 | SC-7 SE Wall (area 4) | 0-6.5 | 18.3 | N | Y |
| 12/12/2014 | 15:10 | SC-8 SW Wall (area 4) | 0-6.5 | 6.2 | N | Y |
| 12/23/2014 | 12:00 | E Wall | 0-6.5 | 631.0 | 112.0 | N |
| 12/23/2014 | 13:15 | W Wall | 0-6.5 | 728.0 | 728.0 | N |
| 12/23/2014 | 13:30 | S Wall | 0-6.5 | 873.0 | 873.0 | N |
| 12/30/2014 | 12:30 | S Wall | 0-6.5 | 3.0 | 30.0 | Y |
| 12/30/2014 | 13:00 | E Wall | 0-6.5 | 1.2 | N | Y |
| 12/30/2014 | 13:05 | W Wall | 0-6.5 | 3.0 | N | Y |
| 12/30/2014 | 13:10 | Base | 6.5 | 6.6 | N | Y |



Appendix A
Photographic Documentation

Site Photographs
Enterprise Products Chacon Jicarilla Apache D #102

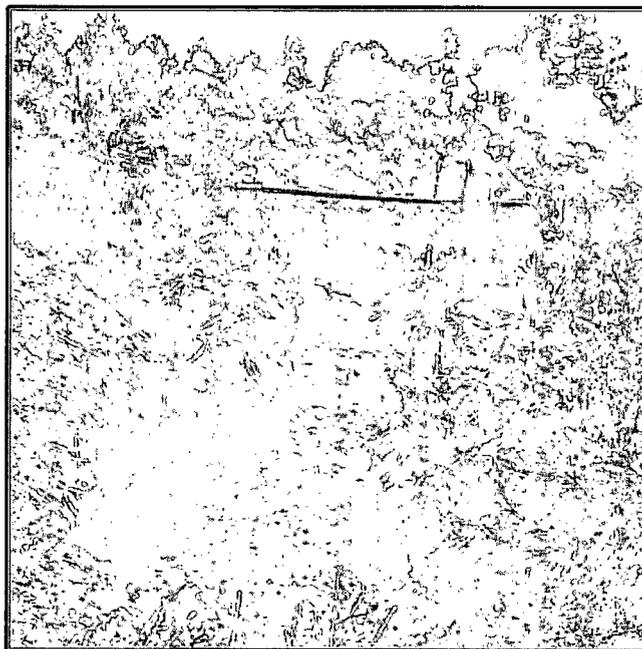


Photo 1: Manual excavation at the Chacon Jicarilla Apache D #102 pipeline release at a depth of approximately 1.5' bgs. Moderate hydrocarbon odor in base near south end (foreground) 12/3/2014.

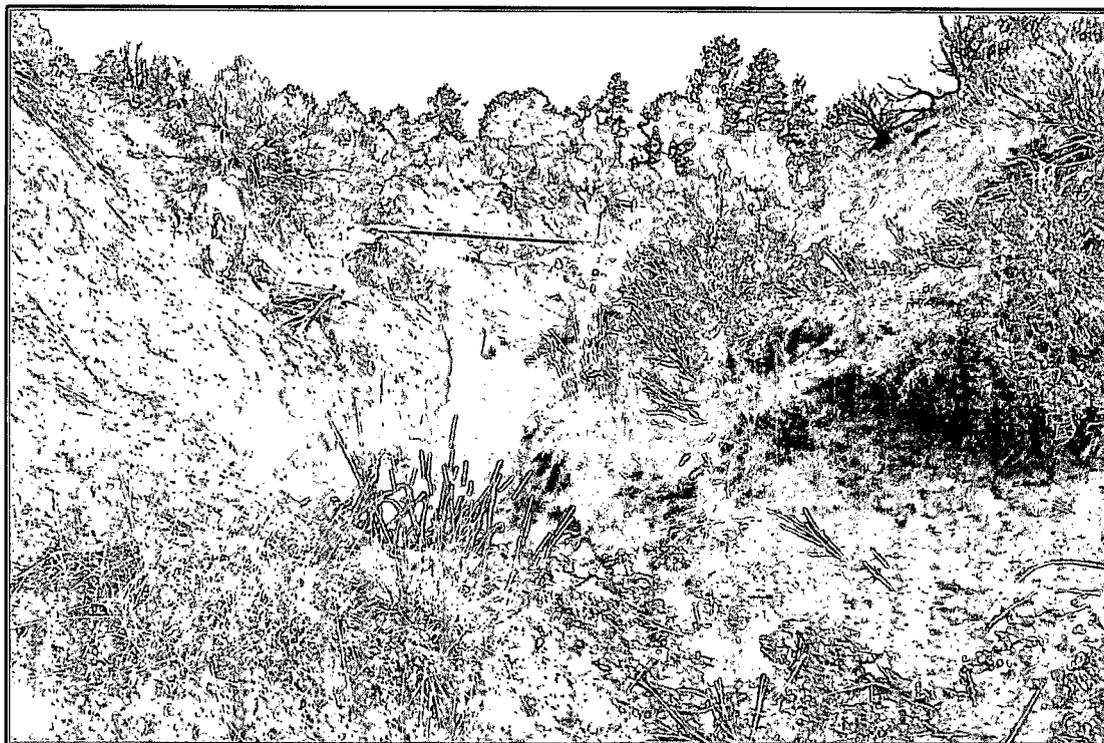


Photo 2: South end of excavation increased to ~2ft bgs , odor and PID screening above NMOCD standards.

Site Photographs
Enterprise Products Chacon Jicarilla Apache D #102



Photo 3: Skidsteer making access ramp for mini-excavator.

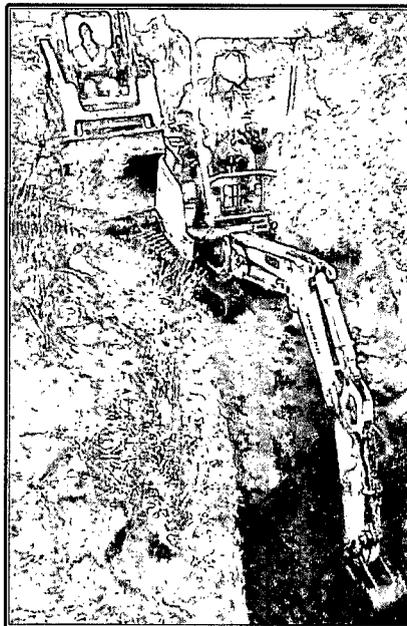


Photo 4: Mini-excavator loading contaminated soil by the bucket into the skidsteer bucket. Skidsteer then hauls each bucket to dump truck for removal.

Site Photographs
Enterprise Products Chacon Jicarilla Apache D #102



Photo 5: Rubber-tire backhoe excavating the southern portion of excavation on 12/30/2015.

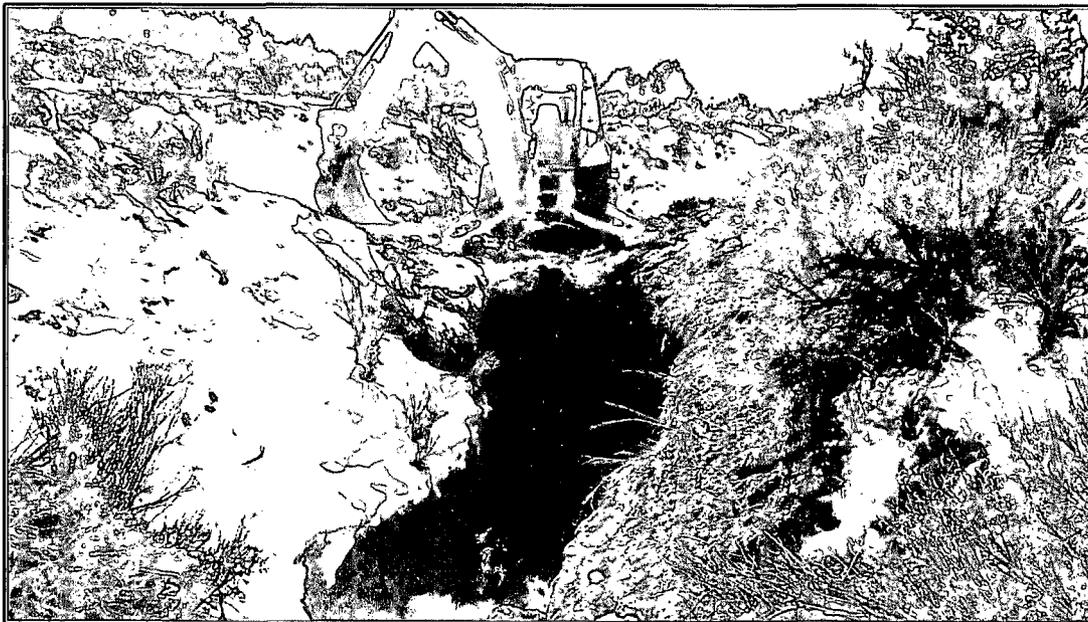


Photo 6: Completed excavation extent. 12/30/2014. Southern section dimension are now 8' wide, 6.5' below grade, and 14.5' in length.

Appendix B
Soil Disposal Documentation

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

97057-0676

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 Rellly Ave, Farmington NM 87401 | Dec 2014 |
| 2. Originating Site: Chacon Jicarilla Apache D#102 | |
| 3. Location of Material (Street Address, City, State or ULSTR): UL K Section 26, T23N, R3W; 36.19759, -107.13412 | |
| 4. Source and Description of Waste: Source: Water and Sludge from Steaming Cleaning Vessels. Description: Soil impacted with Natural Gas Liquids (Condensate and Water) Estimated Volume <u>20</u> (yd) bbls Known Volume (to be entered by the operator at the end of the haul) <u>42.5</u> (yd) bbls | |
| 5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, Thomas Long ^{Thomas Long} , representative or authorized agent for Enterprise Products Operating 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 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, Thomas Long ^{Thomas Long} 12-2-14, representative for Enterprise Products Operating authorizes Envirotech, Inc. to complete Generator Signature the required testing/sign the Generator Waste Testing Certification. I, ^{Kendra Runung} representative for <u>Envirotech, Inc.</u> 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. | |
| 5. Transporter: EBB <u>IME, HBL Services</u> | |

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:

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: Kendra Runung
SIGNATURE: Kendra Runung
Surface Waste Management Facility Authorized Agent

TITLE: waste coordinator
Land Farm Administrator

DATE: 12-2-14

TELEPHONE NO.: 505-632-0615

Appendix C
Laboratory Analytical Results



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

October 23, 2014

Steve Moskal
Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX

RE: Jic Chicon D # 102

OrderNo.: 1410932

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 9 sample(s) on 10/21/2014 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

Analytical Report

Lab Order 1410932

Date Reported: 10/23/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SB-4 @ 1'

Project: Jic Chicon D # 102

Collection Date: 10/17/2014 11:17:00 AM

Lab ID: 1410932-001

Matrix: SOIL

Received Date: 10/21/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 570 | 9.9 | | mg/Kg | 1 | 10/22/2014 10:06:43 AM | 16006 |
| Surr: DNOP | 124 | 63.5-128 | | %REC | 1 | 10/22/2014 10:06:43 AM | 16006 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 370 | 50 | | mg/Kg | 10 | 10/23/2014 1:31:51 AM | 16008 |
| Surr: BFB | 322 | 80-120 | S | %REC | 10 | 10/23/2014 1:31:51 AM | 16008 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 10/22/2014 2:34:48 PM | 16008 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 10/22/2014 2:34:48 PM | 16008 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 10/22/2014 2:34:48 PM | 16008 |
| Xylenes, Total | 2.2 | 0.10 | | mg/Kg | 1 | 10/22/2014 2:34:48 PM | 16008 |
| Surr: 4-Bromofluorobenzene | 409 | 80-120 | S | %REC | 1 | 10/22/2014 2:34:48 PM | 16008 |

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 | |
| | 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 | Page 1 of 12 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. | |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit | |
| | S Spike Recovery outside accepted recovery limits | | |

Analytical Report

Lab Order 1410932

Date Reported: 10/23/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SB-5 @ 1'

Project: Jic Chicon D # 102

Collection Date: 10/17/2014 11:27:00 AM

Lab ID: 1410932-002

Matrix: SOIL

Received Date: 10/21/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 750 | 10 | | mg/Kg | 1 | 10/22/2014 10:36:59 AM | 16006 |
| Surr: DNOP | 111 | 63.5-128 | | %REC | 1 | 10/22/2014 10:36:59 AM | 16006 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 2700 | 49 | | mg/Kg | 10 | 10/22/2014 1:08:54 PM | 16008 |
| Surr: BFB | 1220 | 80-120 | S | %REC | 10 | 10/22/2014 1:08:54 PM | 16008 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.25 | | mg/Kg | 10 | 10/22/2014 1:08:54 PM | 16008 |
| Toluene | ND | 0.49 | | mg/Kg | 10 | 10/22/2014 1:08:54 PM | 16008 |
| Ethylbenzene | ND | 0.49 | | mg/Kg | 10 | 10/22/2014 1:08:54 PM | 16008 |
| Xylenes, Total | 92 | 0.99 | | mg/Kg | 10 | 10/22/2014 1:08:54 PM | 16008 |
| Surr: 4-Bromofluorobenzene | 177 | 80-120 | S | %REC | 10 | 10/22/2014 1:08:54 PM | 16008 |

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 | |
| | 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 | Page 2 of 12 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. | |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit | |
| | S Spike Recovery outside accepted recovery limits | | |

Analytical Report

Lab Order 1410932

Date Reported: 10/23/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SB-5 @ 10'

Project: Jic Chicon D # 102

Collection Date: 10/17/2014 12:40:00 PM

Lab ID: 1410932-003

Matrix: SOIL

Received Date: 10/21/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 10/22/2014 3:45:02 PM | 16006 |
| Surr: DNOP | 91.9 | 63.5-128 | | %REC | 1 | 10/22/2014 3:45:02 PM | 16006 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 10/22/2014 4:29:06 PM | 16008 |
| Surr: BFB | 99.1 | 80-120 | | %REC | 1 | 10/22/2014 4:29:06 PM | 16008 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.048 | | mg/Kg | 1 | 10/22/2014 4:29:06 PM | 16008 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 10/22/2014 4:29:06 PM | 16008 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 10/22/2014 4:29:06 PM | 16008 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 10/22/2014 4:29:06 PM | 16008 |
| Surr: 4-Bromofluorobenzene | 90.0 | 80-120 | | %REC | 1 | 10/22/2014 4:29:06 PM | 16008 |

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 |
| | 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 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S Spike Recovery outside accepted recovery limits | |

Analytical Report

Lab Order 1410932

Date Reported: 10/23/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SB-1 @ 5'

Project: Jic Chicon D # 102

Collection Date: 10/17/2014 10:59:00 AM

Lab ID: 1410932-004

Matrix: SOIL

Received Date: 10/21/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 10/22/2014 4:16:18 PM | 16006 |
| Surr: DNOP | 101 | 63.5-128 | | %REC | 1 | 10/22/2014 4:16:18 PM | 16006 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 10/22/2014 4:57:48 PM | 16008 |
| Surr: BFB | 96.8 | 80-120 | | %REC | 1 | 10/22/2014 4:57:48 PM | 16008 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.048 | | mg/Kg | 1 | 10/22/2014 4:57:48 PM | 16008 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 10/22/2014 4:57:48 PM | 16008 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 10/22/2014 4:57:48 PM | 16008 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 10/22/2014 4:57:48 PM | 16008 |
| Surr: 4-Bromofluorobenzene | 92.4 | 80-120 | | %REC | 1 | 10/22/2014 4:57:48 PM | 16008 |

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 | |
| | 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 | Page 4 of 12 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. | |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit | |
| | S Spike Recovery outside accepted recovery limits | | |

Analytical Report

Lab Order 1410932

Date Reported: 10/23/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SB-2 @ 5'

Project: Jic Chicon D # 102

Collection Date: 10/17/2014 11:13:00 AM

Lab ID: 1410932-005

Matrix: SOIL

Received Date: 10/21/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 10/22/2014 4:47:34 PM | 16006 |
| Surr: DNOP | 101 | 63.5-128 | | %REC | 1 | 10/22/2014 4:47:34 PM | 16006 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 10/22/2014 5:26:28 PM | 16008 |
| Surr: BFB | 95.7 | 80-120 | | %REC | 1 | 10/22/2014 5:26:28 PM | 16008 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 10/22/2014 5:26:28 PM | 16008 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 10/22/2014 5:26:28 PM | 16008 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 10/22/2014 5:26:28 PM | 16008 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 10/22/2014 5:26:28 PM | 16008 |
| Surr: 4-Bromofluorobenzene | 94.1 | 80-120 | | %REC | 1 | 10/22/2014 5:26:28 PM | 16008 |

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 |
| | 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 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S Spike Recovery outside accepted recovery limits | |

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** SB-3 @ 2'**Project:** Jic Chicon D # 102**Collection Date:** 10/17/2014 11:09:00 AM**Lab ID:** 1410932-006**Matrix:** SOIL**Received Date:** 10/21/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 160 | 10 | | mg/Kg | 1 | 10/22/2014 5:18:54 PM | 16006 |
| Surr: DNOP | 109 | 63.5-128 | | %REC | 1 | 10/22/2014 5:18:54 PM | 16006 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 56 | 4.8 | | mg/Kg | 1 | 10/22/2014 10:11:55 PM | 16008 |
| Surr: BFB | 394 | 80-120 | S | %REC | 1 | 10/22/2014 10:11:55 PM | 16008 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.048 | | mg/Kg | 1 | 10/22/2014 10:11:55 PM | 16008 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 10/22/2014 10:11:55 PM | 16008 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 10/22/2014 10:11:55 PM | 16008 |
| Xylenes, Total | 0.27 | 0.097 | | mg/Kg | 1 | 10/22/2014 10:11:55 PM | 16008 |
| Surr: 4-Bromofluorobenzene | 110 | 80-120 | | %REC | 1 | 10/22/2014 10:11:55 PM | 16008 |

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 | |
| | 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 | Page 6 of 12 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. | |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit | |
| | S | Spike Recovery outside accepted recovery limits | | | |

Analytical Report

Lab Order 1410932

Date Reported: 10/23/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SB-6 @ 5'

Project: Jic Chicon D # 102

Collection Date: 10/17/2014 11:45:00 AM

Lab ID: 1410932-007

Matrix: SOIL

Received Date: 10/21/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 10/22/2014 5:50:11 PM | 16006 |
| Surr: DNOP | 97.0 | 63.5-128 | | %REC | 1 | 10/22/2014 5:50:11 PM | 16006 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 10/22/2014 10:40:29 PM | 16008 |
| Surr: BFB | 96.1 | 80-120 | | %REC | 1 | 10/22/2014 10:40:29 PM | 16008 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.049 | | mg/Kg | 1 | 10/22/2014 10:40:29 PM | 16008 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 10/22/2014 10:40:29 PM | 16008 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 10/22/2014 10:40:29 PM | 16008 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 10/22/2014 10:40:29 PM | 16008 |
| Surr: 4-Bromofluorobenzene | 93.5 | 80-120 | | %REC | 1 | 10/22/2014 10:40:29 PM | 16008 |

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 |
| | 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 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S Spike Recovery outside accepted recovery limits | |

Analytical Report

Lab Order 1410932

Date Reported: 10/23/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SB-7 @ 5'

Project: Jic Chicon D # 102

Collection Date: 10/17/2014 11:50:00 AM

Lab ID: 1410932-008

Matrix: SOIL

Received Date: 10/21/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 10/22/2014 6:21:32 PM | 16006 |
| Surr: DNOP | 99.5 | 63.5-128 | | %REC | 1 | 10/22/2014 6:21:32 PM | 16006 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 10/22/2014 11:08:59 PM | 16008 |
| Surr: BFB | 94.0 | 80-120 | | %REC | 1 | 10/22/2014 11:08:59 PM | 16008 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.048 | | mg/Kg | 1 | 10/22/2014 11:08:59 PM | 16008 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 10/22/2014 11:08:59 PM | 16008 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 10/22/2014 11:08:59 PM | 16008 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 10/22/2014 11:08:59 PM | 16008 |
| Surr: 4-Bromofluorobenzene | 94.3 | 80-120 | | %REC | 1 | 10/22/2014 11:08:59 PM | 16008 |

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 | |
| | 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 | Page 8 of 12 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. | |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit | |
| | S Spike Recovery outside accepted recovery limits | | |

Analytical Report

Lab Order 1410932

Date Reported: 10/23/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** SB-8 @ 2'**Project:** Jic Chicon D # 102**Collection Date:** 10/17/2014 12:02:00 PM**Lab ID:** 1410932-009**Matrix:** SOIL**Received Date:** 10/21/2014 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 10/22/2014 6:52:33 PM | 16006 |
| Surr: DNOP | 100 | 63.5-128 | | %REC | 1 | 10/22/2014 6:52:33 PM | 16006 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 10/22/2014 11:37:30 PM | 16008 |
| Surr: BFB | 92.9 | 80-120 | | %REC | 1 | 10/22/2014 11:37:30 PM | 16008 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.049 | | mg/Kg | 1 | 10/22/2014 11:37:30 PM | 16008 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 10/22/2014 11:37:30 PM | 16008 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 10/22/2014 11:37:30 PM | 16008 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 10/22/2014 11:37:30 PM | 16008 |
| Surr: 4-Bromofluorobenzene | 93.1 | 80-120 | | %REC | 1 | 10/22/2014 11:37:30 PM | 16008 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410932

23-Oct-14

Client: Souder, Miller and Associates

Project: Jic Chicon D # 102

| | | | | | | | | | | |
|-----------------------------|-------------------|----------------|-------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | MB-16006 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 16006 | RunNo: | 22037 | | | | | |
| Prep Date: | 10/21/2014 | Analysis Date: | 10/21/2014 | SeqNo: | 647997 | 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 | 63.5 | 128 | | | |

| | | | | | | | | | | |
|-----------------------------|-------------------|----------------|-------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | LCS-16006 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 16006 | RunNo: | 22037 | | | | | |
| Prep Date: | 10/21/2014 | Analysis Date: | 10/21/2014 | SeqNo: | 647999 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 42 | 10 | 50.00 | 0 | 83.7 | 68.6 | 130 | | | |
| Surr: DNOP | 4.2 | | 5.000 | | 84.9 | 63.5 | 128 | | | |

| | | | | | | | | | | |
|------------|-------------------|----------------|-------------------|-------------|--|----------|-------------|------|----------|------|
| Sample ID | MB-16000 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 16000 | RunNo: | 22037 | | | | | |
| Prep Date: | 10/20/2014 | Analysis Date: | 10/21/2014 | SeqNo: | 648092 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 8.3 | | 10.00 | | 83.4 | 63.5 | 128 | | | |

| | | | | | | | | | | |
|------------|-------------------|----------------|-------------------|-------------|--|----------|-------------|------|----------|------|
| Sample ID | LCS-16000 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 16000 | RunNo: | 22037 | | | | | |
| Prep Date: | 10/20/2014 | Analysis Date: | 10/21/2014 | SeqNo: | 648093 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 5.4 | | 5.000 | | 108 | 63.5 | 128 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410932

23-Oct-14

Client: Souder, Miller and Associates

Project: Jic Chicon D # 102

| | | | | | | | | | | |
|------------|--------------------|----------------|-------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | MB-16008 MK | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | R22067 | RunNo: | 22067 | | | | | |
| Prep Date: | | Analysis Date: | 10/22/2014 | SeqNo: | 649563 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 910 | | 1000 | | 90.7 | 80 | 120 | | | |

| | | | | | | | | | | |
|------------|---------------------|----------------|-------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | LCS-16008 MK | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | R22067 | RunNo: | 22067 | | | | | |
| Prep Date: | | Analysis Date: | 10/22/2014 | SeqNo: | 649564 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 1100 | | 1000 | | 115 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|-------------------|----------------|-------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | MB-16008 | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 16008 | RunNo: | 22067 | | | | | |
| Prep Date: | 10/21/2014 | Analysis Date: | 10/22/2014 | SeqNo: | 649565 | 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 | | 90.7 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|-------------------|----------------|-------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | LCS-16008 | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 16008 | RunNo: | 22067 | | | | | |
| Prep Date: | 10/21/2014 | Analysis Date: | 10/22/2014 | SeqNo: | 649566 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 30 | 5.0 | 25.00 | 0 | 121 | 65.8 | 139 | | | |
| Surr: BFB | 1100 | | 1000 | | 115 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410932

23-Oct-14

Client: Souder, Miller and Associates

Project: Jic Chicon D # 102

| | | | | | | | | | | |
|----------------------------|--------------------|----------------|-------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Sample ID | MB-16008 MK | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | PBS | Batch ID: | R22067 | RunNo: | 22067 | | | | | |
| Prep Date: | | Analysis Date: | 10/22/2014 | SeqNo: | 649639 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 0.94 | | 1.000 | | 94.5 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|---------------------|----------------|-------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Sample ID | LCS-16008 MK | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | LCSS | Batch ID: | R22067 | RunNo: | 22067 | | | | | |
| Prep Date: | | Analysis Date: | 10/22/2014 | SeqNo: | 649640 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 102 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|-------------------|----------------|-------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-16008 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | PBS | Batch ID: | 16008 | RunNo: | 22067 | | | | | |
| Prep Date: | 10/21/2014 | Analysis Date: | 10/22/2014 | SeqNo: | 649641 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.050 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.94 | | 1.000 | | 94.5 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|-------------------|----------------|-------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-16008 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | LCSS | Batch ID: | 16008 | RunNo: | 22067 | | | | | |
| Prep Date: | 10/21/2014 | Analysis Date: | 10/22/2014 | SeqNo: | 649642 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.99 | 0.050 | 1.000 | 0 | 99.1 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 99.9 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 102 | 80 | 120 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 101 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 102 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: SMA-FARM

Work Order Number: 1410932

RcptNo: 1

Received by/date: [Signature] 10/21/14

Logged By: Lindsay Mangin 10/21/2014 7:00:00 AM [Signature]

Completed By: Lindsay Mangin 10/21/2014 7:21:57 AM [Signature]

Reviewed By: AM 10/21/14

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: Jesse Sprague Date: _____
 By Whom: AM Via: eMail Phone Fax In Person
 Regarding: Sample ID is SB5C.10'
 Client Instructions: _____

17. Additional remarks: AM 10/21/14

18. Cooler Information

| Cooler No. | Temp. °C | Condition | Seal Intact | Seal No. | Seal Date | Signed By |
|------------|----------|-----------|-------------|----------|-----------|-----------|
| 1 | 1.7 | Good | Yes | | | |

Chain-of-Custody Record

Client: SMA

Mailing Address: 401 W Broadway
Farmington, NM 87401

Phone #: 505 325 7535

email or Fax#: stevan.moskal@soudsmills.com

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation
 NELAP Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush

Project Name:
Jic Chicon D# 102

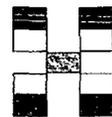
Project #:
5122855 BG55

Project Manager:
Steve Moskal

Sampler: Jesse Sprague

On Ice: Yes No

Sample Temperature: 1.7



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. | BTEX + MTBE + THMs (8021) | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO DRO / HRO) | TPH (Method 418.1) | EDB (Method 504.1) | PAH's (8310 or 8270 SIMS) | RCRA 8 Metals | Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | Air Bubbles (Y or N) | |
|----------|------|--------|--------------------------------|----------------------|-------------------|----------|---------------------------|------------------------------|---------------------------|--------------------|--------------------|---------------------------|---------------|--|------------------------------|-------------|-----------------|----------------------|--|
| 10/17/14 | 1117 | Soil | SB-4 @ 1' | 1 4oz | - | -001 | X | | X | | | | | | | | | | |
| | 1127 | | SB-5 @ 1' | | | -002 | X | | X | | | | | | | | | | |
| | 1240 | | SB-5 @ 10' ^{10/21/14} | | | -003 | X | | X | | | | | | | | | | |
| | 1059 | | SB-1 @ 5' | | | -004 | X | | X | | | | | | | | | | |
| | 1113 | | SB-2 @ 5' | | | -005 | X | | X | | | | | | | | | | |
| | 1109 | | SB-3 @ 2' | | | -006 | X | | X | | | | | | | | | | |
| | 1145 | | SB-6 @ 5' | | | -007 | X | | X | | | | | | | | | | |
| | 1150 | | SB-7 @ 5' | | | -008 | X | | X | | | | | | | | | | |
| | 2072 | | SB-8 @ 2' | | | -009 | X | | X | | | | | | | | | | |

Date: 10/20/14 Time: 1643 Relinquished by: [Signature] Received by: [Signature] Date: 10/20/14 Time: 1643 Remarks: Invoice Enterprise

Date: 10/20/14 Time: 1730 Relinquished by: [Signature] Received by: [Signature] Date: 10/21/14 Time: 0700 Remarks: Please copy Alicia.patterson@soudsmills.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

December 08, 2014

Steve Moskal
Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX

RE: Jic Chacon D 102

OrderNo.: 1412209

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/4/2014 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109



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

December 10, 2014

Steve Moskal
Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX

RE: Jicarilla Chacon D #102

OrderNo.: 1412386

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 3 sample(s) on 12/9/2014 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1412386

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** SC-2 N Center Base**Project:** Jicarilla Chacon D #102**Collection Date:** 12/8/2014 11:20:00 AM**Lab ID:** 1412386-002**Matrix:** MEOH (SOIL)**Received Date:** 12/9/2014 7:45:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 28 | 9.8 | | mg/Kg | 1 | 12/9/2014 10:40:45 AM | 16735 |
| Surr: DNOP | 84.4 | 63.5-128 | | %REC | 1 | 12/9/2014 10:40:45 AM | 16735 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 13 | 2.7 | | mg/Kg | 1 | 12/9/2014 11:46:46 AM | R23008 |
| Surr: BFB | 261 | 80-120 | S | %REC | 1 | 12/9/2014 11:46:46 AM | R23008 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.027 | | mg/Kg | 1 | 12/9/2014 11:46:46 AM | R23008 |
| Toluene | ND | 0.027 | | mg/Kg | 1 | 12/9/2014 11:46:46 AM | R23008 |
| Ethylbenzene | ND | 0.027 | | mg/Kg | 1 | 12/9/2014 11:46:46 AM | R23008 |
| Xylenes, Total | 0.070 | 0.054 | | mg/Kg | 1 | 12/9/2014 11:46:46 AM | R23008 |
| Surr: 4-Bromofluorobenzene | 110 | 80-120 | | %REC | 1 | 12/9/2014 11:46:46 AM | R23008 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |



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

December 16, 2014

Steve Moskal
Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX

RE: Jicarilla Chacon D #102

OrderNo.: 1412641

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 10 sample(s) on 12/13/2014 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

Analytical Report

Lab Order 1412641

Date Reported: 12/16/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** SC-3 @ 2'**Project:** Jicarilla Chacon D #102**Collection Date:** 12/12/2014 1:00:00 PM**Lab ID:** 1412641-001**Matrix:** SOIL**Received Date:** 12/13/2014 6:50:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 53 | 10 | | mg/Kg | 1 | 12/15/2014 9:43:47 AM | 16816 |
| Surr: DNOP | 87.3 | 63.5-128 | | %REC | 1 | 12/15/2014 9:43:47 AM | 16816 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 9.0 | 3.0 | | mg/Kg | 1 | 12/15/2014 10:32:16 AM | 16795 |
| Surr: BFB | 270 | 80-120 | S | %REC | 1 | 12/15/2014 10:32:16 AM | 16795 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.030 | | mg/Kg | 1 | 12/15/2014 10:32:16 AM | 16795 |
| Toluene | ND | 0.030 | | mg/Kg | 1 | 12/15/2014 10:32:16 AM | 16795 |
| Ethylbenzene | ND | 0.030 | | mg/Kg | 1 | 12/15/2014 10:32:16 AM | 16795 |
| Xylenes, Total | ND | 0.059 | | mg/Kg | 1 | 12/15/2014 10:32:16 AM | 16795 |
| Surr: 4-Bromofluorobenzene | 113 | 80-120 | | %REC | 1 | 12/15/2014 10:32:16 AM | 16795 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Analytical Report

Lab Order 1412641

Date Reported: 12/16/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-4 S Base #1

Project: Jicarilla Chacon D #102

Collection Date: 12/12/2014 2:30:00 PM

Lab ID: 1412641-002

Matrix: SOIL

Received Date: 12/13/2014 6:50:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|--------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 12/15/2014 10:13:50 AM | 16816 |
| Surr: DNOP | 83.0 | 63.5-128 | | %REC | 1 | 12/15/2014 10:13:50 AM | 16816 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 2.4 | | mg/Kg | 1 | 12/15/2014 11:01:00 AM | 16795 |
| Surr: BFB | 98.0 | 80-120 | | %REC | 1 | 12/15/2014 11:01:00 AM | 16795 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 12/15/2014 11:01:00 AM | 16795 |
| Toluene | ND | 0.024 | | mg/Kg | 1 | 12/15/2014 11:01:00 AM | 16795 |
| Ethylbenzene | ND | 0.024 | | mg/Kg | 1 | 12/15/2014 11:01:00 AM | 16795 |
| Xylenes, Total | ND | 0.049 | | mg/Kg | 1 | 12/15/2014 11:01:00 AM | 16795 |
| Surr: 4-Bromofluorobenzene | 103 | 80-120 | | %REC | 1 | 12/15/2014 11:01:00 AM | 16795 |

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 | |
| | 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 | Page 2 of 13 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. | |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit | |
| | S Spike Recovery outside accepted recovery limits | | |

Analytical Report

Lab Order 1412641

Date Reported: 12/16/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** SC-5 NE Wall**Project:** Jicarilla Chacon D #102**Collection Date:** 12/12/2014 2:37:00 PM**Lab ID:** 1412641-003**Matrix:** SOIL**Received Date:** 12/13/2014 6:50:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 12/15/2014 10:43:38 AM | 16816 |
| Surr: DNOP | 80.9 | 63.5-128 | | %REC | 1 | 12/15/2014 10:43:38 AM | 16816 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 32 | 2.7 | | mg/Kg | 1 | 12/15/2014 11:29:37 AM | 16795 |
| Surr: BFB | 364 | 80-120 | S | %REC | 1 | 12/15/2014 11:29:37 AM | 16795 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.027 | | mg/Kg | 1 | 12/15/2014 11:29:37 AM | 16795 |
| Toluene | ND | 0.027 | | mg/Kg | 1 | 12/15/2014 11:29:37 AM | 16795 |
| Ethylbenzene | ND | 0.027 | | mg/Kg | 1 | 12/15/2014 11:29:37 AM | 16795 |
| Xylenes, Total | 0.23 | 0.053 | | mg/Kg | 1 | 12/15/2014 11:29:37 AM | 16795 |
| Surr: 4-Bromofluorobenzene | 122 | 80-120 | S | %REC | 1 | 12/15/2014 11:29:37 AM | 16795 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** SC-6 NW Wall**Project:** Jicarilla Chacon D #102**Collection Date:** 12/12/2014 2:50:00 PM**Lab ID:** 1412641-004**Matrix:** SOIL**Received Date:** 12/13/2014 6:50:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 82 | 10 | | mg/Kg | 1 | 12/15/2014 11:13:47 AM | 16816 |
| Surr: DNOP | 84.1 | 63.5-128 | | %REC | 1 | 12/15/2014 11:13:47 AM | 16816 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 14 | 2.2 | | mg/Kg | 1 | 12/15/2014 11:58:14 AM | 16795 |
| Surr: BFB | 301 | 80-120 | S | %REC | 1 | 12/15/2014 11:58:14 AM | 16795 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.022 | | mg/Kg | 1 | 12/15/2014 11:58:14 AM | 16795 |
| Toluene | ND | 0.022 | | mg/Kg | 1 | 12/15/2014 11:58:14 AM | 16795 |
| Ethylbenzene | ND | 0.022 | | mg/Kg | 1 | 12/15/2014 11:58:14 AM | 16795 |
| Xylenes, Total | 0.11 | 0.044 | | mg/Kg | 1 | 12/15/2014 11:58:14 AM | 16795 |
| Surr: 4-Bromofluorobenzene | 117 | 80-120 | | %REC | 1 | 12/15/2014 11:58:14 AM | 16795 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** SC-7 Center East Wall**Project:** Jicarilla Chacon D #102**Collection Date:** 12/12/2014 2:35:00 PM**Lab ID:** 1412641-005**Matrix:** SOIL**Received Date:** 12/13/2014 6:50:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 12/15/2014 11:43:50 AM | 16816 |
| Surr: DNOP | 82.1 | 63.5-128 | | %REC | 1 | 12/15/2014 11:43:50 AM | 16816 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 2.9 | | mg/Kg | 1 | 12/15/2014 12:26:57 PM | 16795 |
| Surr: BFB | 107 | 80-120 | | %REC | 1 | 12/15/2014 12:26:57 PM | 16795 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.029 | | mg/Kg | 1 | 12/15/2014 12:26:57 PM | 16795 |
| Toluene | ND | 0.029 | | mg/Kg | 1 | 12/15/2014 12:26:57 PM | 16795 |
| Ethylbenzene | ND | 0.029 | | mg/Kg | 1 | 12/15/2014 12:26:57 PM | 16795 |
| Xylenes, Total | ND | 0.058 | | mg/Kg | 1 | 12/15/2014 12:26:57 PM | 16795 |
| Surr: 4-Bromofluorobenzene | 106 | 80-120 | | %REC | 1 | 12/15/2014 12:26:57 PM | 16795 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-8 Center West Wall

Project: Jicarilla Chacon D #102

Collection Date: 12/12/2014 3:10:00 PM

Lab ID: 1412641-006

Matrix: SOIL

Received Date: 12/13/2014 6:50:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 12/15/2014 9:52:33 AM | 16816 |
| Surr: DNOP | 74.1 | 63.5-128 | | %REC | 1 | 12/15/2014 9:52:33 AM | 16816 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 2.1 | | mg/Kg | 1 | 12/15/2014 12:55:42 PM | 16795 |
| Surr: BFB | 96.7 | 80-120 | | %REC | 1 | 12/15/2014 12:55:42 PM | 16795 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.021 | | mg/Kg | 1 | 12/15/2014 12:55:42 PM | 16795 |
| Toluene | ND | 0.021 | | mg/Kg | 1 | 12/15/2014 12:55:42 PM | 16795 |
| Ethylbenzene | ND | 0.021 | | mg/Kg | 1 | 12/15/2014 12:55:42 PM | 16795 |
| Xylenes, Total | ND | 0.042 | | mg/Kg | 1 | 12/15/2014 12:55:42 PM | 16795 |
| Surr: 4-Bromofluorobenzene | 103 | 80-120 | | %REC | 1 | 12/15/2014 12:55:42 PM | 16795 |

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 | |
| | 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 | Page 6 of 13 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. | |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit | |
| | S | Spike Recovery outside accepted recovery limits | | | |

Analytical Report

Lab Order 1412641

Date Reported: 12/16/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-9 South East Wall

Project: Jicarilla Chacon D #102

Collection Date: 12/12/2014 4:43:00 PM

Lab ID: 1412641-007

Matrix: SOIL

Received Date: 12/13/2014 6:50:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 88 | 9.9 | | mg/Kg | 1 | 12/15/2014 10:14:01 AM | 16816 |
| Surr: DNOP | 80.9 | 63.5-128 | | %REC | 1 | 12/15/2014 10:14:01 AM | 16816 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 740 | 29 | | mg/Kg | 10 | 12/15/2014 1:24:26 PM | 16795 |
| Surr: BFB | 483 | 80-120 | S | %REC | 10 | 12/15/2014 1:24:26 PM | 16795 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | 0.23 | 0.15 | | mg/Kg | 10 | 12/15/2014 1:24:26 PM | 16795 |
| Toluene | ND | 0.29 | | mg/Kg | 10 | 12/15/2014 1:24:26 PM | 16795 |
| Ethylbenzene | ND | 0.29 | | mg/Kg | 10 | 12/15/2014 1:24:26 PM | 16795 |
| Xylenes, Total | 11 | 0.58 | | mg/Kg | 10 | 12/15/2014 1:24:26 PM | 16795 |
| Surr: 4-Bromofluorobenzene | 126 | 80-120 | S | %REC | 10 | 12/15/2014 1:24:26 PM | 16795 |

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 |
| | 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 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S Spike Recovery outside accepted recovery limits | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-10 South West Wall

Project: Jicarilla Chacon D #102

Collection Date: 12/12/2014 4:46:00 PM

Lab ID: 1412641-008

Matrix: SOIL

Received Date: 12/13/2014 6:50:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 34 | 10 | | mg/Kg | 1 | 12/15/2014 10:35:24 AM | 16816 |
| Surr: DNOP | 73.3 | 63.5-128 | | %REC | 1 | 12/15/2014 10:35:24 AM | 16816 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 110 | 3.1 | | mg/Kg | 1 | 12/15/2014 1:53:04 PM | 16795 |
| Surr: BFB | 1600 | 80-120 | S | %REC | 1 | 12/15/2014 1:53:04 PM | 16795 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.031 | | mg/Kg | 1 | 12/15/2014 1:53:04 PM | 16795 |
| Toluene | ND | 0.031 | | mg/Kg | 1 | 12/15/2014 1:53:04 PM | 16795 |
| Ethylbenzene | ND | 0.031 | | mg/Kg | 1 | 12/15/2014 1:53:04 PM | 16795 |
| Xylenes, Total | 0.99 | 0.063 | | mg/Kg | 1 | 12/15/2014 1:53:04 PM | 16795 |
| Surr: 4-Bromofluorobenzene | 208 | 80-120 | S | %REC | 1 | 12/15/2014 1:53:04 PM | 16795 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Analytical Report

Lab Order 1412641

Date Reported: 12/16/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-11 S Base #2

Project: Jicarilla Chacon D #102

Collection Date: 12/12/2014 4:48:00 PM

Lab ID: 1412641-009

Matrix: SOIL

Received Date: 12/13/2014 6:50:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 12/15/2014 10:56:51 AM | 16816 |
| Surr: DNOP | 79.2 | 63.5-128 | | %REC | 1 | 12/15/2014 10:56:51 AM | 16816 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 3.6 | 2.8 | | mg/Kg | 1 | 12/15/2014 2:21:46 PM | 16795 |
| Surr: BFB | 126 | 80-120 | S | %REC | 1 | 12/15/2014 2:21:46 PM | 16795 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.028 | | mg/Kg | 1 | 12/15/2014 2:21:46 PM | 16795 |
| Toluene | ND | 0.028 | | mg/Kg | 1 | 12/15/2014 2:21:46 PM | 16795 |
| Ethylbenzene | ND | 0.028 | | mg/Kg | 1 | 12/15/2014 2:21:46 PM | 16795 |
| Xylenes, Total | 0.096 | 0.056 | | mg/Kg | 1 | 12/15/2014 2:21:46 PM | 16795 |
| Surr: 4-Bromofluorobenzene | 107 | 80-120 | | %REC | 1 | 12/15/2014 2:21:46 PM | 16795 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Analytical Report

Lab Order 1412641

Date Reported: 12/16/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-12 South Wall

Project: Jicarilla Chacon D #102

Collection Date: 12/12/2014 4:50:00 PM

Lab ID: 1412641-010

Matrix: SOIL

Received Date: 12/13/2014 6:50:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 130 | 9.9 | | mg/Kg | 1 | 12/15/2014 11:18:21 AM | 16816 |
| Surr: DNOP | 84.5 | 63.5-128 | | %REC | 1 | 12/15/2014 11:18:21 AM | 16816 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 150 | 2.9 | | mg/Kg | 1 | 12/15/2014 2:50:20 PM | 16795 |
| Surr: BFB | 1470 | 80-120 | S | %REC | 1 | 12/15/2014 2:50:20 PM | 16795 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | 0.035 | 0.029 | | mg/Kg | 1 | 12/15/2014 2:50:20 PM | 16795 |
| Toluene | ND | 0.029 | | mg/Kg | 1 | 12/15/2014 2:50:20 PM | 16795 |
| Ethylbenzene | ND | 0.029 | | mg/Kg | 1 | 12/15/2014 2:50:20 PM | 16795 |
| Xylenes, Total | 0.92 | 0.058 | | mg/Kg | 1 | 12/15/2014 2:50:20 PM | 16795 |
| Surr: 4-Bromofluorobenzene | 213 | 80-120 | S | %REC | 1 | 12/15/2014 2:50:20 PM | 16795 |

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 |
| | 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 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1412641
16-Dec-14

Client: Souder, Miller and Associates
Project: Jicarilla Chacon D #102

| Sample ID | MB-16816 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
|-----------------------------|-------------------|----------------|-------------------|-------------|--|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 16816 | RunNo: | 23131 | | | | | |
| Prep Date: | 12/15/2014 | Analysis Date: | 12/15/2014 | SeqNo: | 683125 | 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 | 7.6 | | 10.00 | | 75.8 | 63.5 | 128 | | | |

| Sample ID | LCS-16816 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
|-----------------------------|-------------------|----------------|-------------------|-------------|--|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 16816 | RunNo: | 23131 | | | | | |
| Prep Date: | 12/15/2014 | Analysis Date: | 12/15/2014 | SeqNo: | 683126 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 49 | 10 | 50.00 | 0 | 97.2 | 68.6 | 130 | | | |
| Surr: DNOP | 3.8 | | 5.000 | | 76.3 | 63.5 | 128 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1412641

16-Dec-14

Client: Souder, Miller and Associates

Project: Jicarilla Chacon D #102

| | | | | | | | | | | |
|-------------------------------|-------------------|----------------|-------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | MB-16795 | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 16795 | RunNo: | 23146 | | | | | |
| Prep Date: | 12/12/2014 | Analysis Date: | 12/15/2014 | SeqNo: | 683854 | 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 | 930 | | 1000 | | 92.6 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|-------------------|----------------|-------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | LCS-16795 | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 16795 | RunNo: | 23146 | | | | | |
| Prep Date: | 12/12/2014 | Analysis Date: | 12/15/2014 | SeqNo: | 683855 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21 | 5.0 | 25.00 | 0 | 85.6 | 65.8 | 139 | | | |
| Surr: BFB | 1100 | | 1000 | | 109 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1412641

16-Dec-14

Client: Souder, Miller and Associates

Project: Jicarilla Chacon D #102

| Sample ID | MB-16795 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-------------------|----------------|-------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 16795 | RunNo: | 23146 | | | | | |
| Prep Date: | 12/12/2014 | Analysis Date: | 12/15/2014 | SeqNo: | 683878 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.050 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 101 | 80 | 120 | | | |

| Sample ID | LCS-16795 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-------------------|----------------|-------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 16795 | RunNo: | 23146 | | | | | |
| Prep Date: | 12/12/2014 | Analysis Date: | 12/15/2014 | SeqNo: | 683879 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.90 | 0.050 | 1.000 | 0 | 90.1 | 80 | 120 | | | |
| Toluene | 0.92 | 0.050 | 1.000 | 0 | 91.6 | 80 | 120 | | | |
| Ethylbenzene | 0.94 | 0.050 | 1.000 | 0 | 93.8 | 80 | 120 | | | |
| Xylenes, Total | 2.8 | 0.10 | 3.000 | 0 | 92.5 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 112 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit



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: SMA-FARM

Work Order Number: 1412641

RcptNo: 1

Received by/date: AF 12/13/14

Logged By: **Anne Thorne** 12/13/2014 6:50:00 PM *Anne Thorne*

Completed By: **Anne Thorne** 12/15/2014 *Anne Thorne*

Reviewed By: *AT / [Signature]* 12/15/14

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: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> 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

Client: SMA

Mailing Address: 401 W Broadway
Farmington, NM 87401

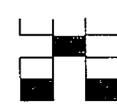
Phone #: 505 325 2535

email or Fax#: Steve.moskal@Sandriker.com

Project Name: Jicarilla Clincon D#102

Project #: 5122855

Project Manager: Steve Moskal



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation
 NELAP Other _____

EDD (Type) _____

Sampler: J. Sprague

On Ice: Yes No

Sample Temperature: 1.2°C

Analysis Request

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. | BTEX + MTBE (8021) | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO / DRO) (8021) | TPH (Method 418.1) | EDB (Method 504.1) | PAH's (8310 or 8270 SIMS) | RCRA 8 Metals | Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | Air Bubbles (Y or N) |
|------|------|--------|-----------------------|----------------------|-------------------|----------|--------------------|------------------------------|------------------------------|--------------------|--------------------|---------------------------|---------------|--|------------------------------|-------------|-----------------|----------------------|
| 1/12 | 1300 | Soil | SC-3 @ 2' | 1402 | MeqH | 1412/141 | X | X | X | | | | | | | | | |
| | 1430 | | SC-4 S. Base #1 | | | -001 | X | X | X | | | | | | | | | |
| | 1437 | | SC-5 NE well | | | -003 | X | X | X | | | | | | | | | |
| | 1450 | | SC-6 NW well | | | -004 | X | X | X | | | | | | | | | |
| | 1435 | | SC-7 Center East well | | | -005 | X | X | X | | | | | | | | | |
| | 1510 | | SC-8 Center West well | | | -006 | X | X | X | | | | | | | | | |
| | 1643 | | SC-9 South East well | | | -007 | X | X | X | | | | | | | | | |
| | 1646 | | SC-10 South West well | | | -008 | X | X | X | | | | | | | | | |
| | 1648 | | SC-11 S. Base #2 | | | -009 | X | X | X | | | | | | | | | |
| | 1650 | | SC-12 South well | | | -010 | X | X | X | | | | | | | | | |

Date: _____ Time: _____ Relinquished by: [Signature]

Date: _____ Time: _____ Relinquished by: _____

Received by: [Signature] Date: 12/13/14 Time: 6:50 PM

Received by: _____ Date: _____ Time: _____

Remarks: Invoice Enterprise,
pls copy
Jesse.Sprague@Sandriker.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.



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

January 02, 2015

Steve Moskal
Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX

RE: Chacon D 102

OrderNo.: 1412B90

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 4 sample(s) on 12/31/2014 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: S Wall

Project: Chacon D 102

Collection Date: 12/30/2014 12:30:00 PM

Lab ID: 1412B90-001

Matrix: SOIL

Received Date: 12/31/2014 7:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 12/31/2014 11:39:59 AM | 17041 |
| Surr: DNOP | 94.2 | 63.5-128 | | %REC | 1 | 12/31/2014 11:39:59 AM | 17041 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 2.4 | | mg/Kg | 1 | 12/31/2014 11:02:49 AM | R23436 |
| Surr: BFB | 88.4 | 80-120 | | %REC | 1 | 12/31/2014 11:02:49 AM | R23436 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 12/31/2014 11:02:49 AM | R23436 |
| Toluene | ND | 0.024 | | mg/Kg | 1 | 12/31/2014 11:02:49 AM | R23436 |
| Ethylbenzene | ND | 0.024 | | mg/Kg | 1 | 12/31/2014 11:02:49 AM | R23436 |
| Xylenes, Total | ND | 0.047 | | mg/Kg | 1 | 12/31/2014 11:02:49 AM | R23436 |
| Surr: 4-Bromofluorobenzene | 94.5 | 80-120 | | %REC | 1 | 12/31/2014 11:02:49 AM | R23436 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Chacon D 102
Lab ID: 1412B90-002

Client Sample ID: E Wall
Collection Date: 12/30/2014 1:00:00 PM
Received Date: 12/31/2014 7:30:00 AM

Matrix: SOIL

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 12/31/2014 12:09:46 PM | 17041 |
| Surr: DNOP | 89.0 | 63.5-128 | | %REC | 1 | 12/31/2014 12:09:46 PM | 17041 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 2.6 | | mg/Kg | 1 | 12/31/2014 11:31:27 AM | R23436 |
| Surr: BFB | 90.3 | 80-120 | | %REC | 1 | 12/31/2014 11:31:27 AM | R23436 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.026 | | mg/Kg | 1 | 12/31/2014 11:31:27 AM | R23436 |
| Toluene | ND | 0.026 | | mg/Kg | 1 | 12/31/2014 11:31:27 AM | R23436 |
| Ethylbenzene | ND | 0.026 | | mg/Kg | 1 | 12/31/2014 11:31:27 AM | R23436 |
| Xylenes, Total | ND | 0.051 | | mg/Kg | 1 | 12/31/2014 11:31:27 AM | R23436 |
| Surr: 4-Bromofluorobenzene | 93.9 | 80-120 | | %REC | 1 | 12/31/2014 11:31:27 AM | R23436 |

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 | |
| | 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 | Page 2 of 7 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. | |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit | |
| | S Spike Recovery outside accepted recovery limits | | |

Analytical ReportLab Order **1412B90**

Date Reported: 1/2/2015

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** W Wall**Project:** Chacon D 102**Collection Date:** 12/30/2014 1:05:00 PM**Lab ID:** 1412B90-003**Matrix:** SOIL**Received Date:** 12/31/2014 7:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 12/31/2014 11:38:37 AM | 17041 |
| Surr: DNOP | 94.1 | 63.5-128 | | %REC | 1 | 12/31/2014 11:38:37 AM | 17041 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 3.1 | | mg/Kg | 1 | 12/31/2014 12:00:00 PM | R23436 |
| Surr: BFB | 90.5 | 80-120 | | %REC | 1 | 12/31/2014 12:00:00 PM | R23436 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.031 | | mg/Kg | 1 | 12/31/2014 12:00:00 PM | R23436 |
| Toluene | ND | 0.031 | | mg/Kg | 1 | 12/31/2014 12:00:00 PM | R23436 |
| Ethylbenzene | ND | 0.031 | | mg/Kg | 1 | 12/31/2014 12:00:00 PM | R23436 |
| Xylenes, Total | ND | 0.061 | | mg/Kg | 1 | 12/31/2014 12:00:00 PM | R23436 |
| Surr: 4-Bromofluorobenzene | 95.0 | 80-120 | | %REC | 1 | 12/31/2014 12:00:00 PM | R23436 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Analytical Report

Lab Order 1412B90

Date Reported: 1/2/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: Base

Project: Chacon D 102

Collection Date: 12/30/2014 1:10:00 PM

Lab ID: 1412B90-004

Matrix: SOIL

Received Date: 12/31/2014 7:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 12/31/2014 11:59:57 AM | 17041 |
| Surr: DNOP | 92.5 | 63.5-128 | | %REC | 1 | 12/31/2014 11:59:57 AM | 17041 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 3.2 | | mg/Kg | 1 | 12/31/2014 12:28:48 PM | R23436 |
| Surr: BFB | 91.1 | 80-120 | | %REC | 1 | 12/31/2014 12:28:48 PM | R23436 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.032 | | mg/Kg | 1 | 12/31/2014 12:28:48 PM | R23436 |
| Toluene | ND | 0.032 | | mg/Kg | 1 | 12/31/2014 12:28:48 PM | R23436 |
| Ethylbenzene | ND | 0.032 | | mg/Kg | 1 | 12/31/2014 12:28:48 PM | R23436 |
| Xylenes, Total | ND | 0.063 | | mg/Kg | 1 | 12/31/2014 12:28:48 PM | R23436 |
| Surr: 4-Bromofluorobenzene | 95.4 | 80-120 | | %REC | 1 | 12/31/2014 12:28:48 PM | R23436 |

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 |
| | 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 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1412B90

02-Jan-15

Client: Souder, Miller and Associates

Project: Chacon D 102

| | | | | | | | | | | |
|-----------------------------|-------------------|----------------|-------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | MB-17041 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 17041 | RunNo: | 23412 | | | | | |
| Prep Date: | 12/31/2014 | Analysis Date: | 12/31/2014 | SeqNo: | 692482 | 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 | 8.0 | | 10.00 | | 79.9 | 63.5 | 128 | | | |

| | | | | | | | | | | |
|-----------------------------|-------------------|----------------|-------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | LCS-17041 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 17041 | RunNo: | 23412 | | | | | |
| Prep Date: | 12/31/2014 | Analysis Date: | 12/31/2014 | SeqNo: | 692503 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 42 | 10 | 50.00 | 0 | 83.2 | 67.8 | 130 | | | |
| Surr: DNOP | 4.1 | | 5.000 | | 81.8 | 63.5 | 128 | | | |

| | | | | | | | | | | |
|-----------------------------|-----------------------|----------------|-------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | 1412B90-001AMS | SampType: | MS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | S Wall | Batch ID: | 17041 | RunNo: | 23412 | | | | | |
| Prep Date: | 12/31/2014 | Analysis Date: | 12/31/2014 | SeqNo: | 692553 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 47 | 10 | 49.75 | 0 | 94.7 | 29.2 | 176 | | | |
| Surr: DNOP | 4.8 | | 4.975 | | 97.5 | 63.5 | 128 | | | |

| | | | | | | | | | | |
|-----------------------------|------------------------|----------------|-------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | 1412B90-001AMSD | SampType: | MSD | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | S Wall | Batch ID: | 17041 | RunNo: | 23412 | | | | | |
| Prep Date: | 12/31/2014 | Analysis Date: | 12/31/2014 | SeqNo: | 692554 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 49 | 9.9 | 49.46 | 0 | 98.3 | 29.2 | 176 | 3.17 | 23 | |
| Surr: DNOP | 4.9 | | 4.946 | | 98.1 | 63.5 | 128 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1412B90
02-Jan-15

Client: Souder, Miller and Associates
Project: Chacon D 102

| | | | | | | | | | | |
|-------------------------------|---------------|----------------|-------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | 5ML RB | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | R23436 | RunNo: | 23436 | | | | | |
| Prep Date: | | Analysis Date: | 12/31/2014 | SeqNo: | 692699 | 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 | 870 | | 1000 | | 86.8 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|----------------------|----------------|-------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | 2.5UG GRO LCS | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | R23436 | RunNo: | 23436 | | | | | |
| Prep Date: | | Analysis Date: | 12/31/2014 | SeqNo: | 692700 | 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 | 95.7 | 65.8 | 139 | | | |
| Surr: BFB | 970 | | 1000 | | 97.3 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|-----------------------|----------------|-------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | 1412B90-001AMS | SampType: | MS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | S Wall | Batch ID: | R23436 | RunNo: | 23436 | | | | | |
| Prep Date: | | Analysis Date: | 12/31/2014 | SeqNo: | 692703 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 11 | 2.4 | 11.79 | 0 | 97.4 | 47.9 | 144 | | | |
| Surr: BFB | 460 | | 471.5 | | 97.7 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|------------------------|----------------|-------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | 1412B90-001AMSD | SampType: | MSD | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | S Wall | Batch ID: | R23436 | RunNo: | 23436 | | | | | |
| Prep Date: | | Analysis Date: | 12/31/2014 | SeqNo: | 692704 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 11 | 2.4 | 11.79 | 0 | 94.1 | 47.9 | 144 | 3.47 | 29.9 | |
| Surr: BFB | 460 | | 471.5 | | 97.9 | 80 | 120 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1412B90

02-Jan-15

Client: Souder, Miller and Associates

Project: Chacon D 102

| | | | | | | | | | | |
|----------------------------|---------------|----------------|-------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | 5ML RB | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | PBS | Batch ID: | R23436 | RunNo: | 23436 | | | | | |
| Prep Date: | | Analysis Date: | 12/31/2014 | SeqNo: | 692710 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.050 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.90 | | 1.000 | | 90.0 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|-----------------------|----------------|-------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | 100NG BTEX LCS | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | LCSS | Batch ID: | R23436 | RunNo: | 23436 | | | | | |
| Prep Date: | | Analysis Date: | 12/31/2014 | SeqNo: | 692711 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.050 | 1.000 | 0 | 101 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 101 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 102 | 80 | 120 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 99.8 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 99.0 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|-----------------------|----------------|-------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | 1412B90-002AMS | SampType: | MS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | E Wall | Batch ID: | R23436 | RunNo: | 23436 | | | | | |
| Prep Date: | | Analysis Date: | 12/31/2014 | SeqNo: | 692714 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.53 | 0.026 | 0.5139 | 0 | 104 | 69.2 | 126 | | | |
| Toluene | 0.52 | 0.026 | 0.5139 | 0.009353 | 100 | 65.6 | 128 | | | |
| Ethylbenzene | 0.54 | 0.026 | 0.5139 | 0 | 104 | 65.5 | 138 | | | |
| Xylenes, Total | 1.6 | 0.051 | 1.542 | 0.01653 | 101 | 63 | 139 | | | |
| Surr: 4-Bromofluorobenzene | 0.52 | | 0.5139 | | 101 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|------------------------|----------------|-------------------|-------------|------------------------------------|----------|--------------|-------|----------|------|
| Sample ID | 1412B90-002AMSD | SampType: | MSD | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | E Wall | Batch ID: | R23436 | RunNo: | 23436 | | | | | |
| Prep Date: | | Analysis Date: | 12/31/2014 | SeqNo: | 692715 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.54 | 0.026 | 0.5139 | 0 | 105 | 69.2 | 126 | 1.44 | 18.5 | |
| Toluene | 0.53 | 0.026 | 0.5139 | 0.009353 | 101 | 65.6 | 128 | 1.03 | 20.6 | |
| Ethylbenzene | 0.54 | 0.026 | 0.5139 | 0 | 106 | 65.5 | 138 | 1.42 | 20.1 | |
| Xylenes, Total | 1.6 | 0.051 | 1.542 | 0.01653 | 101 | 63 | 139 | 0.315 | 21.1 | |
| Surr: 4-Bromofluorobenzene | 0.51 | | 0.5139 | | 99.4 | 80 | 120 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit



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: SMA-FARM

Work Order Number: 1412B90

RcptNo: 1

Received by/date: _____

Logged By: Anne Thorne 12/31/2014 7:30:00 AM *Anne Thorne*

Completed By: Anne Thorne 12/31/2014 *Anne Thorne*

Reviewed By: *[Signature]* 12/31/14

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: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> 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

Client: SMA

Turn-Around Time:
 Standard Rush Same Day

Mailing Address: 401 W Broadway

Project Name: Chacon D 102

Farmington, NM 87401

Project #: 5122855

Phone #: 505 325 7535

email or Fax#: Steve.Moskal@SandsMiller.com

Project Manager: Steve Moskal

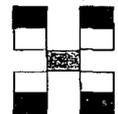
QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation
 NELAP Other _____

Sampler: J. Sprague

EDD (Type)

On Ice: Yes No
 Sample Temperature: 1.3



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No | BTEX | MTBE + TPB's (8021) | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO/DRO/ MRO) | TPH (Method 418.1) | EDB (Method 504.1) | PAH's (8310 or 8270 SIMS) | RCRA 8 Metals | Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | Air Bubbles (Y or N) |
|-------|------|--------|-------------------|----------------------|-------------------|---------|------|---------------------|------------------------------|--------------------------|--------------------|--------------------|---------------------------|---------------|--|------------------------------|-------------|-----------------|----------------------|
| 12/30 | 1230 | Soil | S well | 1 4oz MeOH kit | - MeOH | 1412390 | X | | X | | | | | | | | | | |
| | 1300 | | E well | 1 4oz MeOH kit | - MeOH | 1412390 | X | | X | | | | | | | | | | |
| | 1305 | | W well | 1 4oz MeOH kit | - MeOH | 1412390 | X | | X | | | | | | | | | | |
| | 1310 | ✓ | Base | 1 4oz MeOH kit | - MeOH | 1412390 | X | | X | | | | | | | | | | |

Date: 12/30/14 Time: 1717 Relinquished by: [Signature]

Received by: [Signature] Date: 12/30/14 Time: 1717

Remarks: Invoice Enterprise

Date: 12/30/14 Time: 1740 Relinquished by: [Signature]

Received by: [Signature] Date: 12/31/14 Time: 0730

Pls copy Alicia.pattusa@SandsMiller.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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 Form C-141
Revised August 8, 2011
MAR 30 2015
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 K-36; San Juan 28-7 Unit #3 | Facility Type: Natural Gas Gathering Line Valve |

| | | |
|--------------------|--------------------|---------|
| Surface Owner: BLM | Mineral Owner: BLM | API No. |
|--------------------|--------------------|---------|

LOCATION OF RELEASE

| | | | | | | | | |
|------------------|--------------|-----------------|-------------|--------------------------|--------------------------------|--------------------------|------------------------------|----------------------|
| Unit Letter N | Section 6 | Township 27N | Range 7W | Feet from the 1255 | North South Line | Feet from the 1367 | East West Line | County Rio Arriba |
|------------------|--------------|-----------------|-------------|--------------------------|--------------------------------|--------------------------|------------------------------|----------------------|

Latitude 36.599037 Longitude -107.619455

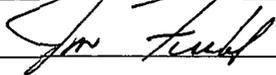
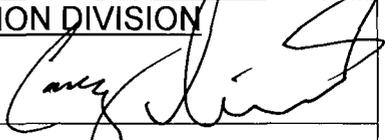
NATURE OF RELEASE

| | | |
|--|--|--|
| Type of Release: Natural Gas Liquids | Volume of Release 3-5 BBLs Fluids | Volume Recovered: NONE |
| Source of Release: Leaking Valve on meter stem | Date and Hour of Occurrence: 12/15/2014 @ 4:40 p.m. | Date and Hour of Discovery: 12/15/2014 @ 5:40 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 Cory Smith - NMOCD; Shari Ketcham - BLM | |
| By Whom? Thomas Long | Date and Hour: 12/31/2015 @ 10:11 a.m. | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse | |

If a Watercourse was Impacted, Describe Fully.*
Describe Cause of Problem and Remedial Action: On December 16, 2014, a third party reported a valve leaf on the Lateral K-36/San Juan 28-7 Unit #3 well tie. The pipeline was isolated, de-pressurized and lock out tag out was implemented. The release was associated with a faulty four inch valve on a meter stem. Remediation was completed on January 26, 2015.

Describe Area Affected and Cleanup Action: Impacted soils were excavated. The final excavation dimensions measured approximately thirty (30) feet long by ranging from thirteen (13) to sixteen (16) feet wide ranging from three (3) to seven (7) feet deep. Approximately 120 cubic yards of hydrocarbon impacted soil was excavated and transported to a NMOCD approved land farm facility. A third party environmental contractor 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 Fields | Approved by Environmental Specialist:  | |
| Title: Director, Environmental | Approval Date: 4/30/15 | Expiration Date: |
| E-mail Address: jefields@eprod.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 3-24-2015 | Phone: (713)381-6684 | |

* Attach Additional Sheets If Necessary

#NCS 1503738901

38

**Lateral K-36/San Juan 28-7 Unit #3 P/A
Release Report
Section 6, Township 27N, Range 7W
N36.59906, W107.61945
Rio Arriba County, New Mexico
February 23, 2015**

Prepared for:

Enterprise Products Operating, LLC
614 Reilly Avenue
Farmington, New Mexico 87401

Prepared by:

Rule Engineering, LLC
501 Airport Drive, Suite 205
Farmington, New Mexico 87401

**Enterprise Products Operating, LLC
Lateral K-36/San Juan 28-7 Unit #3 P/A
Release Report**

Prepared for:

Enterprise Products Operating, LLC
614 Reilly Avenue
Farmington, New Mexico 87401

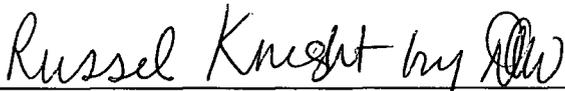
Prepared by:

Rule Engineering, LLC
501 Airport Drive, Suite 205
Farmington, New Mexico 87401



Deborah Watson, PG, Geologist

Reviewed by:



Russell Knight, PG, Principal Hydrogeologist

February 23, 2015

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Figure 2 Aerial Site Map
Figure 3 Soil Analytical Map

Appendices

Appendix A Executed C-138 Solid Waste Acceptance Form
Appendix B Photograph Log
Appendix C Analytical Laboratory Reports

1 Introduction

The Enterprise Products Operating, LLC (Enterprise) Lateral K-36/San Juan 28-7 Unit #3 P/A release site is located in Unit Letter N, Section 6, Township 27N, Range 7W in rural Rio Arriba County, New Mexico. The Lateral K-36 release occurred at an abandoned meter stem associated with the plugged and abandoned San Juan 28-7 Unit #3 well. The release was reported on December 15, 2014, by a third party working in the area.

On December 15, 2014, Enterprise personnel repaired the leak and tightened the valve at the abandoned meter stem. The release consisted of three to five barrels (bbl) of condensate mix based on impacted surface soil extent. Remedial activities which included excavation of the hydrocarbon impacted soils began on January 7, 2015, at which time a historic release was encountered at the site. Remedial work was concluded on January 26, 2015.

A topographic map of the location is included as Figure 1, and an aerial site map is included as Figure 2.

2 Release Summary

Site Name – Lateral K-36/San Juan 28-7 Unit #3 P/A

Location – Unit Letter N (SE/SW), Section 6, Township 27N, Range 7W

Release Latitude/Longitude – N36.59906 and W107.61945, respectively

Land Jurisdiction – Bureau of Land Management (BLM)

Date Release Discovered – December 15, 2014

Agency Notification – BLM and New Mexico Oil Conservation Division (NMOCD)

Agency Jurisdiction – BLM

Diameter of Pipeline – 4-inch

Source of Release – Valve leak on the San Juan 28-7 Unit #3 P/A abandoned meter stem, old meter #70-480-01

Release Contents – condensate mix

Release Volume – 3 to 5 bbl

NMOCD Ranking – 10

Date of Rule Engineering, LLC (Rule) Field Work – December 16, 2014, and January 7, 9, and 23, 2015

Subcontractor – West States Energy Contractors, Inc. (West States)

Disposal Facility – Envirotech Land Farm (Permit #NM-01-011)

Amount of Contaminated Soil Excavated/Disposed – 120 cubic yards

3 NMOCD Ranking

In accordance with NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993), this site was assigned a ranking score of 10 documented in Table 1. Based on the ranking score of 10, action levels for remediated soils at the site are as follows: 10 mg/kg benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 1,000 mg/kg total petroleum hydrocarbons (TPH).

Depth to groundwater at the site was estimated to be greater than 100 feet below ground surface (bgs), based on the elevation differential (547 feet) between the release location and the wash in Stove Canyon.

A review was completed of the New Mexico Office of the State Engineer online New Mexico Water Rights Reporting System and no water wells were identified within a 1,000 feet radius of the location.

The nearest surface water, an unnamed wash which ultimately drains to the wash located in Stove Canyon is located approximately 570 feet southeast of the release location.

4 Field Activities

Enterprise, West States, and Rule personnel were onsite for the initiation of remediation activities on January 7, 2015. West States provided heavy equipment operation and excavated the petroleum impacted materials from within the release area. Rule personnel provided excavation oversight and conducted field screening during remediation activities. On January 7, 2015, based on visual observation and field screening results, the excavation was halted, and BLM and NMOCD were extended an invitation to the confirmation sampling event scheduled for January 9, 2015.

On January 9, 2015, Enterprise and Rule personnel collected five confirmation samples (SC-1 through SC-5) from each of the sidewalls and base of the excavation. BLM and NMOCD were not in attendance during confirmation sampling.

Excavation continued along the northeast sidewall on January 23, 2015, following receipt of analytical results which reported TPH and total BTEX above NMOCD action levels in soil sample SC-1. A final composite sample was collected on January 23, 2015, from the northeast sidewall and submitted for laboratory analysis. Approximately 120 cubic yards of hydrocarbon impacted soils and sandstone were removed from an area of excavation measuring approximately 30.5 feet x 13 (to 16) feet x 3 (to 7) feet in depth. The base of the excavation was terminated by a competent sandstone layer. Figure 3 provides the locations and results of the soil samples collected.

A copy of the executed C-138 Solid Waste Acceptance Form is included in Appendix A. A photograph log is included in Appendix B.

5 Soil Sampling

Rule collected six soil composite samples from the sidewall and base of the excavation. Confirmation samples SC-1 through SC-5 were collected on January 9, 2015, and confirmation sample SC-6 was collected on January 23, 2015, following additional excavation along the northeast sidewall.

All soil samples were field screened for volatile organic compounds (VOCs). Field screening for VOC vapors was conducted with a photo-ionization detector (PID). Before

beginning field screening, the PID was calibrated with 100 parts per million (ppm) isobutylene gas. Field screening results are summarized in Table 2.

Soil samples collected for laboratory analysis were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. All samples were analyzed for BTEX per U.S. Environmental Protection Agency (USEPA) Method 8021B and TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D. Laboratory analytical results are summarized in Table 2, and the analytical laboratory reports are included in Appendix C.

6 Conclusions

The release of three to five bbl of condensate mix occurred from a valve on the San Juan 28-7 Unit #3 P/A abandoned meter stem along the Lateral K-36 pipeline. During remedial activities, historic contamination was encountered at the site. Five confirmation samples were collected from the sidewalls and base of the excavation on January 9, 2015, for laboratory analysis of total BTEX and TPH. Analytical results for the northeast sidewall (SC-1) exceeded NMOCD action levels for total BTEX and TPH. Excavation continued along the northeast sidewall on January 23, 2015, followed by the collection of confirmation sample SC-6 on the same day. The final excavation measured approximately 30.5 feet x 13 (to 16) feet x 3 (to 7) feet in depth.

Laboratory analytical results for final confirmation samples (SC-2 through SC-6) reported benzene and total BTEX concentrations below the NMOCD action levels of 10 mg/kg and 50 mg/kg, respectively. All final confirmation samples reported TPH concentrations below the NMOCD action level of 1,000 mg/kg. Action levels are based on a NMOCD site ranking of 10.

On January 26, 2015, Enterprise received approval to backfill the excavation from Shari Ketcham of BLM. The excavation was backfilled with clean imported fill and contoured to the surrounding grade.

Based on laboratory analytical results, no further work is recommended.

7 Closure and Limitations

This report has been prepared for the exclusive use of Enterprise and is subject to the terms, conditions and limitations stated in Rule's proposal, the report, and Rule's Service Agreement with Enterprise. All work has been performed in accordance with generally accepted professional environmental consulting practices. No other warranty is expressed or implied.

Tables

Table 1. NMOCD Site Ranking Determination
Lateral K-36/San Juan 28-7 Unit #3 P/A
Rio Arriba County, New Mexico
Enterprise Products

| Ranking Criteria | Ranking Score | Site-Based Ranking Score | Basis for Determination | Data Sources |
|--|---------------|--------------------------|--|--|
| Depth to Groundwater | | | | |
| <50 feet | 20 | 0 | Elevation differential (547 feet) between the location and the wash in Stove Canyon. | NMOCD Online database NMOSE NMWRRS Google Earth, and Visual Inspection |
| 50-99 feet | 10 | | | |
| >100 feet | 0 | | | |
| Wellhead Protection Area | | | | |
| <1,000 feet from a water source, or <200 feet from private domestic water source | 20 (Yes) | 0 | No water source or recorded water wells w/in 1,000 ft. | NMOSE NMWRRS Gould Pass Quadrangle Visual Inspection |
| | 0 (No) | | | |
| Distance to Surface Water Body | | | | |
| <200 horizontal feet | 20 | 10 | Unnamed wash which drains to wash in Stove Canyon is located approximately 570 feet southeast of the site. | Gould Pass Quadrangle Visual Inspection Google Earth |
| 200 to 1,000 horizontal feet | 10 | | | |
| >1,000 horizontal feet | 0 | | | |
| Site Based Total Ranking Score | | 10 | | |

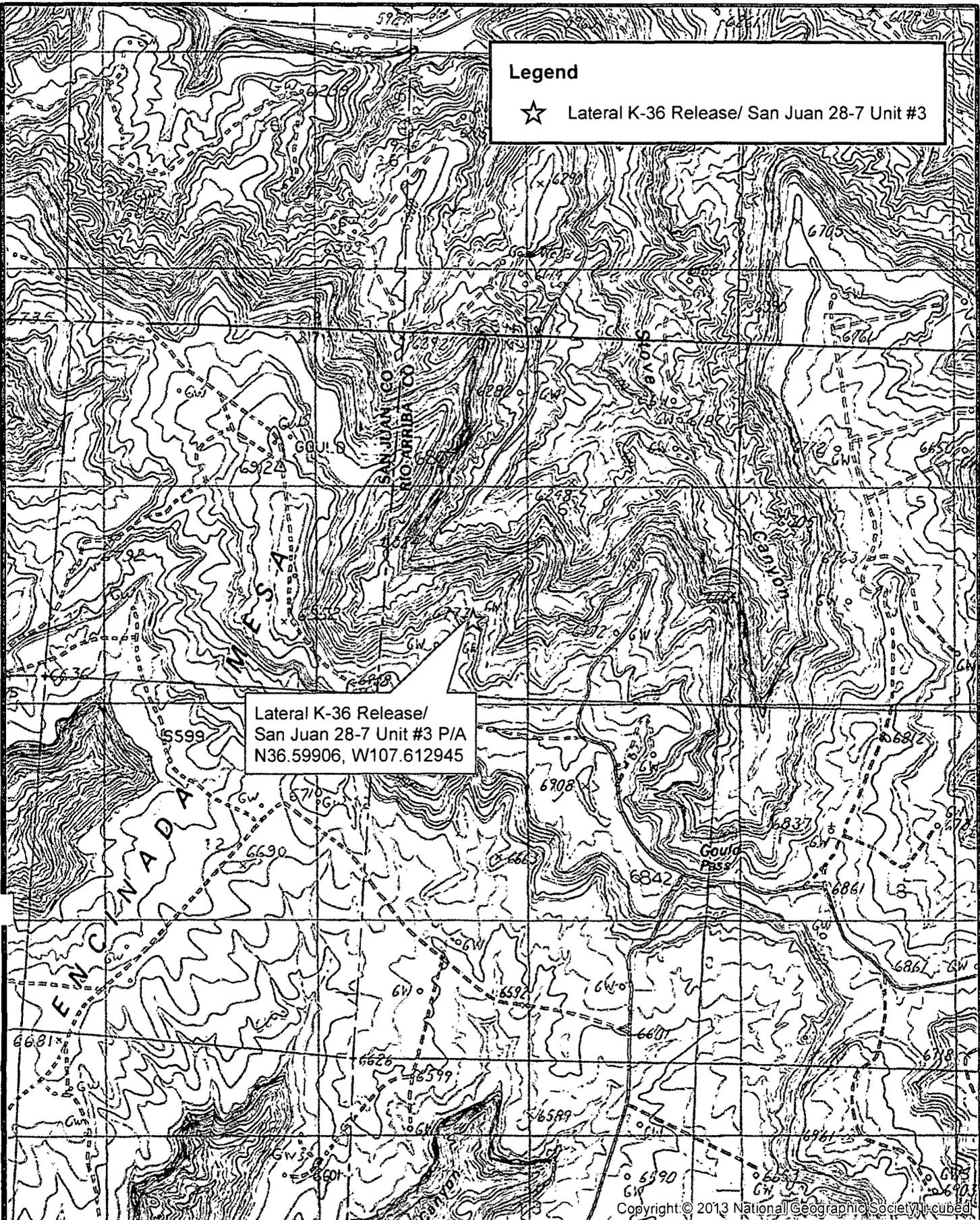
**Table 2. Soil Sampling Results-VOCs, Benzene, Total BTEX, and TPH
Lateral K-36/San Juan 28-7 Unit #3 P/A
Rio Arriba County, New Mexico
Enterprise Products**

| Sample ID | Date | Location | Sample Depth (ft bgs) | VOCs (PID) (ppm) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH-GRO | TPH-DRO |
|-----------------------------|------------|----------------|--------------------------|---------------------|--------------------|-----------------------|--------------|------------|
| | | | | | | | (mg/kg) | |
| NMOCD Action Levels* | | | | 100 | 10 | 50 | 1,000 | |
| SC-1 | Jan 09, 15 | Northeast Wall | 0 to 7 | 1,129 | 0.60 | 87 | 1,000 | 180 |
| SC-2 | Jan 09, 15 | Southwest Wall | 0 to 7 | 287 | <0.030 | 0.32 | 9.0 | 20 |
| SC-3 | Jan 09, 15 | Southeast Wall | 0 to 7 | 315 | <0.031 | <0.155 | <3.1 | <9.9 |
| SC-4 | Jan 09, 15 | Northwest Wall | 0 to 7 | 676 | 0.041 | 3.6 | 71 | 170 |
| SC-5 | Jan 09, 15 | Base | 3 to 7 | 1,310 | 0.50 | 16 | 220 | 28 |
| SC-6 | Jan 23, 15 | Northeast Wall | 0 to 5 | 270 | <0.033 | 0.57 | 11 | 33 |

- Notes: ft bgs - feet below ground surface
 VOCs - volatile organic compounds
 PID - photo-ionization detector
 ppm - parts per million
 BTEX - benzene, toluene, ethylbenzene, and xylenes
 TPH-GRO - total petroleum hydrocarbons-gasoline range organics
 TPH-DRO - total petroleum hydrocarbons-diesel range organics
 mg/kg - milligrams/kilograms
 *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (1993)

Figures

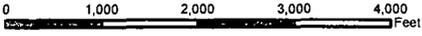
Legend
 ☆ Lateral K-36 Release/ San Juan 28-7 Unit #3



Lateral K-36 Release/
 San Juan 28-7 Unit #3 P/A
 N36.59906, W107.612945

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Rule Engineering, LLC
 Solutions to Regulations for Industry



Location
 N(SE/SW)-6-27N-R7W
 N36.59906, W107.61945
 Rio Arriba County, New Mexico

Topographic Map
 Enterprise Products
 Lateral K-36
 San Juan 28-7 Unit #3 P/A

Date: 2/16/2015 File: 150129 Topo Map.pdf

Figure: 1

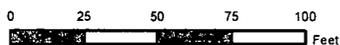
Legend

- ☆ San Juan 28-7 Unit #3 Monument
- Release Location



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

Rule Engineering, LLC
Solutions to Regulations for Industry



Location

N(SE/SW)-6-27N-R7W
N36.59906, W107.61945
Rio Arriba County, New Mexico

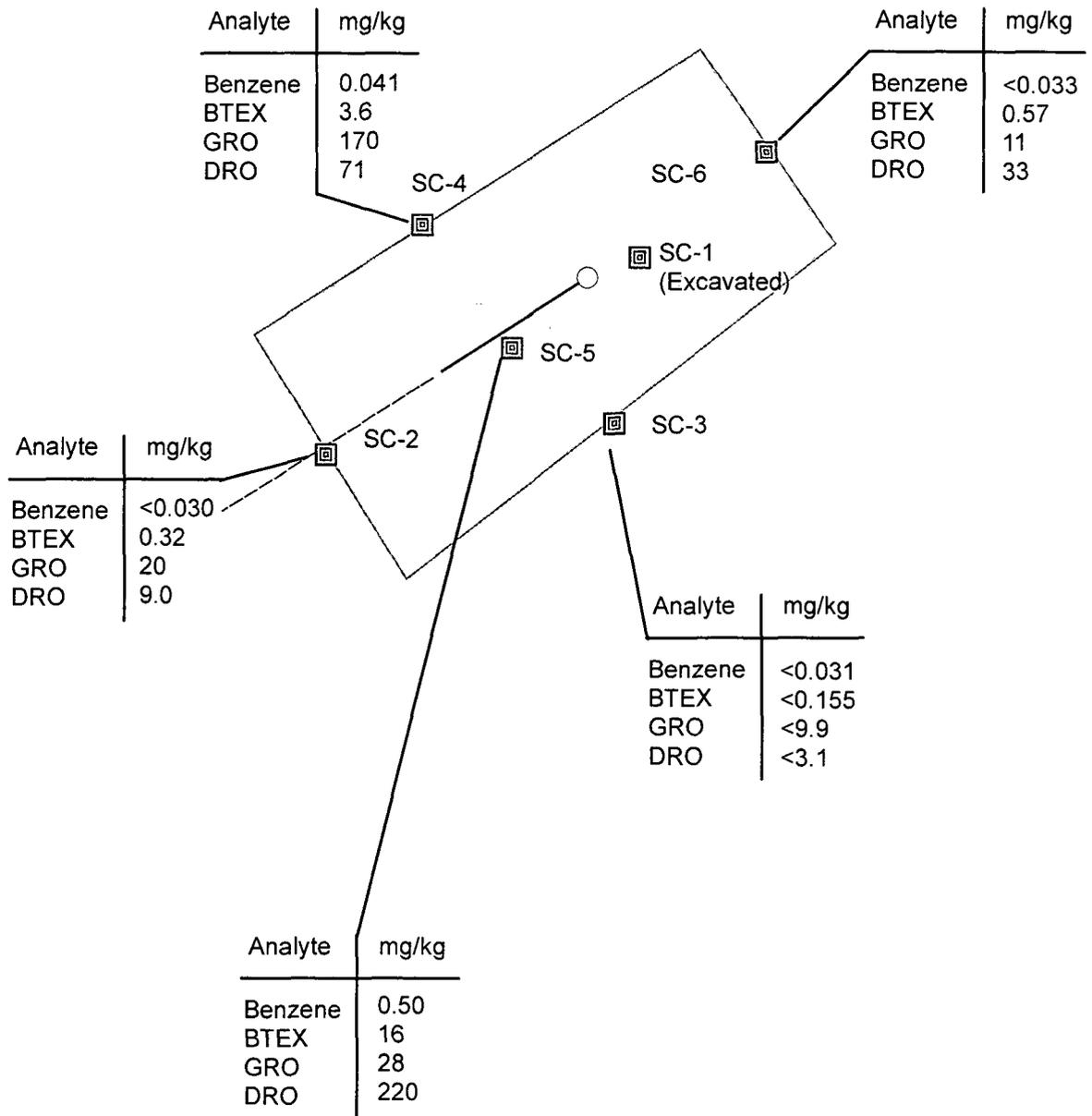
Aerial Map

Enterprise Products
Lateral K-36
San Juan 28-7 Unit #3 P/A

Date: 2/12/2015

File: 150129 Aerial Site Map.pdf

Figure: 2



Legend

- Release Location
- ▣ Soil Sample
- Buried Pipeline
- Exposed Pipeline

Notes:
 BTEX= Benzene, Toluene, Ethylbenzene, and Xylenes
 GRO= Gasoline Range Organics
 DRO= Diesel Range Organics

All samples are composite samples.
 Samples SC-1 through SC-5 were collected on January 9, 2015.
 Sample SC-6 was collected on January 9, 2015



Appendix A
Executed C-138 Solid Waste
Acceptance Form

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
97057-0681
*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 | Jan. 2015 |
| 2. Originating Site: San Juan 28-7 Unit #3 P/A Pipeline | |
| 3. Location of Material (Street Address, City, State or ULSTR): Unit Letter N, Section 6, T27N, R7W; 36.599.37, -107.619455 | |
| 4. Source and Description of Waste: Hydrocarbon impacted soils associated with a release from a natural gas pipeline. | |
| 5. Estimated Volume <u>20</u> (yd ³) bbls Known Volume (to be entered by the operator at the end of the haul) <u>130</u> (yd ³) bbls | |
| 5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS | |
| I, <u>Thomas Long</u> representative or authorized agent for <u>Enterprise Field Services, LLC</u> 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) | |
| <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 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 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>Thomas Long</u> , representative for <u>Enterprise Field Services, LLC</u> authorize Envirotech, Inc. to Generator Signature complete the required testing/sign the Generator Waste Testing Certification. | |
| I, _____, representative for <u>Envirotech, Inc.</u> 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: <u>West State Entergy Contractors, HBL, Doug Fontz, 4 States</u> | |

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: Kendra Rimmus TITLE: Waste Coordinator DATE: 1/7/15
SIGNATURE: Kendra Rimmus TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

Appendix B

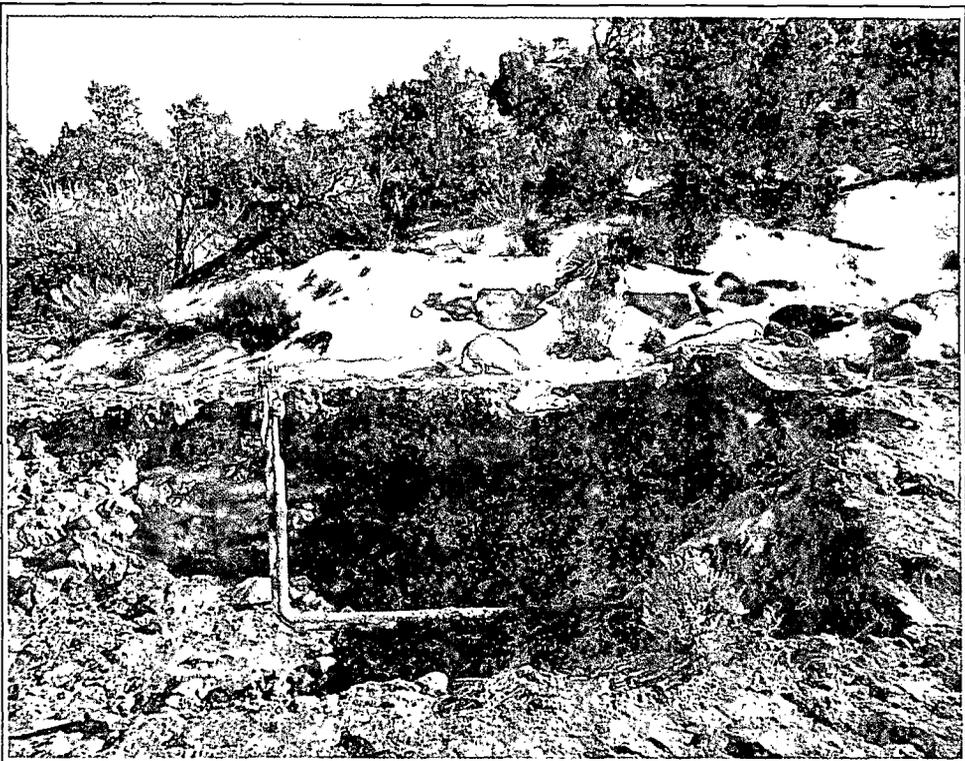
Photograph Log

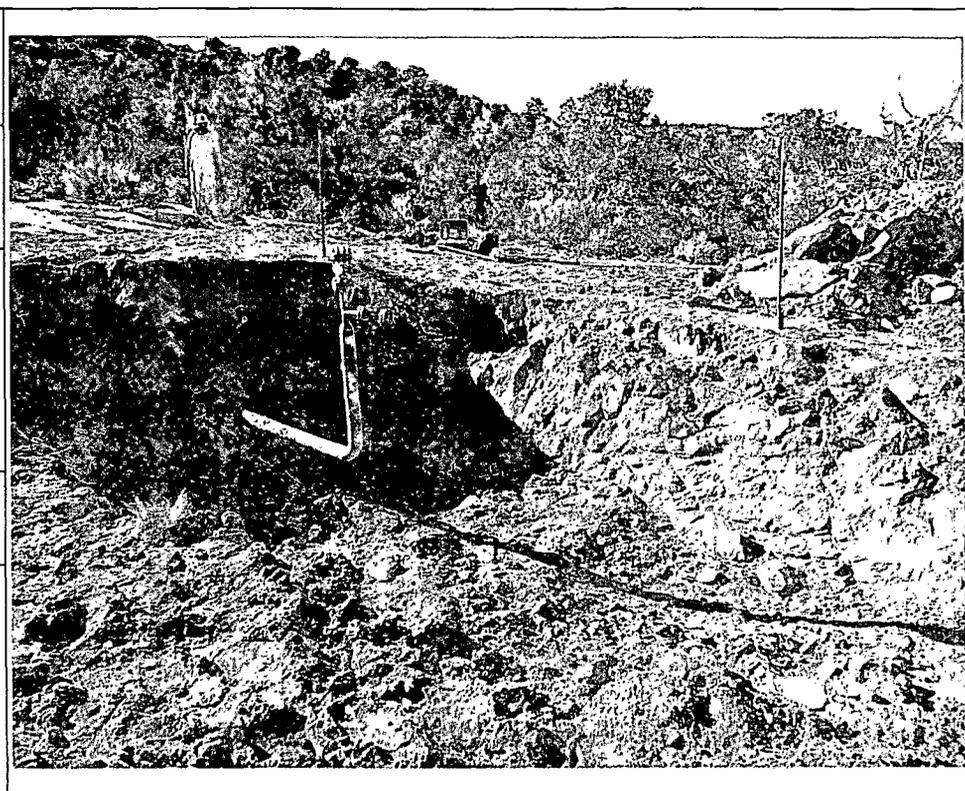
Photograph Log
Lateral K-36/San Juan 28-7 Unit #3 P/A
Enterprise Products

| | |
|--|--|
| <p>Photograph #1</p> | |
| <p>Client: Enterprise Products</p> | |
| <p>Site Name: Lateral K-36/ San Juan 28-7 Unit #3 P/A</p> | |
| <p>Date Photo Taken: December 16, 2014</p> | |
| <p>Release Location: N36.59906, W107.61945 N-06-27N-07W Rio Arriba County, New Mexico</p> | |
| <p>Photo Taken by: Deborah Watson</p> | <p>Description: Facing S, looking at the San Juan 28-7 Unit #3 P/A abandoned meter stem, along Lateral K-36 pipeline. Photo shows surface extent of release reported on December 15, 2014.</p> |

| | |
|--|--|
| <p>Photograph #2</p> | |
| <p>Client: Enterprise Products</p> | |
| <p>Site Name: Lateral K-36/ San Juan 28-7 Unit #3 P/A</p> | |
| <p>Date Photo Taken: January 9, 2015</p> | |
| <p>Release Location: N36.59906, W107.61945 N-06-27N-07W Rio Arriba County, New Mexico</p> | |
| <p>Photo Taken by: Deborah Watson</p> | <p>Description: Facing SE, looking at excavation following remediation on January 7, 2015. Excavation measured approximately 19 feet x 16 feet x 6 (to 7) feet in depth.</p> |

Photograph Log
Lateral K-36/San Juan 28-7 Unit #3 P/A
Enterprise Products

| | |
|--|--|
| <p>Photograph #3</p> |  |
| <p>Client: Enterprise Products</p> | |
| <p>Site Name: Lateral K-36/ San Juan 28-7 Unit #3 P/A</p> | |
| <p>Date Photo Taken: January 23, 2015</p> | |
| <p>Release Location: N36.59906, W107.61945 N-06-27N-07W Rio Arriba County, New Mexico</p> | |
| <p>Photo Taken by: Deborah Watson</p> | <p>Description: Facing SE, looking at exposed Lateral K-36 pipeline and San Juan 28-7 Unit #3 P/A abandoned meter stem. Final area of excavation measured 30.5 feet x 13 (to 16) feet x 3 (to 7) feet in depth</p> |

| | |
|--|---|
| <p>Photograph #4</p> |  |
| <p>Client: Enterprise Products</p> | |
| <p>Site Name: Lateral K-36/ San Juan 28-7 Unit #3 P/A</p> | |
| <p>Date Photo Taken: January 23, 2015</p> | |
| <p>Release Location: N36.59906, W107.61945 N-06-27N-07W Rio Arriba County, New Mexico</p> | |
| <p>Photo Taken by: Deborah Watson</p> | <p>Description: Facing SW, looking at exposed Lateral K-36 pipeline and San Juan 28-7 Unit #3 P/A abandoned meter stem.</p> |

Appendix C
Analytical Laboratory Reports



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

January 14, 2015

Deborah Watson
Rule Engineering LLC
501 Airport Dr., Ste 205
Farmington, NM 87401
TEL: (505) 860-2712
FAX

RE: Lateral K-36/San Juan 28-7 Unit #3

OrderNo.: 1501338

Dear Deborah Watson:

Hall Environmental Analysis Laboratory received 5 sample(s) on 1/10/2015 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-1

Project: Lateral K-36/San Juan 28-7 Unit #3

Collection Date: 1/9/2015 1:38:00 PM

Lab ID: 1501338-001

Matrix: SOIL

Received Date: 1/10/2015 12:40:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|--------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 180 | 9.9 | | mg/Kg | 1 | 1/14/2015 4:27:37 AM | 17169 |
| Surr: DNOP | 97.0 | 63.5-128 | | %REC | 1 | 1/14/2015 4:27:37 AM | 17169 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 1000 | 35 | | mg/Kg | 10 | 1/12/2015 10:47:45 AM | R23589 |
| Surr: BFB | 408 | 80-120 | S | %REC | 10 | 1/12/2015 10:47:45 AM | R23589 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | 0.60 | 0.35 | | mg/Kg | 10 | 1/12/2015 10:47:45 AM | R23589 |
| Toluene | 16 | 0.35 | | mg/Kg | 10 | 1/12/2015 10:47:45 AM | R23589 |
| Ethylbenzene | 5.1 | 0.35 | | mg/Kg | 10 | 1/12/2015 10:47:45 AM | R23589 |
| Xylenes, Total | 65 | 0.71 | | mg/Kg | 10 | 1/12/2015 10:47:45 AM | R23589 |
| Surr: 4-Bromofluorobenzene | 132 | 80-120 | S | %REC | 10 | 1/12/2015 10:47:45 AM | R23589 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Analytical Report

Lab Order 1501338

Date Reported: 1/14/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-2

Project: Lateral K-36/San Juan 28-7 Unit #3

Collection Date: 1/9/2015 1:33:00 PM

Lab ID: 1501338-002

Matrix: SOIL

Received Date: 1/10/2015 12:40:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|--------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 20 | 10 | | mg/Kg | 1 | 1/14/2015 4:57:56 AM | 17169 |
| Surr: DNOP | 96.7 | 63.5-128 | | %REC | 1 | 1/14/2015 4:57:56 AM | 17169 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 9.0 | 3.0 | | mg/Kg | 1 | 1/12/2015 11:15:03 AM | R23589 |
| Surr: BFB | 138 | 80-120 | S | %REC | 1 | 1/12/2015 11:15:03 AM | R23589 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.030 | | mg/Kg | 1 | 1/12/2015 11:15:03 AM | R23589 |
| Toluene | 0.075 | 0.030 | | mg/Kg | 1 | 1/12/2015 11:15:03 AM | R23589 |
| Ethylbenzene | 0.043 | 0.030 | | mg/Kg | 1 | 1/12/2015 11:15:03 AM | R23589 |
| Xylenes, Total | 0.20 | 0.061 | | mg/Kg | 1 | 1/12/2015 11:15:03 AM | R23589 |
| Surr: 4-Bromofluorobenzene | 115 | 80-120 | | %REC | 1 | 1/12/2015 11:15:03 AM | R23589 |

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 |
| 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 |
| O | RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R | RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | |

Analytical Report

Lab Order 1501338

Date Reported: 1/14/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-3

Project: Lateral K-36/San Juan 28-7 Unit #3

Collection Date: 1/9/2015 1:29:00 PM

Lab ID: 1501338-003

Matrix: SOIL

Received Date: 1/10/2015 12:40:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|--------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 1/14/2015 5:27:35 AM | 17169 |
| Surr: DNOP | 94.1 | 63.5-128 | | %REC | 1 | 1/14/2015 5:27:35 AM | 17169 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 3.1 | | mg/Kg | 1 | 1/12/2015 11:42:27 AM | R23589 |
| Surr: BFB | 94.8 | 80-120 | | %REC | 1 | 1/12/2015 11:42:27 AM | R23589 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.031 | | mg/Kg | 1 | 1/12/2015 11:42:27 AM | R23589 |
| Toluene | ND | 0.031 | | mg/Kg | 1 | 1/12/2015 11:42:27 AM | R23589 |
| Ethylbenzene | ND | 0.031 | | mg/Kg | 1 | 1/12/2015 11:42:27 AM | R23589 |
| Xylenes, Total | ND | 0.062 | | mg/Kg | 1 | 1/12/2015 11:42:27 AM | R23589 |
| Surr: 4-Bromofluorobenzene | 118 | 80-120 | | %REC | 1 | 1/12/2015 11:42:27 AM | R23589 |

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 | |
| | 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 | Page 3 of 8 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. | |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit | |
| | S Spike Recovery outside accepted recovery limits | | |

Analytical Report

Lab Order 1501338

Date Reported: 1/14/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-4

Project: Lateral K-36/San Juan 28-7 Unit #3

Collection Date: 1/9/2015 1:35:00 PM

Lab ID: 1501338-004

Matrix: SOIL

Received Date: 1/10/2015 12:40:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 170 | 9.9 | | mg/Kg | 1 | 1/14/2015 5:57:42 AM | 17169 |
| Surr: DNOP | 109 | 63.5-128 | | %REC | 1 | 1/14/2015 5:57:42 AM | 17169 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 71 | 3.3 | | mg/Kg | 1 | 1/12/2015 12:09:54 PM | R23589 |
| Surr: BFB | 430 | 80-120 | S | %REC | 1 | 1/12/2015 12:09:54 PM | R23589 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | 0.041 | 0.033 | | mg/Kg | 1 | 1/12/2015 12:09:54 PM | R23589 |
| Toluene | 0.15 | 0.033 | | mg/Kg | 1 | 1/12/2015 12:09:54 PM | R23589 |
| Ethylbenzene | ND | 0.033 | | mg/Kg | 1 | 1/12/2015 12:09:54 PM | R23589 |
| Xylenes, Total | 3.4 | 0.066 | | mg/Kg | 1 | 1/12/2015 12:09:54 PM | R23589 |
| Surr: 4-Bromofluorobenzene | 139 | 80-120 | S | %REC | 1 | 1/12/2015 12:09:54 PM | R23589 |

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 |
| 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 |
| O | RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R | RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-5

Project: Lateral K-36/San Juan 28-7 Unit #3

Collection Date: 1/9/2015 1:27:00 PM

Lab ID: 1501338-005

Matrix: SOIL

Received Date: 1/10/2015 12:40:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 28 | 10 | | mg/Kg | 1 | 1/14/2015 6:27:59 AM | 17169 |
| Surr: DNOP | 90.9 | 63.5-128 | | %REC | 1 | 1/14/2015 6:27:59 AM | 17169 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 220 | 3.2 | | mg/Kg | 1 | 1/12/2015 3:16:38 PM | 17155 |
| Surr: BFB | 348 | 80-120 | S | %REC | 1 | 1/12/2015 3:16:38 PM | 17155 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | 0.50 | 0.032 | | mg/Kg | 1 | 1/12/2015 3:16:38 PM | 17155 |
| Toluene | 4.1 | 0.32 | | mg/Kg | 10 | 1/12/2015 9:01:25 PM | 17155 |
| Ethylbenzene | 0.51 | 0.032 | | mg/Kg | 1 | 1/12/2015 3:16:38 PM | 17155 |
| Xylenes, Total | 11 | 0.64 | | mg/Kg | 10 | 1/12/2015 9:01:25 PM | 17155 |
| Surr: 4-Bromofluorobenzene | 145 | 80-120 | S | %REC | 1 | 1/12/2015 3:16:38 PM | 17155 |

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 | |
| | 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 | Page 5 of 8 |
| | O RSD is greater than RSDlimit | P Sample pH greater than 2. | |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit | |
| | S Spike Recovery outside accepted recovery limits | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1501338

14-Jan-15

Client: Rule Engineering LLC
Project: Lateral K-36/San Juan 28-7 Unit #3

| Sample ID MB-17169 | SampType: MBLK | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 17169 | RunNo: 23580 | | | | | | | | |
| Prep Date: 1/12/2015 | Analysis Date: 1/12/2015 | SeqNo: 696520 | | | 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 | 8.6 | | 10.00 | | 86.2 | 63.5 | 128 | | | |

| Sample ID LCS-17169 | SampType: LCS | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 17169 | RunNo: 23634 | | | | | | | | |
| Prep Date: 1/12/2015 | Analysis Date: 1/13/2015 | SeqNo: 697804 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 53 | 10 | 50.00 | 0 | 105 | 67.8 | 130 | | | |
| Surr: DNOP | 4.4 | | 5.000 | | 87.8 | 63.5 | 128 | | | |

| Sample ID LCS-17189 | SampType: LCS | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 17189 | RunNo: 23634 | | | | | | | | |
| Prep Date: 1/13/2015 | Analysis Date: 1/14/2015 | SeqNo: 697805 | | | Units: %REC | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 3.7 | | 5.000 | | 74.1 | 63.5 | 128 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1501338
 14-Jan-15

Client: Rule Engineering LLC
Project: Lateral K-36/San Juan 28-7 Unit #3

| Sample ID 5ML RB | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: R23589 | | RunNo: 23589 | | | | | | | |
| Prep Date: | Analysis Date: 1/12/2015 | | SeqNo: 697022 | | 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 | 880 | | 1000 | | 88.1 | 80 | 120 | | | |

| Sample ID 2.5UG GRO LCS | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|--------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: R23589 | | RunNo: 23589 | | | | | | | |
| Prep Date: | Analysis Date: 1/12/2015 | | SeqNo: 697023 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21 | 5.0 | 25.00 | 0 | 84.4 | 65.8 | 139 | | | |
| Surr: BFB | 910 | | 1000 | | 90.6 | 80 | 120 | | | |

| Sample ID MB-17155 | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 17155 | | RunNo: 23591 | | | | | | | |
| Prep Date: 1/9/2015 | Analysis Date: 1/12/2015 | | SeqNo: 697041 | | 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 | 940 | | 1000 | | 93.9 | 80 | 120 | | | |

| Sample ID LCS-17155 | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 17155 | | RunNo: 23591 | | | | | | | |
| Prep Date: 1/9/2015 | Analysis Date: 1/12/2015 | | SeqNo: 697042 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 28 | 5.0 | 25.00 | 0 | 111 | 65.8 | 139 | | | |
| Surr: BFB | 1100 | | 1000 | | 108 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1501338

14-Jan-15

Client: Rule Engineering LLC
Project: Lateral K-36/San Juan 28-7 Unit #3

| Sample ID: 5ML RB | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: R23589 | RunNo: 23589 | | | | | | | | |
| Prep Date: | Analysis Date: 1/12/2015 | SeqNo: 697028 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.050 | | | | | | | | |
| 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: 100NG BTEX LCS | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: R23589 | RunNo: 23589 | | | | | | | | |
| Prep Date: | Analysis Date: 1/12/2015 | SeqNo: 697029 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.050 | 1.000 | 0 | 101 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 102 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 102 | 80 | 120 | | | |
| Xylenes, Total | 3.2 | 0.10 | 3.000 | 0 | 107 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 110 | 80 | 120 | | | |

| Sample ID: MB-17155 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 17155 | RunNo: 23591 | | | | | | | | |
| Prep Date: 1/9/2015 | Analysis Date: 1/12/2015 | SeqNo: 697081 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.050 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 108 | 80 | 120 | | | |

| Sample ID: LCS-17155 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 17155 | RunNo: 23591 | | | | | | | | |
| Prep Date: 1/9/2015 | Analysis Date: 1/12/2015 | SeqNo: 697082 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.1 | 0.050 | 1.000 | 0 | 105 | 80 | 120 | | | |
| Toluene | 1.1 | 0.050 | 1.000 | 0 | 112 | 80 | 120 | | | |
| Ethylbenzene | 1.1 | 0.050 | 1.000 | 0 | 114 | 80 | 120 | | | |
| Xylenes, Total | 3.4 | 0.10 | 3.000 | 0 | 112 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.2 | | 1.000 | | 118 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: **RULE ENGINEERING LL**

Work Order Number: **1501338**

RcptNo: **1**

Received by/date: AT 01/10/15

Logged By: **Anne Thorne** 1/10/2015 12:40:00 PM *Anne Thorne*

Completed By: **Anne Thorne** 1/12/2015 *Anne Thorne*

Reviewed By: *JB* 1/12/15

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
(Note discrepancies on chain of custody)
- 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? Yes No
(If no, notify customer for authorization.)

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 | 1.4 | Good | Yes | | | |

Chain-of-Custody Record

Client: Rule Engineering

Mailing Address: 501 Airport Drive
Suite 205 Farmington NM 87401

Phone #: 505 325 9355

email or Fax#:

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation
 NELAP Other _____

EDD (Type)

Turn-Around Time:

Standard Rush Sameday

Project Name: Lateral K-36/San Juan 28-7 Unit #3

Project #:

Project Manager: D. Watson

Sampler: D. Watson

On Ice: Yes No

Sample Temperature: 14



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No | BTEX + TOLUENE (8021) | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO/DRO/MRO) | TPH (Method 418.1) | EDB (Method 504.1) | PAH's (8310 or 8270 SIMS) | RCRA 8 Metals | Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | Air Bubbles (Y or N) |
|--------|------|--------|-------------------|----------------------|-------------------|---------|-----------------------|------------------------------|-------------------------|--------------------|--------------------|---------------------------|---------------|--|------------------------------|-------------|-----------------|----------------------|
| 1-9-15 | 1338 | Soil | SC-1 | 1-402 Tweeth | cold Meeth | 501338 | X | X | X | | | | | | | | | |
| 1-9-15 | 1333 | Soil | SC-2 | | | | X | X | | | | | | | | | | |
| 1-9-15 | 1329 | Soil | SC-3 | | | | X | X | | | | | | | | | | |
| 1-9-15 | 1335 | Soil | SC-4 | | | | X | X | | | | | | | | | | |
| 1-9-15 | 1327 | Soil | SC-5 | | | | X | X | | | | | | | | | | |

Date: 1/9/15 Time: 1652 Relinquished by: Debra Watson

Received by: Christie White Date: 1/9/15 Time: 1652

Remarks: Bill to Enterprise

Date: 1/9/15 Time: 1740 Relinquished by: Christie White

Received by: Anna Stone Date: 01/10/15 Time: 1246

Area 300C
WO: 967287
PayKey Code: GG11580 attn: Tom Long

If necessary samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

January 26, 2015

Deborah Watson
Rule Engineering LLC
501 Airport Dr., Ste 205
Farmington, NM 87401
TEL: (505) 860-2712
FAX

RE: Lateral K-36/San Juan 28-7 Unit 3

OrderNo.: 1501864

Dear Deborah Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/24/2015 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

Analytical Report

Lab Order 1501864

Date Reported: 1/26/2015

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Rule Engineering LLC**Client Sample ID:** SC-6**Project:** Lateral K-36/San Juan 28-7 Unit 3**Collection Date:** 1/23/2015 1:15:00 PM**Lab ID:** 1501864-001**Matrix:** SOIL**Received Date:** 1/24/2015 11:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: WL |
| Diesel Range Organics (DRO) | 33 | 10 | | mg/Kg | 1 | 1/26/2015 11:11:06 AM | 17390 |
| Surr: DNOP | 80.3 | 63.5-128 | | %REC | 1 | 1/26/2015 11:11:06 AM | 17390 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 11 | 3.3 | | mg/Kg | 1 | 1/24/2015 3:35:56 PM | 17377 |
| Surr: BFB | 172 | 80-120 | S | %REC | 1 | 1/24/2015 3:35:56 PM | 17377 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.033 | | mg/Kg | 1 | 1/24/2015 3:35:56 PM | 17377 |
| Toluene | ND | 0.033 | | mg/Kg | 1 | 1/24/2015 3:35:56 PM | 17377 |
| Ethylbenzene | ND | 0.033 | | mg/Kg | 1 | 1/24/2015 3:35:56 PM | 17377 |
| Xylenes, Total | 0.57 | 0.065 | | mg/Kg | 1 | 1/24/2015 3:35:56 PM | 17377 |
| Surr: 4-Bromofluorobenzene | 114 | 80-120 | | %REC | 1 | 1/24/2015 3:35:56 PM | 17377 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1501864

26-Jan-15

Client: Rule Engineering LLC
Project: Lateral K-36/San Juan 28-7 Unit 3

| Sample ID: MB-17390 | SampType: MBLK | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 17390 | RunNo: 23871 | | | | | | | | |
| Prep Date: 1/26/2015 | Analysis Date: 1/26/2015 | SeqNo: 704287 | | | 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 | 7.4 | | 10.00 | | 73.7 | 63.5 | 128 | | | |

| Sample ID: LCS-17390 | SampType: LCS | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 17390 | RunNo: 23871 | | | | | | | | |
| Prep Date: 1/26/2015 | Analysis Date: 1/26/2015 | SeqNo: 704288 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|-----------------------------|-----|----|-------|---|------|------|-----|--|--|--|
| Diesel Range Organics (DRO) | 38 | 10 | 50.00 | 0 | 76.3 | 67.8 | 130 | | | |
| Surr: DNOP | 4.3 | | 5.000 | | 85.3 | 63.5 | 128 | | | |

| Sample ID: 1501864-001AMS | SampType: MS | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | |
|----------------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: SC-6 | Batch ID: 17390 | RunNo: 23871 | | | | | | | | |
| Prep Date: 1/26/2015 | Analysis Date: 1/26/2015 | SeqNo: 704532 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|-----------------------------|-----|----|-------|-------|------|------|-----|--|--|--|
| Diesel Range Organics (DRO) | 64 | 10 | 49.95 | 32.62 | 62.9 | 29.2 | 176 | | | |
| Surr: DNOP | 5.2 | | 4.995 | | 103 | 63.5 | 128 | | | |

| Sample ID: 1501864-001AMSD | SampType: MSD | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | |
|-----------------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: SC-6 | Batch ID: 17390 | RunNo: 23871 | | | | | | | | |
| Prep Date: 1/26/2015 | Analysis Date: 1/26/2015 | SeqNo: 704535 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|-----------------------------|-----|-----|-------|-------|------|------|-----|------|----|--|
| Diesel Range Organics (DRO) | 69 | 9.9 | 49.70 | 32.62 | 72.8 | 29.2 | 176 | 7.20 | 23 | |
| Surr: DNOP | 5.2 | | 4.970 | | 104 | 63.5 | 128 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1501864

26-Jan-15

Client: Rule Engineering LLC
Project: Lateral K-36/San Juan 28-7 Unit 3

| Sample ID: MB-17377 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 17377 | RunNo: 23862 | | | | | | | | |
| Prep Date: 1/23/2015 | Analysis Date: 1/24/2015 | SeqNo: 704138 | | | 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 | 880 | | 1000 | | 88.4 | 80 | 120 | | | |

| Sample ID: LCS-17377 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 17377 | RunNo: 23862 | | | | | | | | |
| Prep Date: 1/23/2015 | Analysis Date: 1/24/2015 | SeqNo: 704139 | | | 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 | 89.6 | 65.8 | 139 | | | |
| Surr: BFB | 970 | | 1000 | | 97.5 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1501864

26-Jan-15

Client: Rule Engineering LLC
Project: Lateral K-36/San Juan 28-7 Unit 3

| Sample ID | MB-17377 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 17377 | RunNo: | 23862 | | | | | |
| Prep Date: | 1/23/2015 | Analysis Date: | 1/24/2015 | SeqNo: | 704149 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.050 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.98 | | 1.000 | | 98.3 | 80 | 120 | | | |

| Sample ID | LCS-17377 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 17377 | RunNo: | 23862 | | | | | |
| Prep Date: | 1/23/2015 | Analysis Date: | 1/24/2015 | SeqNo: | 704150 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.050 | 1.000 | 0 | 101 | 80 | 120 | | | |
| Toluene | 0.96 | 0.050 | 1.000 | 0 | 95.9 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 101 | 80 | 120 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 100 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 106 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit



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: **RULE ENGINEERING LL**

Work Order Number: **1501864**

ReptNo: **1**

Received by/date: AT 01/24/15

Logged By: **Anne Thorne** 1/24/2015 11:30:00 AM *Anne Thorne*

Completed By: **Anne Thorne** 1/24/2015 *Anne Thorne*

Reviewed By: AT 01/24/15

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: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

18. Cooler Information

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

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

MAR 30 2015

Form C-141
Revised August 8, 2011

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: San Juan 29-5 #214 | Facility Type: Natural Gas Gather Pipeline |

| | | |
|------------------------|--------------------|---------|
| Surface Owner: Private | Mineral Owner: BLM | API No. |
|------------------------|--------------------|---------|

LOCATION OF RELEASE

| | | | | | | | | |
|-------------------------|----------------------|------------------------|---------------------|------------------------------|----------------------------|------------------------------|--------------------------|-----------------------------|
| Unit Letter G | Section 27 | Township 29N | Range 10W | Feet from the 1401 | <u>North</u> South Line | Feet from the 1350 | <u>East</u> West Line | County Rio Arriba |
|-------------------------|----------------------|------------------------|---------------------|------------------------------|----------------------------|------------------------------|--------------------------|-----------------------------|

Latitude 36.699905 Longitude -107.340519

NATURE OF RELEASE

| | | |
|--|--|--|
| Type of Release: Natural Gas Liquids | Volume of Release 3-5 BBLs of Liquids | Volume Recovered: None |
| Source of Release: Internal Corrosion | Date and Hour of Occurrence: 1/26/2015@ 1:45 p.m. | Date and Hour of Discovery: 1/26/2015@ 3:30 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 – Cory Smith - NMOCD | |
| By Whom? Thomas Long | Date and Hour 2/9/2015 @ 8:20 a.m. | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action: On January 26, 2015, a leak was discovered approximately two feet from the downstream end of the meter run on the SJ 29-5 #214 well location. The single well tie line was isolated, de-pressured and lock out tag out was applied. The contaminant mass was removed by excavation. A third party environmental contractor oversaw excavation activities and collected closure samples.

Describe Area Affected and Cleanup Action: Repairs and remediation were completed on February 9, 2015. An area approximately twenty-six (26) feet long by thirteen (13) feet wide by nine (9) feet deep was excavated. Approximately 108 cubic yards of hydrocarbon impacted soil was excavated and transported to a NMOCD 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: 5/6/15 | Expiration Date: |
| E-mail Address: jefields@eprod.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 3-24-2015 Phone: (713)381-6684 | | |

* Attach Additional Sheets If Necessary

#NCS 1507249522



OIL CONS. DIV DIST. 3

MAR 30 2015

CORRECTIVE ACTION REPORT

Property:

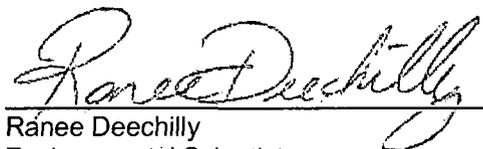
**San Juan 29-5 #214 Well Tie Pipeline Release
NE 1/4, S27 T29N R5W
Rio Arriba County, New Mexico**

February 26, 2015
Apex Project No. 7250415G003

Prepared for:

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

Prepared by:


Ranee Deechilly
Environmental Scientist


Elizabeth Scaggs, P.G.
Division Manager

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LIST OF APPENDICES

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CORRECTIVE ACTION REPORT

San Juan 29-5 #214 Well Tie Pipeline Release

NE 1/4, S27 T29N R5W

Rio Arriba County, New Mexico

Apex Project No. 7250415G003

1.0 INTRODUCTION

1.1 Site Description & Background

The San Juan 29-5 #214 Well Tie Pipeline Release Site is located within the Enterprise Field Services LLC (Enterprise) pipeline right-of-way (ROW) in the northeast (NE) ¼ of Section 27 in Township 29 North and Range 5 West in rural Rio Arriba County, New Mexico (36.69990N, 107.34051W), referred to hereinafter as the "Site" or "subject Site". The Site is located on land managed by the United States Forest Service (USFS). The Site is surrounded by native vegetation rangeland periodically interrupted with oil and gas production and gathering facilities, including the Enterprise natural gas gathering pipeline which traverses the area from approximately north to south.

Beginning on February 5, 2015, Enterprise initiated corrective action activities at the Site in an effort to locate and repair the subsurface leak, and remediate potential hydrocarbon impact. The leak was subsequently identified and repaired. An unknown quantity of natural gas was released from the pipeline as a result of internal corrosion. The leak was identified by a release of natural gas at the ground surface.

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 actions 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* 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 TITAN, Inc. (Apex) utilized the general site characteristics obtained during the completion of corrective action activities and information available from the Office of the New Mexico Office of the State Engineer (OSE) 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 | 20 |
| | 200 to 1,000 feet | 10 | |
| | >1,000 feet | 0 | |
| Total Ranking Score | | | 20 |

Based on Apex's evaluation of the scoring criteria, the Site would have a maximum Total Ranking Score of "20". This ranking is based on the following:

- Depth to groundwater is anticipated to be greater than 100 feet below grade surface (bgs). One water well, located approximately 3,100 feet to the west of the Site, was identified on the Office of the State Engineer (OSE) website database with a depth to water of 120 feet. Additionally, a cathodic well report for the San Juan 29-5 #214 indicates a depth to water of 150 feet, resulting in a depth to groundwater ranking of "0".
- 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 less than 100 feet from a small ephemeral wash that drains to an arroyo northwest of the Site, resulting in a distance to surface water ranking of "20".

3.0 RESPONSE ACTIONS

3.1 Soil Excavation Activities

Beginning on February 5, 2015, Enterprise initiated corrective action activities at the Site in an effort to locate and repair the subsurface leak, and remediate potential hydrocarbon impact. The leak was subsequently identified and repaired. An unknown quantity of natural gas was released from the pipeline as a result of internal corrosion. The leak was identified by a release of natural gas at the ground surface. During the corrective action activities, West States Energy Contractors provided heavy equipment and labor support, and Heather Woods and Raneer Deechilly, Apex environmental professionals, provided environmental support.

Subsequent to the completion of pipeline repairs, the hydrocarbon affected soils were excavated from the Site, resulting in an initial excavation of approximately 16 feet long by eight (8) feet wide, with a total depth of approximately six (6) feet bgs. Confirmation composite samples C-1 and C-2 were collected from the floor and sidewalls of the excavation to evaluate soils remaining in place and composite sample SP-1 was collected from the soil stockpile to determine the potential to reuse these soils as excavation backfill. Subsequent analytical results indicated that the floor of the excavation (C-1) and the sidewalls (C-2) near the release still exhibited evidence of hydrocarbon impact.

The Site was over-excavated on February 9, 2015, to remove material from the sidewalls and excavation floor near the point of release. Analytical results from confirmation samples C-3

through C-7 indicate that the sidewalls and floor no longer show evidence of hydrocarbon impact above New Mexico EMNRD OCD *Remediation Action Levels* (RALs).

The surface expression of the final excavation related to corrective action measured approximately 26 feet long by 13 feet wide at the maximum width, with a total depth of approximately nine (9) feet bgs. The repair excavation was extended north, beyond these dimensions, to facilitate the replacement of a full section of pipe.

The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated silt with clay and weathered shale.

A total of approximately 108 cubic yards of hydrocarbon affected soils were transported to the Envirotech Landfarm near Hilltop, New Mexico 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 Site soils with a photoionization detector (PID) fitted with a 10.6 eV lamp to aid in determining the excavation limits.

Apex's soil sampling program included the collection of a total of seven (7) confirmation samples (C-1 through C-7) from the resulting excavation for laboratory analysis. Additionally, one (1) composite sample (SP-1) was collected from the stockpiled soils to determine the potential to reuse these soils as excavation backfill. 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 labels, and placed on ice in a cooler, which was secured with a custody seal. The sample cooler and completed chain-of-custody form were relinquished to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico, for rush analysis.

3.3 Laboratory Analytical Methods

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

New Mexico Administrative Code 19.15.29 *Remediation Plan*. 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 reporting limits associated with the final confirmation samples (C-3 through C-7) for soils remaining in place to the OCD *Remediation Action Levels* (RALs) for sites having a total ranking score of "20". Soils associated with C-1 and C-2 were removed by excavation and are not included in the following discussion.

- The laboratory analyses of confirmation samples collected from soils remaining in place do not indicate benzene concentrations above the laboratory reporting limits, which are below the OCD *Remediation Action Level*.
- The laboratory analyses of the confirmation samples collected from soils remaining in place do not indicate total BTEX concentrations above the laboratory reporting limits, which are below the OCD *Remediation Action Level*.
- The laboratory analyses of the confirmation samples collected from soils remaining in place indicate combined TPH GRO/DRO concentrations ranging from below the laboratory reporting limits to 13 milligrams per kilogram (mg/kg), which are below the OCD *Remediation Action Level* for a Site ranking of "20".

The laboratory analyses of the stockpile composite sample (SP-1) indicated TPH GRO/DRO concentrations above the OCD *Remediation Action Level* for a Site ranking of "20". The stockpiled soils resulting from the excavation were transported to the Envirotech Landfarm near Hilltop, New Mexico for disposal/remediation.

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

5.0 FINDINGS AND RECOMMENDATIONS

The San Juan 29-5 #214 Well Tie Pipeline Release Site is located within the Enterprise ROW in the NE ¼ of Section 27 in Township 29 North and Range 5 West in rural Rio Arriba County, New Mexico. The Site is located on land managed by the USFS. The Site is surrounded by native vegetation rangeland periodically interrupted with oil and gas production and gathering facilities, including the Enterprise natural gas gathering pipeline which traverses the area from approximately north to south.

Beginning on February 5, 2015, Enterprise initiated corrective action activities at the Site in an effort to locate and repair the subsurface leak, and remediate potential hydrocarbon impact. The leak was subsequently identified and repaired. An unknown quantity of natural gas was released from the pipeline as a result of internal corrosion. The leak was identified by a release of natural gas at the ground surface.

- 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 silt with clay and weathered shale.

- The surface expression of the final remedial action excavation measured approximately 26 feet long by 13 feet wide at the maximum width, with a total depth of approximately nine (9) feet bgs. The repair excavation was extended north, beyond these dimensions, to facilitate the replacement of a full section of pipe.
- Prior to backfilling, seven (7) confirmation samples were collected from the resulting excavation for laboratory analyses. Based on analytical results, soils remaining in place do not exhibit COC concentrations above the *OCD Remediation Action Levels* for a Site ranking of "20".
- A total of approximately 108 cubic yards of hydrocarbon affected soils were transported to the Envirotech Landfarm near Hilltop, New Mexico for disposal/remediation. The excavation was backfilled with clean imported fill and contoured to surrounding grade.

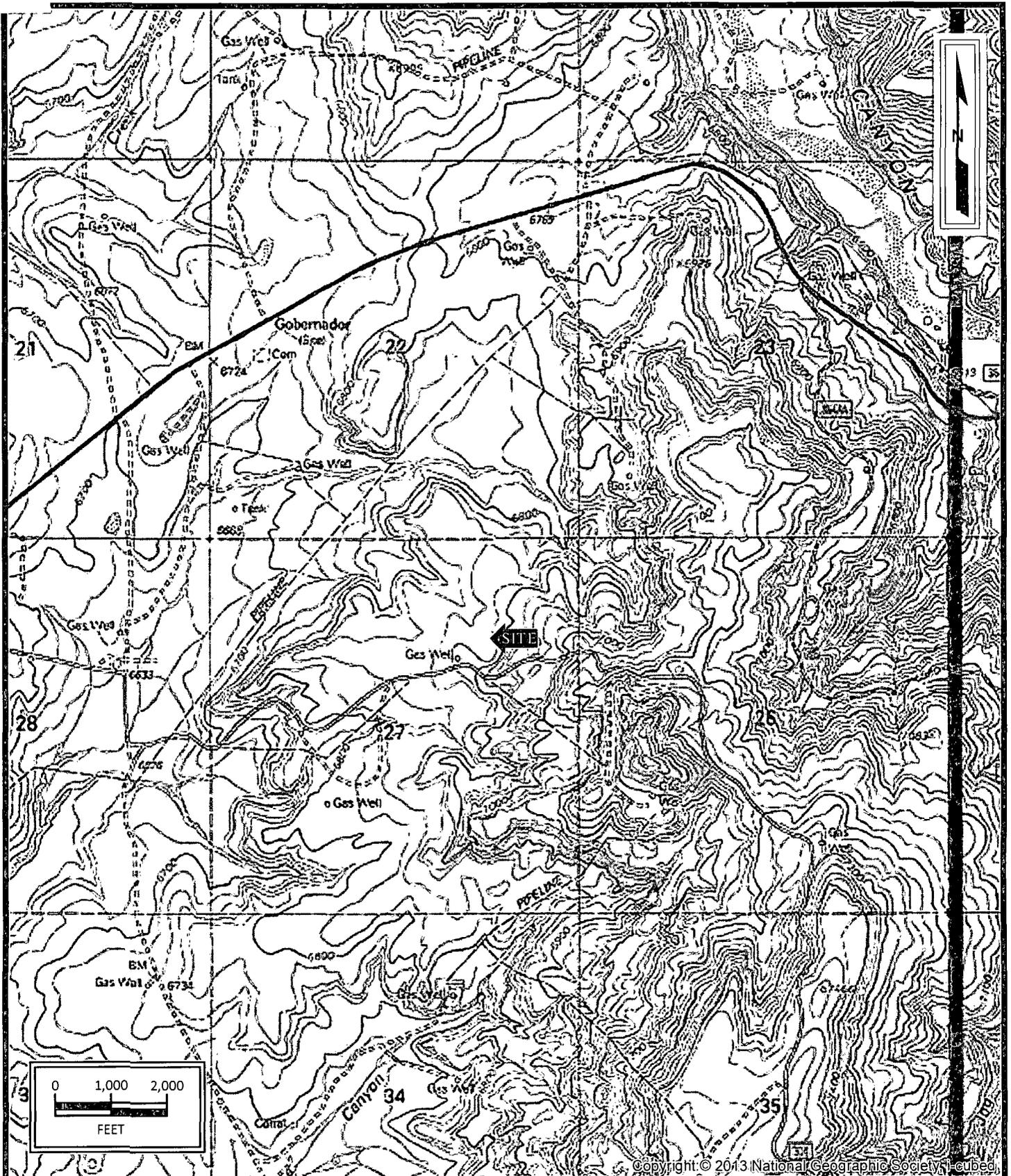
Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

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.



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San Juan 29-5 #214 Well Tie
 Pipeline Release
 NE1/4 Sec27 T29N R5W
 Rural Rio Arriba County, New Mexico
 36.6999N, 107.3405W

Project No. 7250415G003



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
 Gobernador, NM Quadrangle
 1963



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

San Juan 29-5 #214 Well Tie
 Pipeline Release
 NE1/4 Sec27 T29N R5W
 Rural Rio Arriba County, New Mexico
 36.6999N, 107.3405W

Project No. 7250415G003

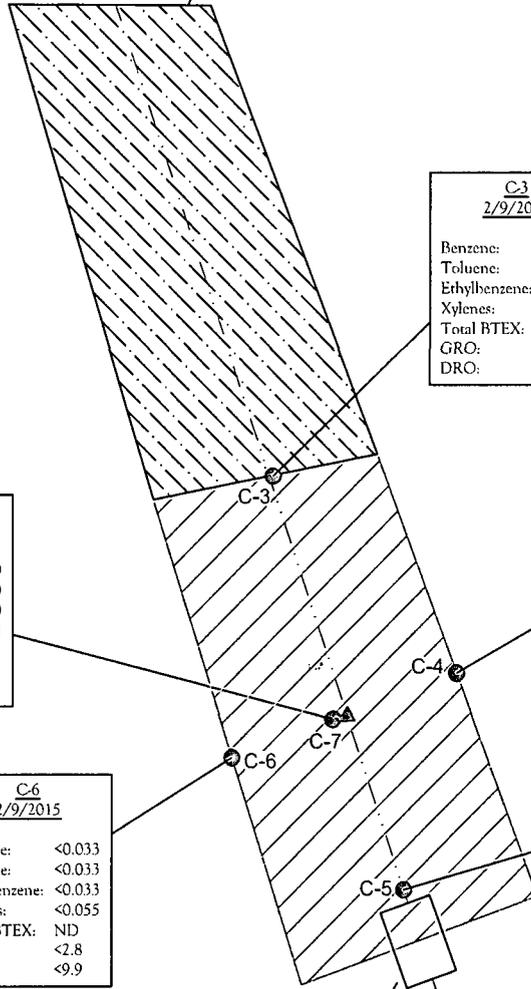


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FIGURE 2
Site Vicinity Map



EXCAVATED AREA FOR
PIPELINE REPAIR ACCESS



| C3 2/9/2015 | |
|----------------|--------|
| Benzene: | <0.033 |
| Toluene: | <0.033 |
| Ethylbenzene: | <0.033 |
| Xylenes: | <0.065 |
| Total BTEX: | ND |
| GRO: | <3.3 |
| DRO: | 12 |

| C4 2/9/2015 | |
|----------------|--------|
| Benzene: | <0.031 |
| Toluene: | <0.031 |
| Ethylbenzene: | <0.031 |
| Xylenes: | <0.061 |
| Total BTEX: | ND |
| GRO: | <3.1 |
| DRO: | <9.9 |

| C7 2/9/2015 | |
|----------------|--------|
| Benzene: | <0.030 |
| Toluene: | <0.030 |
| Ethylbenzene: | <0.030 |
| Xylenes: | <0.061 |
| Total BTEX: | ND |
| GRO: | <3.0 |
| DRO: | 13 |

| C6 2/9/2015 | |
|----------------|--------|
| Benzene: | <0.033 |
| Toluene: | <0.033 |
| Ethylbenzene: | <0.033 |
| Xylenes: | <0.055 |
| Total BTEX: | ND |
| GRO: | <2.8 |
| DRO: | <9.9 |

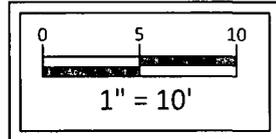
| C5 2/9/2015 | |
|----------------|--------|
| Benzene: | <0.026 |
| Toluene: | <0.026 |
| Ethylbenzene: | <0.026 |
| Xylenes: | <0.052 |
| Total BTEX: | ND |
| GRO: | <2.6 |
| DRO: | <10 |

METER
HOUSE

LEGEND:

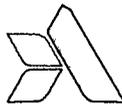
- PIPELINE
- SAMPLE LOCATION
- ▲ RELEASE POINT
- ▨ EXTENT OF EXCAVATION (APPROX. 9 FT DEEP)

NOTE: ALL VALUES ARE REPRESENTED IN mg/kg



**San Juan 29-5 #214 Well Tie
Pipeline Release**
NE1/4 Sec27 T29N R5W
Rural Rio Arriba County, New Mexico
36.6999N, 107.3405W

Project No. 7250415G003



Apex TITAN, Inc.
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Aztec, New Mexico 87410
Phone: (505) 334-5200
www.apexcos.com
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FIGURE 3
**Site Map with
Sample Locations**

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

97057-0686

Form C-138
Revised August 1, 2011

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

*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: SJ 29-5#214 Pipeline |
| 3. Location of Material (Street Address, City, State or ULSTR): Unit Letter G, Section 27, T29N, R10W; 36.699905, -107.340519 |
| 4. Source and Description of Waste: Hydrocarbon impacted soils associated with a release from a natural gas pipeline. |
| 5. Estimated Volume <u>50</u> (yd ³) bbls Known Volume (to be entered by the operator at the end of the haul) <u>108</u> (yd ³) / bbls |

Feb 2015

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* 2-9-15, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, Kendra Running *Kendra Running* 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: West State Entergy Contractors + Doug Fante

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: Kendra Running

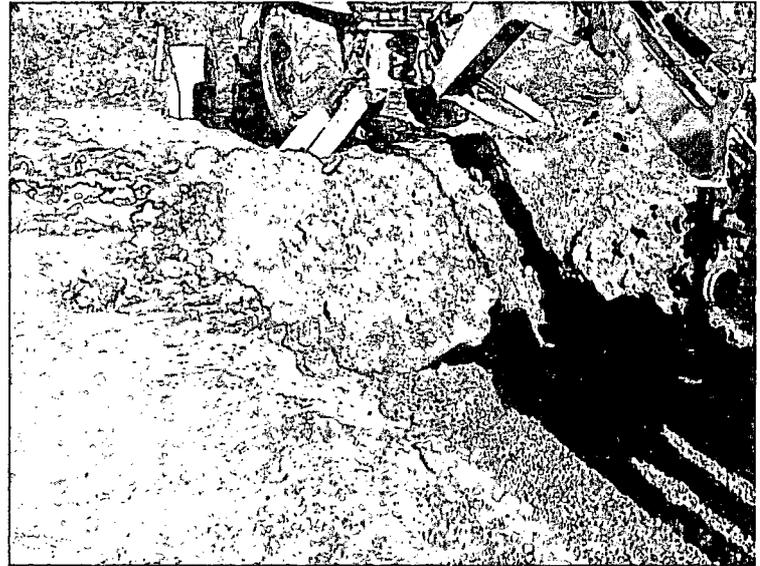
TITLE: Waste Coordinator DATE: 2-9-15

SIGNATURE: Kendra Running
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: 505-632-0615

Photograph 1

View of the Site at the beginning of corrective action activities, facing north.



Photograph 2

View of partially completed excavation, facing east.



Photograph 3

View of partially completed excavation, facing northwest.



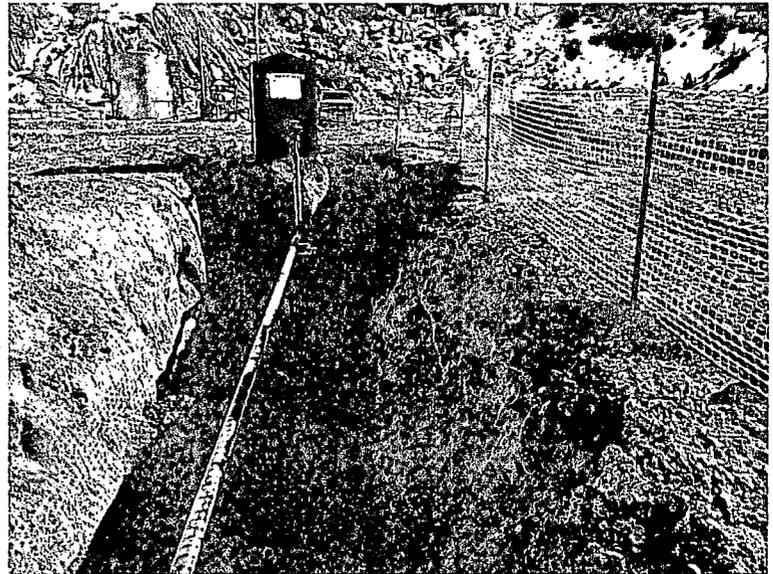
Photograph 4

View of stockpile, facing north.



Photograph 5

View of the final excavation at the completion of corrective action activities, facing southeast.



Photograph 6

View of the final excavation at the completion of corrective action activities, facing north.





TABLE 1
San Juan 29-5 #214 Well Tie 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 | |
| Stockpile Sample Removed to Landfarm | | | | | | | | | |
| SP-1 | 2/5/2015 | 2 to 9 | 0.21 | 3.1 | 0.88 | 11 | 15 | 140 | 740 |
| Confirmation Samples Removed by Excavation | | | | | | | | | |
| C-1 | 2/5/2015 | 2 to 9 | 4.0 | 36 | 7.9 | 100 | 148 | 950 | 8,400 |
| C-2 | 2/5/2015 | 2 to 9 | 1.1 | 12 | 4.0 | 56 | 73 | 570 | 3,200 |
| Excavation Confirmation Samples | | | | | | | | | |
| C-3 | 2/9/2015 | 2 to 9 | <0.033 | <0.033 | <0.033 | <0.065 | ND | <3.3 | 12 |
| C-4 | 2/9/2015 | 2 to 9 | <0.031 | <0.031 | <0.031 | <0.061 | ND | <3.1 | <9.9 |
| C-5 | 2/9/2015 | 2 to 9 | <0.026 | <0.026 | <0.026 | <0.052 | ND | <2.6 | <10 |
| C-6 | 2/9/2015 | 2 to 9 | <0.033 | <0.033 | <0.033 | <0.055 | ND | <2.8 | <9.9 |
| C-7 | 2/9/2015 | 9 | <0.030 | <0.030 | <0.030 | <0.061 | ND | <3.0 | 13 |

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

ND = Not Detected above the Laboratory Reporting Limits

NA = Not analyzed

NE = Not established



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

February 09, 2015

Heather Woods

APEX TITAN

606 S. Rio Grande Unit A

Aztec, NM 87410

TEL: (505) 716-2787

FAX

RE: Enterprise SJ 29-5 #214

OrderNo.: 1502256

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/6/2015 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: SP-1

Project: Enterprise SJ 29-5 #214

Collection Date: 2/5/2015 12:45:00 PM

Lab ID: 1502256-001

Matrix: MEOH (SOIL)

Received Date: 2/6/2015 7:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 740 | 9.9 | | mg/Kg | 1 | 2/6/2015 10:00:46 AM | 17601 |
| Surr: DNOP | 105 | 63.5-128 | | %REC | 1 | 2/6/2015 10:00:46 AM | 17601 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 140 | 13 | | mg/Kg | 5 | 2/6/2015 9:51:42 AM | 17580 |
| Surr: BFB | 274 | 80-120 | S | %REC | 5 | 2/6/2015 9:51:42 AM | 17580 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | 0.21 | 0.13 | | mg/Kg | 5 | 2/6/2015 9:51:42 AM | 17580 |
| Toluene | 3.1 | 0.13 | | mg/Kg | 5 | 2/6/2015 9:51:42 AM | 17580 |
| Ethylbenzene | 0.88 | 0.13 | | mg/Kg | 5 | 2/6/2015 9:51:42 AM | 17580 |
| Xylenes, Total | 11 | 0.26 | | mg/Kg | 5 | 2/6/2015 9:51:42 AM | 17580 |
| Surr: 4-Bromofluorobenzene | 125 | 80-120 | S | %REC | 5 | 2/6/2015 9:51:42 AM | 17580 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

QC SUMMARY REPORT

WO#: 1502256

Full Environmental Analysis Laboratory, Inc.

09-Feb-15

Client: APEX TITAN
Project: Enterprise SJ 29-5 #214

| Sample ID | MB-17601 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
|-----------------------------|-----------------|----------------|-----------------|-------------|--|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 17601 | RunNo: | 24136 | | | | | |
| Prep Date: | 2/6/2015 | Analysis Date: | 2/6/2015 | SeqNo: | 711775 | 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 | 8.5 | | 10.00 | | 84.7 | 63.5 | 128 | | | |

| Sample ID | LCS-17601 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
|-----------------------------|------------------|----------------|-----------------|-------------|--|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 17601 | RunNo: | 24136 | | | | | |
| Prep Date: | 2/6/2015 | Analysis Date: | 2/6/2015 | SeqNo: | 711776 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 50 | 10 | 50.00 | 0 | 99.7 | 67.8 | 130 | | | |
| Surr: DNOP | 4.9 | | 5.000 | | 98.1 | 63.5 | 128 | | | |

| Sample ID | MB-17564 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
|------------|-----------------|----------------|-----------------|-------------|--|----------|-------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 17564 | RunNo: | 24136 | | | | | |
| Prep Date: | 2/4/2015 | Analysis Date: | 2/6/2015 | SeqNo: | 712630 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 9.0 | | 10.00 | | 89.7 | 63.5 | 128 | | | |

| Sample ID | LCS-17564 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
|------------|------------------|----------------|-----------------|-------------|--|----------|-------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 17564 | RunNo: | 24136 | | | | | |
| Prep Date: | 2/4/2015 | Analysis Date: | 2/6/2015 | SeqNo: | 712631 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.9 | | 5.000 | | 98.2 | 63.5 | 128 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1502256

09-Feb-15

Client: APEX TITAN
Project: Enterprise SJ 29-5 #214

| | | | | | | | | | | |
|-------------------------------|----------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID | MB-17580 | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 17580 | RunNo: | 24152 | | | | | |
| Prep Date: | 2/5/2015 | Analysis Date: | 2/6/2015 | SeqNo: | 712397 | 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 | 940 | | 1000 | | 94.0 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|-----------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID | LCS-17580 | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 17580 | RunNo: | 24152 | | | | | |
| Prep Date: | 2/5/2015 | Analysis Date: | 2/6/2015 | SeqNo: | 712398 | 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 | 97.8 | 64 | 130 | | | |
| Surr: BFB | 1000 | | 1000 | | 103 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

WO#: 1502256

Hall Environmental Analysis Laboratory, Inc.

09-Feb-15

Client: APEX TITAN
Project: Enterprise SJ 29-5 #214

| Sample ID | MB-17580 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|----------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Client ID: | PBS | Batch ID: | 17580 | RunNo: | 24152 | | | | | |
| Prep Date: | 2/5/2015 | Analysis Date: | 2/6/2015 | SeqNo: | 712441 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| benzene | ND | 0.050 | | | | | | | | |
| toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 104 | 80 | 120 | | | |

| Sample ID | LCS-17580 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-----------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 17580 | RunNo: | 24152 | | | | | |
| Prep Date: | 2/5/2015 | Analysis Date: | 2/6/2015 | SeqNo: | 712442 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| benzene | 1.0 | 0.050 | 1.000 | 0 | 102 | 80 | 120 | | | |
| toluene | 0.96 | 0.050 | 1.000 | 0 | 95.7 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 101 | 80 | 120 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.000 | 0 | 102 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 111 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: **APEX AZTEC**

Work Order Number: **1502256**

RcptNo: **1**

Received by/date:

[Signature]

02/06/15

Logged By: **Lindsay Mangin**

2/6/2015 7:10:00 AM

[Signature]

Completed By: **Lindsay Mangin**

2/6/2015 7:29:13 AM

[Signature]

Reviewed By:

AJ 02/06/15

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 | 1.6 | Good | Yes | | | |



Office Location Aztec, NM

Laboratory: Hall Environmental

Address: Albuquerque, NM

Contact: Andy Freeman

Phone: _____

Project Manager Heather Woods

PO/SO #: 7250415004

ANALYSIS REQUESTED

Lab use only
Due Date:

Temp. of coolers when received (C°): 1.6

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

Page 1 of 1

Sampler's Name: Heather Woods / Rene Duchilly
Sampler's Signature: Heather Woods

Proj. No. 7250415004
Project Name Enterprise SJ 29-5 #214
No/Type of Containers _____

| Matrix | Date | Time | Comp | Grab | Identifying Marks of Sample(s) | Start Depth | End Depth | VOA | A/G 1 L. | 250 ml | Glass Jar | P/O | Lab Sample ID (Lab Use Only) |
|----------------|--------|------|------|------|--------------------------------|-------------|-----------|-----|----------|--------|-----------|-----|------------------------------|
| S | 2/5/15 | 1245 | | | SP-1 | | | | | | 1 | 1 | 1502256-001 |
| NFS | | | | | | | | | | | | | |

B021 BTEX
 B015 TPH GRADDED

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

| | | | | | |
|---|---------------------|-------------------|---|-----------------------|-------------------|
| Relinquished by (Signature): <u>Heather Woods</u> | Date: <u>2/5/15</u> | Time: <u>1510</u> | Received by (Signature): <u>Christine Walle</u> | Date: <u>2/5/15</u> | Time: <u>1510</u> |
| Relinquished by (Signature): <u>Christine Walle</u> | Date: <u>2/5/15</u> | Time: <u>1824</u> | Received by (Signature): <u>[Signature]</u> | Date: <u>02/06/15</u> | Time: <u>0710</u> |
| Relinquished by (Signature): _____ | Date: _____ | Time: _____ | Received by (Signature): _____ | Date: _____ | Time: _____ |
| Relinquished by (Signature): _____ | Date: _____ | Time: _____ | Received by (Signature): _____ | Date: _____ | Time: _____ |

NOTES: Direct bill to Enterprise
Attn: Tom Long

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 Litter, 250 ml - Glass wide mouth, P/O - Plastic or other VOA



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

February 09, 2015

Heather Woods
APEX TITAN
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (505) 716-2787
FAX

RE: Enterprise SJ 29-5 #214

OrderNo.: 1502257

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/6/2015 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: C-1

Project: Enterprise SJ 29-5 #214

Collection Date: 2/5/2015 1:00:00 PM

Lab ID: 1502257-001

Matrix: MEOH (SOIL)

Received Date: 2/6/2015 7:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 8400 | 100 | | mg/Kg | 10 | 2/6/2015 10:22:14 AM | 17601 |
| Surr: DNOP | 0 | 63.5-128 | S | %REC | 10 | 2/6/2015 10:22:14 AM | 17601 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 950 | 13 | | mg/Kg | 5 | 2/6/2015 10:20:30 AM | 17580 |
| Surr: BFB | 929 | 80-120 | S | %REC | 5 | 2/6/2015 10:20:30 AM | 17580 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | 4.0 | 0.13 | | mg/Kg | 5 | 2/6/2015 10:20:30 AM | 17580 |
| Toluene | 36 | 1.3 | | mg/Kg | 50 | 2/6/2015 12:15:23 PM | 17580 |
| Ethylbenzene | 7.9 | 0.13 | | mg/Kg | 5 | 2/6/2015 10:20:30 AM | 17580 |
| Xylenes, Total | 100 | 2.5 | | mg/Kg | 50 | 2/6/2015 12:15:23 PM | 17580 |
| Surr: 4-Bromofluorobenzene | 210 | 80-120 | S | %REC | 5 | 2/6/2015 10:20:30 AM | 17580 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** APEX TITAN**Client Sample ID:** C-2**Project:** Enterprise SJ 29-5 #214**Collection Date:** 2/5/2015 1:05:00 PM**Lab ID:** 1502257-002**Matrix:** MEOH (SOIL) **Received Date:** 2/6/2015 7:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 3200 | 100 | | mg/Kg | 10 | 2/6/2015 11:40:14 AM | 17601 |
| Surr: DNOP | 0 | 63.5-128 | S | %REC | 10 | 2/6/2015 11:40:14 AM | 17601 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 570 | 49 | | mg/Kg | 20 | 2/6/2015 12:44:12 PM | 17580 |
| Surr: BFB | 252 | 80-120 | S | %REC | 20 | 2/6/2015 12:44:12 PM | 17580 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | 1.1 | 0.49 | | mg/Kg | 20 | 2/6/2015 12:44:12 PM | 17580 |
| Toluene | 12 | 0.49 | | mg/Kg | 20 | 2/6/2015 12:44:12 PM | 17580 |
| Ethylbenzene | 4.0 | 0.49 | | mg/Kg | 20 | 2/6/2015 12:44:12 PM | 17580 |
| Xylenes, Total | 56 | 0.98 | | mg/Kg | 20 | 2/6/2015 12:44:12 PM | 17580 |
| Surr: 4-Bromofluorobenzene | 131 | 80-120 | S | %REC | 20 | 2/6/2015 12:44:12 PM | 17580 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

QC SUMMARY REPORT

WO#: 1502257

Full Environmental Analysis Laboratory, Inc.

09-Feb-15

Client: APEX TITAN
Project: Enterprise SJ 29-5 #214

Sample ID **MB-17601** SampType: **MBLK** TestCode: **EPA Method 8015D: Diesel Range Organics**
 Client ID: **PBS** Batch ID: **17601** RunNo: **24136**
 Prep Date: **2/6/2015** Analysis Date: **2/6/2015** SeqNo: **711775** 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 | 8.5 | | 10.00 | | 84.7 | 63.5 | 128 | | | |

Sample ID **LCS-17601** SampType: **LCS** TestCode: **EPA Method 8015D: Diesel Range Organics**
 Client ID: **LCSS** Batch ID: **17601** RunNo: **24136**
 Prep Date: **2/6/2015** Analysis Date: **2/6/2015** SeqNo: **711776** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------------------------|--------|-----|-----------|-------------|------|----------|-----------|------|----------|------|
| Diesel Range Organics (DRO) | 50 | 10 | 50.00 | 0 | 99.7 | 67.8 | 130 | | | |
| Surr: DNOP | 4.9 | | 5.000 | | 98.1 | 63.5 | 128 | | | |

Sample ID **MB-17564** SampType: **MBLK** TestCode: **EPA Method 8015D: Diesel Range Organics**
 Client ID: **PBS** Batch ID: **17564** RunNo: **24136**
 Prep Date: **2/4/2015** Analysis Date: **2/6/2015** SeqNo: **712630** Units: **%REC**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|-----|-----------|-------------|------|----------|-----------|------|----------|------|
| Surr: DNOP | 9.0 | | 10.00 | | 89.7 | 63.5 | 128 | | | |

Sample ID **LCS-17564** SampType: **LCS** TestCode: **EPA Method 8015D: Diesel Range Organics**
 Client ID: **LCSS** Batch ID: **17564** RunNo: **24136**
 Prep Date: **2/4/2015** Analysis Date: **2/6/2015** SeqNo: **712631** Units: **%REC**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|-----|-----------|-------------|------|----------|-----------|------|----------|------|
| Surr: DNOP | 4.9 | | 5.000 | | 98.2 | 63.5 | 128 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1502257

09-Feb-15

Client: APEX TITAN
Project: Enterprise SJ 29-5 #214

| | | | | | | | | | | |
|-------------------------------|----------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID | MB-17580 | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 17580 | RunNo: | 24152 | | | | | |
| Prep Date: | 2/5/2015 | Analysis Date: | 2/6/2015 | SeqNo: | 712397 | 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 | 940 | | 1000 | | 94.0 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|-----------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID | LCS-17580 | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 17580 | RunNo: | 24152 | | | | | |
| Prep Date: | 2/5/2015 | Analysis Date: | 2/6/2015 | SeqNo: | 712398 | 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 | 97.8 | 64 | 130 | | | |
| Surr: BFB | 1000 | | 1000 | | 103 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1502257

09-Feb-15

Client: APEX TITAN
Project: Enterprise SJ 29-5 #214

| Sample ID | MB-17580 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|----------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Client ID: | PBS | Batch ID: | 17580 | RunNo: | 24152 | | | | | |
| Prep Date: | 2/5/2015 | Analysis Date: | 2/6/2015 | SeqNo: | 712441 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| benzene | ND | 0.050 | | | | | | | | |
| toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 104 | 80 | 120 | | | |

| Sample ID | LCS-17580 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-----------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 17580 | RunNo: | 24152 | | | | | |
| Prep Date: | 2/5/2015 | Analysis Date: | 2/6/2015 | SeqNo: | 712442 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| benzene | 1.0 | 0.050 | 1.000 | 0 | 102 | 80 | 120 | | | |
| toluene | 0.96 | 0.050 | 1.000 | 0 | 95.7 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 101 | 80 | 120 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.000 | 0 | 102 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 111 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Client Name: **APEX AZTEC**

Work Order Number: **1502257**

RcptNo: **1**

Received by/date:

[Signature]

02/06/15

Logged By: **Lindsay Mangin**

2/6/2015 7:10:00 AM

[Signature]

Completed By: **Lindsay Mangin**

2/6/2015 7:32:53 AM

[Signature]

Reviewed By:

AK 02/06/15

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 | 1.6 | Good | Yes | | | |



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

February 13, 2015

Heather Woods

APEX TITAN

606 S. Rio Grande Unit A

Aztec, NM 87410

TEL: (505) 716-2787

FAX

RE: Enterprise San Juan 29-5 #214

OrderNo.: 1502361

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 5 sample(s) on 2/10/2015 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-3**Project:** Enterprise San Juan 29-5 #214**Collection Date:** 2/9/2015 1:38:00 PM**Lab ID:** 1502361-001**Matrix:** SOIL**Received Date:** 2/10/2015 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 12 | 9.9 | | mg/Kg | 1 | 2/10/2015 9:24:57 AM | 17655 |
| Surr: DNOP | 102 | 63.5-128 | | %REC | 1 | 2/10/2015 9:24:57 AM | 17655 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 3.3 | | mg/Kg | 1 | 2/10/2015 10:04:17 AM | R24212 |
| Surr: BFB | 91.0 | 80-120 | | %REC | 1 | 2/10/2015 10:04:17 AM | R24212 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.033 | | mg/Kg | 1 | 2/12/2015 1:25:30 PM | 17626 |
| Toluene | ND | 0.033 | | mg/Kg | 1 | 2/12/2015 1:25:30 PM | 17626 |
| Ethylbenzene | ND | 0.033 | | mg/Kg | 1 | 2/12/2015 1:25:30 PM | 17626 |
| Xylenes, Total | ND | 0.065 | | mg/Kg | 1 | 2/12/2015 1:25:30 PM | 17626 |
| Surr: 4-Bromofluorobenzene | 104 | 80-120 | | %REC | 1 | 2/12/2015 1:25:30 PM | 17626 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH Not In Range |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** APEX TITAN**Client Sample ID:** C-4**Project:** Enterprise San Juan 29-5 #214**Collection Date:** 2/9/2015 12:45:00 PM**Lab ID:** 1502361-002**Matrix:** SOIL**Received Date:** 2/10/2015 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 2/10/2015 9:52:01 AM | 17655 |
| Surr: DNOP | 106 | 63.5-128 | | %REC | 1 | 2/10/2015 9:52:01 AM | 17655 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 3.1 | | mg/Kg | 1 | 2/10/2015 10:33:02 AM | R24212 |
| Surr: BFB | 92.0 | 80-120 | | %REC | 1 | 2/10/2015 10:33:02 AM | R24212 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.031 | | mg/Kg | 1 | 2/12/2015 1:54:49 PM | 17626 |
| Toluene | ND | 0.031 | | mg/Kg | 1 | 2/12/2015 1:54:49 PM | 17626 |
| Ethylbenzene | ND | 0.031 | | mg/Kg | 1 | 2/12/2015 1:54:49 PM | 17626 |
| Xylenes, Total | ND | 0.061 | | mg/Kg | 1 | 2/12/2015 1:54:49 PM | 17626 |
| Surr: 4-Bromofluorobenzene | 88.3 | 80-120 | | %REC | 1 | 2/12/2015 1:54:49 PM | 17626 |

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 |
| | 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 |
| | O | RSD is greater than RSDlimit | P | Sample pH Not In Range |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: C-5

Project: Enterprise San Juan 29-5 #214

Collection Date: 2/9/2015 2:40:00 PM

Lab ID: 1502361-003

Matrix: SOIL

Received Date: 2/10/2015 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|--------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 2/10/2015 10:19:03 AM | 17655 |
| Surr: DNOP | 109 | 63.5-128 | | %REC | 1 | 2/10/2015 10:19:03 AM | 17655 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 2.6 | | mg/Kg | 1 | 2/10/2015 11:01:46 AM | R24212 |
| Surr: BFB | 91.5 | 80-120 | | %REC | 1 | 2/10/2015 11:01:46 AM | R24212 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.026 | | mg/Kg | 1 | 2/12/2015 2:24:04 PM | 17626 |
| Toluene | ND | 0.026 | | mg/Kg | 1 | 2/12/2015 2:24:04 PM | 17626 |
| Ethylbenzene | ND | 0.026 | | mg/Kg | 1 | 2/12/2015 2:24:04 PM | 17626 |
| Xylenes, Total | ND | 0.052 | | mg/Kg | 1 | 2/12/2015 2:24:04 PM | 17626 |
| Surr: 4-Bromofluorobenzene | 91.6 | 80-120 | | %REC | 1 | 2/12/2015 2:24:04 PM | 17626 |

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 | |
| | 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 | Page 3 of 8 |
| | O | RSD is greater than RSDlimit | P | Sample pH Not In Range | |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit | |
| | S | Spike Recovery outside accepted recovery limits | | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: C-6

Project: Enterprise San Juan 29-5 #214

Collection Date: 2/9/2015 1:35:00 PM

Lab ID: 1502361-004

Matrix: SOIL

Received Date: 2/10/2015 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 2/10/2015 10:45:54 AM | 17655 |
| Surr: DNOP | 102 | 63.5-128 | | %REC | 1 | 2/10/2015 10:45:54 AM | 17655 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 2.8 | | mg/Kg | 1 | 2/10/2015 11:30:30 AM | R24212 |
| Surr: BFB | 92.6 | 80-120 | | %REC | 1 | 2/10/2015 11:30:30 AM | R24212 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.033 | | mg/Kg | 1 | 2/12/2015 2:53:18 PM | 17626 |
| Toluene | ND | 0.033 | | mg/Kg | 1 | 2/12/2015 2:53:18 PM | 17626 |
| Ethylbenzene | ND | 0.033 | | mg/Kg | 1 | 2/12/2015 2:53:18 PM | 17626 |
| Xylenes, Total | ND | 0.055 | | mg/Kg | 1 | 2/12/2015 2:53:18 PM | 17626 |
| Surr: 4-Bromofluorobenzene | 81.4 | 80-120 | | %REC | 1 | 2/12/2015 2:53:18 PM | 17626 |

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 | |
| | 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 | Page 4 of 8 |
| | O | RSD is greater than RSDlimit | P | Sample pH Not In Range | |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit | |
| | S | Spike Recovery outside accepted recovery limits | | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: C-7

Project: Enterprise San Juan 29-5 #214

Collection Date: 2/9/2015 12:39:00 PM

Lab ID: 1502361-005

Matrix: SOIL

Received Date: 2/10/2015 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 13 | 9.9 | | mg/Kg | 1 | 2/10/2015 9:46:11 AM | 17655 |
| Surr: DNOP | 93.8 | 63.5-128 | | %REC | 1 | 2/10/2015 9:46:11 AM | 17655 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 3.0 | | mg/Kg | 1 | 2/10/2015 11:59:20 AM | R24212 |
| Surr: BFB | 91.4 | 80-120 | | %REC | 1 | 2/10/2015 11:59:20 AM | R24212 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.030 | | mg/Kg | 1 | 2/12/2015 3:22:32 PM | 17626 |
| Toluene | ND | 0.030 | | mg/Kg | 1 | 2/12/2015 3:22:32 PM | 17626 |
| Ethylbenzene | ND | 0.030 | | mg/Kg | 1 | 2/12/2015 3:22:32 PM | 17626 |
| Xylenes, Total | ND | 0.061 | | mg/Kg | 1 | 2/12/2015 3:22:32 PM | 17626 |
| Surr: 4-Bromofluorobenzene | 92.7 | 80-120 | | %REC | 1 | 2/12/2015 3:22:32 PM | 17626 |

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 |
| 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 |
| O | RSD is greater than RSDlimit | P | Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

QC SUMMARY REPORT

WO#: 1502361

Hall Environmental Analysis Laboratory, Inc.

13-Feb-15

Client: APEX TITAN
Project: Enterprise San Juan 29-5 #214

| | | | | | | | | | | |
|-----------------------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | MB-17655 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 17655 | RunNo: | 24202 | | | | | |
| Prep Date: | 2/10/2015 | Analysis Date: | 2/10/2015 | SeqNo: | 713456 | 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 | 8.5 | | 10.00 | | 84.6 | 63.5 | 128 | | | |

| | | | | | | | | | | |
|-----------------------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | LCS-17655 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 17655 | RunNo: | 24202 | | | | | |
| Prep Date: | 2/10/2015 | Analysis Date: | 2/10/2015 | SeqNo: | 713458 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 50 | 10 | 50.00 | 0 | 100 | 67.8 | 130 | | | |
| Surr: DNOP | 4.0 | | 5.000 | | 80.8 | 63.5 | 128 | | | |

| | | | | | | | | | | |
|-----------------------------|----------------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | 1502361-001AMS | SampType: | MS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | C-3 | Batch ID: | 17655 | RunNo: | 24202 | | | | | |
| Prep Date: | 2/10/2015 | Analysis Date: | 2/10/2015 | SeqNo: | 713552 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 51 | 9.9 | 49.31 | 11.94 | 79.4 | 29.2 | 176 | | | |
| Surr: DNOP | 4.8 | | 4.931 | | 97.7 | 63.5 | 128 | | | |

| | | | | | | | | | | |
|-----------------------------|-----------------|----------------|-----------|-------------|---|----------|-----------|-------|----------|------|
| Sample ID | 1502361-001AMSD | SampType: | MSD | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | C-3 | Batch ID: | 17655 | RunNo: | 24202 | | | | | |
| Prep Date: | 2/10/2015 | Analysis Date: | 2/10/2015 | SeqNo: | 713633 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 51 | 9.9 | 49.41 | 11.94 | 79.6 | 29.2 | 176 | 0.288 | 23 | |
| Surr: DNOP | 4.8 | | 4.941 | | 97.7 | 63.5 | 128 | 0 | 0 | |

| | | | | | | | | | | |
|------------|----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | MB-17621 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 17621 | RunNo: | 24202 | | | | | |
| Prep Date: | 2/9/2015 | Analysis Date: | 2/10/2015 | SeqNo: | 713699 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 9.4 | | 10.00 | | 93.7 | 63.5 | 128 | | | |

| | | | | | | | | | | |
|------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | LCS-17621 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 17621 | RunNo: | 24202 | | | | | |
| Prep Date: | 2/9/2015 | Analysis Date: | 2/10/2015 | SeqNo: | 713700 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.4 | | 5.000 | | 88.3 | 63.5 | 128 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Full Environmental Analysis Laboratory, Inc.

WO#: 1502361

13-Feb-15

Client: APEX TITAN
Project: Enterprise San Juan 29-5 #214

| | | | | | | | | | | |
|-------------------------------|---------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | 5ML RB | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | R24212 | RunNo: | 24212 | | | | | |
| Prep Date: | | Analysis Date: | 2/10/2015 | SeqNo: | 714075 | 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 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|----------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | 2.5UG GRO LCS | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | R24212 | RunNo: | 24212 | | | | | |
| Prep Date: | | Analysis Date: | 2/10/2015 | SeqNo: | 714076 | 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 | 95.9 | 64 | 130 | | | |
| Surr: BFB | 980 | | 1000 | | 98.1 | 80 | 120 | | | |

| | | | | | | | | | | |
|------------|-----------------|----------------|------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | MB-17626 | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 17626 | RunNo: | 24212 | | | | | |
| Prep Date: | 2/9/2015 | Analysis Date: | 2/10/2015 | SeqNo: | 714085 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 880 | | 1000 | | 87.8 | 80 | 120 | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | LCS-17626 | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 17626 | RunNo: | 24212 | | | | | |
| Prep Date: | 2/9/2015 | Analysis Date: | 2/10/2015 | SeqNo: | 714086 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 990 | | 1000 | | 99.1 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1502361

13-Feb-15

Client: APEX TITAN
Project: Enterprise San Juan 29-5 #214

| Sample ID | MB-17626 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|----------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Client ID: | PBS | Batch ID: | 17626 | RunNo: | 24279 | | | | | |
| Prep Date: | 2/9/2015 | Analysis Date: | 2/12/2015 | SeqNo: | 715392 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| benzene | ND | 0.050 | | | | | | | | |
| toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.95 | | 1.000 | | 95.0 | 80 | 120 | | | |

| Sample ID | LCS-17626 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-----------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 17626 | RunNo: | 24279 | | | | | |
| Prep Date: | 2/9/2015 | Analysis Date: | 2/12/2015 | SeqNo: | 715393 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| benzene | 1.1 | 0.050 | 1.000 | 0 | 111 | 80 | 120 | | | |
| toluene | 1.1 | 0.050 | 1.000 | 0 | 107 | 80 | 120 | | | |
| Ethylbenzene | 1.1 | 0.050 | 1.000 | 0 | 106 | 80 | 120 | | | |
| Xylenes, Total | 3.2 | 0.10 | 3.000 | 0 | 107 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.2 | | 1.000 | | 121 | 80 | 120 | | | S |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: **APEX AZTEC**

Work Order Number: **1502361**

RcptNo: **1**

Received by/date: AT 02/10/15

Logged By: **Anne Thorne** 2/10/2015 7:00:00 AM *Anne Thorne*
 Completed By: **Anne Thorne** 2/10/2015 *Anne Thorne*
 Reviewed By: *A* *[Signature]* 02/10/15

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
 (Note discrepancies on chain of custody)
- 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? Yes No
 (If no, notify customer for authorization.)

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 | 1.0 | Good | Yes | | | |

APEX
Office Location Aztec, NM

Laboratory: Hall Environmental
Address: Albuquerque, NM
Contact: Andy Freeman
Phone: _____
PO/SO #: Direct bill to Enterprise

ANALYSIS
REQUESTED

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

Project Manager Heather Woods

Sampler's Name: Heather Woods / Renee Duchilly Sampler's Signature: Heather Woods / Renee Duchilly

Proj. No. 7250415003 Project Name Enterprise San Juan 29-5 # 214 No/Type of Containers 4oz Jar / MUDH Kit

| Matrix | Date | Time | Comp | Bar | Identifying Marks of Sample(s) | Start Depth | End Depth | VOA | A/G 1L | 250 ml | Glass Jar | P/O | Lab Sample ID (Lab Use Only) | |
|--------------------|---------|------|------|-----|--------------------------------|-------------|-----------|-----|--------|--------|-----------|-----|------------------------------|--------------|
| S | 2/19/15 | 1338 | | | C-3 | | | | | | 1 | 1 | X X | 15023161-001 |
| S | 2/19/15 | 1245 | | | C-4 | | | | | | 1 | 1 | X X | -002 |
| S | 2/19/15 | 1440 | | | C-5 | | | | | | 1 | 1 | X X | -003 |
| S | 2/19/15 | 1335 | | | C-6 | | | | | | 1 | 1 | X X | -004 |
| S | 2/19/15 | 1239 | | | C-7 | | | | | | 1 | 1 | X X | -005 |
| NTS HW2 | | | | | | | | | | | | | | |

8021 BTEX
B015 TPH GAO/DOD

1.0

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

| | | | |
|--|--|--|---|
| Relinquished by (Signature): <u>Heather M. Woods</u> | Date: <u>2/19/15</u> Time: <u>1736</u> | Received by (Signature): <u>Myrtle White</u> | Date: <u>2/19/15</u> Time: <u>1736</u> |
| Relinquished by (Signature): <u>Myrtle White</u> | Date: <u>2/19/15</u> Time: <u>1751</u> | Received by (Signature): <u>Chris Brown</u> | Date: <u>02/10/15</u> Time: <u>0700</u> |
| Relinquished by (Signature): _____ | Date: _____ Time: _____ | Received by (Signature): _____ | Date: _____ Time: _____ |
| Relinquished by (Signature): _____ | Date: _____ Time: _____ | Received by (Signature): _____ | Date: _____ Time: _____ |

NOTES: Bill to Enterprise Field Services
Attn: Tom Long
WO#: 1047676
Paykey: RB21200
Area Supervisor: Keith Roddy

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 MUDH Kit