

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

GRIZZLE #7

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

|   |  |                                   |  |  |                                       |
|---|--|-----------------------------------|--|--|---------------------------------------|
| Name of Company <u>VANGUARD PERMIAN</u>           |  | OPERATOR <u>RUSSELL HASSELOFF</u> |  | <input checked="" type="checkbox"/> Initial Report | <input type="checkbox"/> Final Report |
| Address <u>1209 S MAIN LIVINGSTON NM</u>          |  | Contact <u>RUSSELL HASSELOFF</u>  |  |  |                                       |
| Facility Name <u>GRIZZLE #7 007 JURL 10103113</u> |  | Telephone No. <u>361-244-3707</u> |  |  |                                       |
|   |  | Facility Type <u>oil well</u>     |  |  |                                       |
| Surface Owner                                     |  | Mineral Owner                     |  | API No. <u>30-025-37611</u>                        |                                       |

LOCATION OF RELEASE

| Unit Letter | Section  | Township    | Range       | Feet from the | North/South Line | Feet from the | East/West Line | County     |
|-------------|----------|-------------|-------------|---------------|------------------|---------------|----------------|------------|
| <u>G</u>    | <u>8</u> | <u>22-S</u> | <u>37-E</u> | <u>2310</u>   | <u>RNL</u>       | <u>2310</u>   | <u>FEL</u>     | <u>LCA</u> |

JURL  
10103113

Latitude N 32° 24' 30.00" Longitude W 103° 10' 48.66"

NATURE OF RELEASE

|  |   |  |
|--|---|--|
| Type of Release <u>FLOW LINE BLOW OUT / OIL</u>  | Volume of Release <u>10 BBL</u>           | Volume Recovered <u>10 BBL</u>                     |
| Source of Release <u>JURL 10103113</u>   | Date and Hour of Occurrence               | Date and Hour of Discovery <u>10-1-13 11:00 AM</u> |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?                          |  |
| By Whom?   | Date and Hour                             |  |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | If YES, Volume Impacting the Watercourse. |  |

If a Watercourse was Impacted, Describe Fully.\*

DTW = 71' JURL 10103113

Describe Cause of Problem and Remedial Action Taken.\*

FLOW LINE RUPTURE CAUSED SPRAY AND LOSS OF 10 BBL CRUDE OIL.  
VACUUM TRUCK CALLED UPON DISCOVERY AND APPROXIMATE 10 BBL PICKED UP  
BACK HOE CALLED TO COVER REMAINING SPILLAGE

Describe Area Affected and Cleanup Action Taken.\*

30' x 50' AREA AT BACK OF GATHERING SITE. OIL PICKED UP AND THEN  
COVERED GROUND WITH NEW FILL DIRT. WILL REMOVE DIRT + BRING NEW  
DIRT.

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

|  |  |                                   |
|--|--|-----------------------------------|
| Signature: <u>RUSSELL HASSELOFF</u>          | OIL CONSERVATION DIVISION<br><u>Subbing Jeremy</u><br>Environmental Specialist |                                   |
| Printed Name: <u>RUSSELL HASSELOFF</u>       | Approved by Environmental Specialist   |                                   |
| Title: <u>LEASE OPERATOR</u>                 | Approval Date: <u>10/03/13</u>   | Expiration Date: <u>12/03/13</u>  |
| E-mail Address: <u>RHASSELOFF@VNRLLC.COM</u> | Conditions of Approval: <u>DELINEATES &amp; REMEDIATE TO OGD RRALS.</u>        | Attached <input type="checkbox"/> |
| Date: <u>10-1-13</u>                         | Phone: <u>361-244-3707</u>   | IRP-10-13-2965                    |

\* Attach Additional Sheets If Necessary

SUBMIT FINAL C-141  
BY 12/03/13.

PERSONAL FILE COPY



District I  
1623 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
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1000 Rio Bravo Road, Artesia, NM 87410  
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State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
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GRIZZLY #7

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

|  |  |   |  |
|--|--|---|--|
| Name of Company <b>VANGUARD PUGHAN</b>   |  | OPERATOR <input checked="" type="checkbox"/> Initial Report <input type="checkbox"/> Final Report |  |
| Address <b>1209 S MAIN LIVINGSTON NM</b> |  | Contact <b>RUSSELL HASSLOFF</b>   |  |
| Facility Name <b>GRIZZLY</b>             |  | Telephone No. <b>361-244-5707</b>   |  |
| Surface Owner                            |  | Facility Type <b>OIL WELL</b>   |  |
| Mineral Owner                            |  | API No. <b>30-025-3761</b>  |  |

### LOCATION OF RELEASE

| Unit Letter | Section  | Township    | Range       | Feet from the | North/South Line | Feet from the | East/West Line | County     |
|-------------|----------|-------------|-------------|---------------|------------------|---------------|----------------|------------|
|             | <b>8</b> | <b>22-S</b> | <b>37-E</b> | <b>2310</b>   | <b>FNL</b>       | <b>2310</b>   | <b>FEL</b>     | <b>LEA</b> |

Latitude **N32°24'30.00" longitude W103°10'46"**

### NATURE OF RELEASE

|   |  |  |
|---|--|--|
| Type of Release <b>FLOW LINE BLOWOUT</b>  | Volume of Release <b>10 BBL</b>          | Volume Recovered <b>0 BBL</b>                      |
| Season of Release   | Date and Hour of Occurrence              | Date and Hour of Discovery <b>10-1-13 10:00 AM</b> |
| Was Immediate Notice Given?   | If YES, To Whom?                         |  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required |  |  |
| By Whom?  | Date and Hour                            |  |
| Was a Watercourse Reached?  | If YES, Volume Impacting the Watercourse |  |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                       |  |  |

If a Watercourse was Impacted, Describe Fully \*

Describe Cause of Problem and Remedial Action Taken \*  
**FLOW LINE RUPTURE CAUSED SPRAY AND LOSS OF 10 BBL CRUDE OIL. VACUUM TRUCK CALLED UPON DISCOVERY AND APPROXIMATE 10 BBL PICKED UP. BACK HOE CALLED TO COVER REMAINING SPILLAGE**

Describe Area Affected and Cleanup Action Taken \*  
**30 X 50' AREA AT BACK OF GATHERING SITE. OIL PICKED UP AND THEN QUERLED GROUND WITH NEW FILL DIRT. WILL REMOVE DIRT + BRING NEW DIRT.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understood that pursuant to NMAC 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 NMOCED 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, NMOCED 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: <b>[Signature]</b>                   |  | OIL CONSERVATION DIVISION             |                                   |
| Printed Name: <b>RUSSELL HASSLOFF</b>           |  | Approved by Environmental Specialist: |                                   |
| Title: <b>LEASE OPERATOR</b>                    |  | Approval Date:                        | Expiration Date:                  |
| E-mail Address: <b>RHASSLOFF@VNRILL.COM</b>     |  | Conditions of Approval:               | Attached <input type="checkbox"/> |
| Date: <b>10-1-13</b> Phone: <b>361-244-5707</b> |  |                                       |                                   |

\* Attach Additional Sheets if Necessary

# **Vanguard Permian Grizzell B # 7 Work Plan**

**Section 8, T22S, R37E  
Lea County, New Mexico**

**November 11, 2013**



**Prepared for:**

**Vanguard Permian  
1209 S Main Avenue  
Lovington, New Mexico 88260**

**By:**

**Safety & Environmental Solutions, Inc.  
703 East Clinton Street  
Hobbs, New Mexico 88240  
(575) 397-0510**

*Reviewed w/ comments*

*Jeffrey Sekim*

Environmental Specialist

NMOC-DIST 1

11/14/13



## I. Company Contacts

| Representative | Company  | Telephone    | E-mail             |
|----------------|----------|--------------|--------------------|
| Mike Jones     | Vanguard | 575-390-4611 | mjones@vnrlc.com   |
| Bob Allen      | SESI     | 575-397-0510 | ballen@sesi-nm.com |

## II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by Vanguard Permian Company to perform site assessment of a release area at the Grizzell B #7 located in Section 8 of Township 22 South, Range 37 East, Lea County, New Mexico.

According to the C-141 dated October 1, 2013, the cause of the release was due to a flow line blowout. New Mexico Oil Conservation Division (NMOCD) was contacted on October 1, 2013.

## III. Surface and Ground Water

The nearest groundwater of record is approximately 2,604 feet south east of the site. The New Mexico Office of State Engineer record is in Section 9 Range 37 East and Township 22 South. The reported depth was 94 feet below ground surface (BGS).

## IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCD (August 13, 1993). Based on the ranking criteria presented below, the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 5,000 ppm Total Petroleum Hydrocarbons (TPH).

| Depth to Ground Water:   |                       |           |   |
|--|-----------------------|-----------|---|
| (Vertical distance from contaminants to seasonal high water elevation of groundwater)                          | Less than 50 feet     | 20 points |   |
|  | 50 feet to 99 feet    | 10 points |   |
|  | >100 feet             | 0 points  | X |
| Wellhead Protection Area:  |                       |           |   |
| (Less than 200 feet from a private domestic water source; or less than 1000 feet from all other water sources) | Yes                   | 20 points |   |
|  | No                    | 0 points  | X |
| Distance to Surface Water:   |                       |           |   |
| (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)        | Less than 200 feet    | 20 points |   |
|  | 200 feet to 1000 feet | 10 points |   |
|  | >1000 feet            | 0 points  | X |
| RANKING SCORE (TOTAL POINTS)   |                       |           | 0 |

## V. Work Performed

On October 22, 2012, SESI was onsite with Bryan's Oilfield Services and installed 6 test trenches to determine vertical extent of contamination. Samples were retrieved at a depth of 3 feet below ground surface (bgs). Samples were retrieved, properly packaged



and transported under chain of custody to Cardinal Laboratories in Hobbs, New Mexico. The results of the analysis are as follows:

| Sample<br>Date:<br>10/22/2013 | CI-<br>(mg/kg) | TPH               |                     | Benzene<br>(mg/kg) | Toluene<br>(mg/kg) | Ethyl<br>Benzene<br>(mg/kg) | Total<br>Xylenes<br>(mg/kg) | Total<br>BTEX<br>(mg/kg) |
|-------------------------------|----------------|-------------------|---------------------|--------------------|--------------------|-----------------------------|-----------------------------|--------------------------|
|                               |                | GRO<br>C6-<br>C10 | DRO><br>C10-<br>C28 |                    |                    |                             |                             |                          |
| TT-1, 3 ft                    | 32.0           | <10.0             | <10.0               | <0.050             | <0.050             | <0.050                      | <0.150                      | <0.300                   |
| TT-2, 3 ft                    | 384            | <10.0             | <10.0               | <0.050             | <0.050             | <0.050                      | <0.150                      | <0.300                   |
| TT-3, 3 ft                    | 688            | <10.0             | <10.0               | <0.050             | <0.050             | <0.050                      | <0.150                      | <0.300                   |
| TT-4, 3 ft                    | 368            | <10.0             | <10.0               | <0.050             | <0.050             | <0.050                      | <0.150                      | <0.300                   |
| TT-5, 3 ft                    | 176            | <10.0             | 16.7                | <0.050             | <0.050             | <0.050                      | <0.150                      | <0.300                   |
| TT-6, 3 ft                    | <16.0          | 394               | 7190                | <0.250             | <0.500             | <0.500                      | <1.50                       | <2.75                    |

#### VI. Action Plan

Due to the depth to groundwater in the vicinity of this site, Vanguard Natural Resources, LLC proposes that the affected area be excavated to a depth of 5,000 ppm TPH. The area will then be backfilled with grade like soils and contoured to match the surrounding area. The excavated soils will be transported to a New Mexico Oil Conservation Division (NMOCD) approved facility for disposal.

#### VII. Figures & Appendices

Figure 1 – Vicinity Map  
Figure 2 – Site Plan  
Appendix A – Analytical Results  
Appendix B – C-141









VAN-13-001 Grizzell B #7





PHONE (575) 393-2326 • 181 E. MARLAND • HOBBS, NM 88240

October 28, 2013

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: VANGUARD

Enclosed are the results of analyses for samples received by the laboratory on 10/22/13 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab/accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab/accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Halocetic Acids (HAA-5)      |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3)  |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Caley D. Keene".

Caley D. Keene

Lab Director/Quality Manager





PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

Safety & Environmental Solutions  
Bob Allen  
703 East Clinton  
Hobbs NM, 88240  
Fax To: (575) 393-4388

Received: 10/22/2013  
Reported: 10/28/2013  
Project Name: VANGUARD  
Project Number: VAN-13-001  
Project Location: NOT GIVEN

Sampling Date: 10/22/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: TT-1 3' (H302555-01)**

| BTEX 80218     |        | mg/kg           |            | Analyzed By: MS |      |            |               |        |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/24/2013 | ND              | 2.05 | 103        | 2.00          | 0.398  |           |
| Toluene*       | <0.050 | 0.050           | 10/24/2013 | ND              | 2.14 | 107        | 2.00          | 0.0304 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/24/2013 | ND              | 2.17 | 108        | 2.00          | 0.263  |           |
| Total Xylenes* | <0.150 | 0.150           | 10/24/2013 | ND              | 6.35 | 109        | 6.00          | 1.37   |           |
| Total BTEX     | <0.300 | 0.300           | 10/24/2013 | ND              |      |            |               |        |           |

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 89.4-126

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 32.0   | 16.0            | 10/23/2013 | ND              | 400 | 100        | 400           | 0.00 |           |  |

| TPH 8015H    | mg/kg  |                 | Analyzed By: MS |              |     |            |               |      |           |
|--------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 10/23/2013      | ND           | 180 | 90.0       | 200           | 2.46 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 10/23/2013      | ND           | 175 | 87.4       | 200           | 1.75 |           |

Surrogate: 1-Chlorooctane 73.6 % 63.2-140

Surrogate: 1-Chlorodecane 81.3 % 63.6-154

Cardinal Laboratories

\*Accredited Analyte

WARNING: Solvents and Surrogates. Cardinal's safety and health notices appear for any item which is listed in this table or listed in the manual used by client for analysis. All items include their respective MSDS and other safety information such as hazard labels, hazard statements, list of use, or list of uses approved for use. In addition, all items are listed in the manual used by client for analysis. In the event that Cardinal is made the recipient of a hazardous or contaminated sample, including, without limitation, chemical waste, list of use, or list of uses approved for use, in substance, release or hazardous waste use of or related to the performance of the services provided by Cardinal, regardless of whether such data is based upon any of the above listed sources or otherwise, Cardinal shall only be the source of the above information. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celest D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 \* 101 E. MARLAND \* HOBBS, NM 88240

**Analytical Results For:**

Safety & Environmental Solutions  
Bob Allen  
703 East Clinton  
Hobbs NM, 88240  
Fax To: (575) 393-4388

Received: 10/22/2013  
Reported: 10/28/2013  
Project Name: VANGUARD  
Project Number: VAN-13-001  
Project Location: NOT GIVEN

Sampling Date: 10/22/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Josh Hanson

**Sample ID: TT-2 3' (H302555-02)**

| STEX 00218     |        | mg/kg           |            | Analyzed By: MS |      |            |               |        |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/24/2013 | ND              | 2.05 | 103        | 2.00          | 0.398  |           |
| Toluene*       | <0.050 | 0.050           | 10/24/2013 | ND              | 2.14 | 107        | 2.00          | 0.0304 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/24/2013 | ND              | 2.17 | 108        | 2.00          | 0.263  |           |
| Total Xylenes* | <0.150 | 0.150           | 10/24/2013 | ND              | 6.35 | 109        | 6.00          | 1.57   |           |
| Total BTEX     | <0.300 | 0.300           | 10/24/2013 | ND              |      |            |               |        |           |

Surrogate: 4-Bromofluorobenzene (PIZ) 103 % 89.4-126

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 384    | 16.0            | 10/23/2013 | ND              | 400 | 100        | 400           | 0.00 |           |

| TPH 8015H    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPO  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 10/24/2013 | ND              | 180 | 90.0       | 200           | 2.46 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 10/24/2013 | ND              | 175 | 87.4       | 200           | 1.75 |           |

Surrogate: 1-Chlorooctane 85.4 % 65.2-140

Surrogate: 1-Chlorodecane 92.7 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

PLEASE NOTE: Results are for samples. Cardinal's liability and client's exclusive remedy for any claim arising, whether stated or not, shall be limited to the amount paid for these analyses. All claims, including those for negligence and any other cause whatsoever shall be limited without regard to setting and reported by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for tortious or consequential damages, including without limitation, losses of sales, or loss of profits incurred by client, for negligence, efficiency or performance arising out of or related to the performance of the services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated causes of action. Results relate only to the samples identified above. This report shall not be reproduced except in full and without approval of Cardinal Laboratories.

Caley D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

Safety & Environmental Solutions  
Bob Allen  
703 East Clinton  
Hobbs NM, 88240  
Fax To: (575) 393-4388

Received: 10/22/2013  
Reported: 10/28/2013  
Project Name: VANGUARD  
Project Number: VAN-13-001  
Project Location: NOT GIVEN

Sampling Date: 10/22/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: TT-3 3' (H302555-03)**

| BTEX 80218     |        | mg/kg           |            | Analyzed By: MS |      |            |               |        |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/24/2013 | ND              | 2.05 | 103        | 2.00          | 0.398  |           |
| Toluene*       | <0.050 | 0.050           | 10/24/2013 | ND              | 2.14 | 107        | 2.00          | 0.0304 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/24/2013 | ND              | 2.17 | 108        | 2.00          | 0.263  |           |
| Total Xylenes* | <0.150 | 0.150           | 10/24/2013 | ND              | 6.55 | 109        | 6.00          | 1.57   |           |
| Total BTEX     | <0.300 | 0.300           | 10/24/2013 | ND              |      |            |               |        |           |

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 89.4-126

| Chloride, SM4500C-8 |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|---------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte             | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride            | 688    | 16.0            | 10/23/2013 | ND              | 400 | 100        | 400           | 0.00 |           |
| TPH 8015M           |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |

| TPH 8015H    | mg/kg  |                 | Analyzed By: MS |              |     |            |               |      |           |
|--------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C5-C10   | <10.0  | 10.0            | 10/24/2013      | ND           | 180 | 90.0       | 200           | 2.46 |           |
| GRO >C10-C28 | <10.0  | 10.0            | 10/24/2013      | ND           | 175 | 87.4       | 200           | 1.75 |           |

Surrogate: 1-Chlorooctane 85.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.9 % 63.6-134

**Cardinal Laboratories**

\*Accredited Analyte

PLEASE NOTE: Limits and Surrogate. Cardinal's facility and clients maintain records for dry data testing, whether tested in duplicate or not, shall be limited to the amount paid for that analysis. All data, including those for surrogate and any other data submitted shall be deemed correct unless noted in writing and received by Cardinal within sixty (60) days after completion of the applicable service. In no event shall Cardinal be held liable for incidents or consequential damages, including, without limitation, business interruptions, loss of data, or loss of profits incurred by clients, for any reason, whether or not such damages are caused in whole or in part by the performance of the service provided by Cardinal, regardless of whether such claim is brought under any of the above stated terms or otherwise. Results reflect only the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Coley D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 \* 181 E. MARLAND \* HOBBS, NM 88240

**Analytical Results For:**

Safety & Environmental Solutions  
Bob Allen  
703 East Clinton  
Hobbs NM, 88240  
Fax To: (575) 393-4388

Received: 10/22/2013  
Reported: 10/28/2013  
Project Name: VANGUARD  
Project Number: VAN-13-001  
Project Location: NOT GIVEN

Sampling Date: 10/22/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: TT-4 3' (H302555-04)**

| BTEX 90218     |        | mg/kg           |            | Analyzed By: MS |      |            |               |        |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/24/2013 | ND              | 2.05 | 103        | 2.00          | 0.398  |           |  |
| Toluene*       | <0.050 | 0.050           | 10/24/2013 | ND              | 2.14 | 107        | 2.00          | 0.0304 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/24/2013 | ND              | 2.17 | 108        | 2.00          | 0.263  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/24/2013 | ND              | 6.35 | 109        | 6.00          | 1.57   |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/24/2013 | ND              |      |            |               |        |           |  |

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 89.4-126

| Chloride, SM4500C-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|---------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte             | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride            | 366    | 15.0            | 10/23/2013 | ND              | 400 | 100        | 400           | 9.00 |           |

| TPH 8015M    | mg/kg  |                 | Analyzed By: MS |              |     |            |               |      |           |
|--------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 10/24/2013      | ND           | 180 | 90.0       | 200           | 2.46 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 10/24/2013      | ND           | 175 | 87.4       | 200           | 1.75 |           |

Surrogate: 1-Chlorooctane 84.8 % 65.2-140

Surrogate: 1-Chlorodecane 92.7 % 63.6-134

**Cardinal Laboratories**

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Celery D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

 Received: 10/22/2013  
 Reported: 10/28/2013  
 Project Name: VANGUARD  
 Project Number: VAN-13-001  
 Project Location: NOT GIVEN

 Sampling Date: 10/22/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: TT-5 3' (H302555-05)**

| BTEX 00218     |        | mg/kg           |            | Analyzed By: MS |      |            |               |        |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/24/2013 | ND              | 2.05 | 103        | 2.00          | 0.398  |           |
| Toluene*       | <0.050 | 0.050           | 10/24/2013 | ND              | 2.14 | 107        | 2.00          | 0.0304 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/24/2013 | ND              | 2.17 | 108        | 2.00          | 0.263  |           |
| Total Xylenes* | <0.150 | 0.150           | 10/24/2013 | ND              | 6.55 | 109        | 6.00          | 1.57   |           |
| Total BTEX     | <0.300 | 0.300           | 10/24/2013 | ND              |      |            |               |        |           |

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 89.4-126

| Chloride, SM4580C-8 |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|---------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte             | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride            | 176    | 16.0            | 10/23/2013 | ND              | 400 | 100        | 400           | 0.00 |           |

| TPH 8015H    | mg/kg  |                 | Analyzed By: MS |              |     |            |               |      |           |
|--------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 10/24/2013      | ND           | 180 | 90.0       | 200           | 2.46 |           |
| DRO >C10-C28 | 16.7   | 10.0            | 10/24/2013      | ND           | 175 | 87.4       | 200           | 1.75 |           |

Surrogate: 1-Chlorooctane 91.3 % 63.2-140

Surrogate: 1-Chlorooctadecane 102 % 83.6-134

**Cardinal Laboratories**

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 • 101 E. HAWLAND • HOBBS, NM 88240

**Analytical Results For:**

Safety & Environmental Solutions  
Bob Allen  
703 East Clinton  
Hobbs NM, 88240  
Fax To: (575) 393-4388

Received: 10/22/2013  
Reported: 10/28/2013  
Project Name: VANGUARD  
Project Number: VAN-13-001  
Project Location: NOT GIVEN

Sampling Date: 10/22/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

Sample ID: TT-6 3' (H302555-06)

| STEX 80218     |        | mg/kg           |            | Analyzed By: MS |      |            |               |        |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*       | <0.250 | 0.250           | 10/24/2013 | ND              | 2.05 | 103        | 2.00          | 0.398  |           |
| Toluene*       | <0.500 | 0.500           | 10/24/2013 | ND              | 2.14 | 107        | 2.00          | 0.0304 |           |
| Ethylbenzene*  | <0.500 | 0.500           | 10/24/2013 | ND              | 2.17 | 108        | 2.00          | 0.263  |           |
| Total Xylenes* | <1.50  | 1.50            | 10/24/2013 | ND              | 6.55 | 109        | 6.00          | 1.57   |           |
| Total STEX     | <2.75  | 2.75            | 10/24/2013 | ND              |      |            |               |        |           |

|                                       |        |                 |            |                 |     |            |               |      |           |  |
|---------------------------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Surrogate: 4-Bromofluorobenzene (PIL) |        | 163 %           | 89.4-126   |                 |     |            |               |      |           |  |
| Chloride, SM4300C-B                   |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |  |
| Analyte                               | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride                              | <16.0  | 16.0            | 10/23/2013 | ND              | 400 | 100        | 400           | 0.00 |           |  |
| TPH 8015M                             |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|                                       |        |                 |            | S-66            |     |            |               |      |           |  |

| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
|--------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| GRD C6-C10   | 394    | 100             | 10/23/2013 | ND           | 180 | 90.0       | 200           | 2.46 |           |
| GRD >C10-C28 | 7190   | 100             | 10/23/2013 | ND           | 175 | 87.4       | 200           | 1.75 |           |

Surrogate: 1-Chlorooctane 75.7 % 65.3-140

Surrogate: 1-Chlorooctadecane 598 % 63.6-154

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NOTES: Liability and Coverage. Cardinal's liability and coverage is limited to the detection of contamination only. It does not include the cost of removal or remediation of contamination. Cardinal's liability and coverage is limited to the detection of contamination only. It does not include the cost of removal or remediation of contamination. Cardinal's liability and coverage is limited to the detection of contamination only. It does not include the cost of removal or remediation of contamination.

Caley D. Keene, Lab Director/Quality Manager

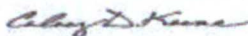
**Notes and Definitions**

|      |   |
|------|---|
| S-06 | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.          |
| ND   | Analyte NOT DETECTED at or above the reporting limit.   |
| RPD  | Relative Percent Difference   |
| **   | Samples not received at proper temperature of 5°C or below.   |
| ***  | Insufficient time to reach temperature.   |
| -    | Chloride by SM4500C-B does not require samples be received at or below 5°C.<br>Samples reported on an as received basis (wet) unless otherwise noted on report. |

**Cardinal Laboratories**

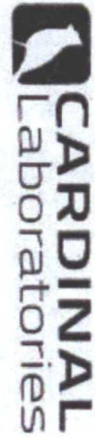
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Celine D. Keene, Lab Director/Quality Manager





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(505) 383-2336 FAX (505) 383-2478

|   |  |                |  |                  |  |
|---|--|----------------|--|------------------|--|
| Company Name: <b>Safety &amp; Environmental Solutions</b> |  | P.O. #         |  | BILL TO          |  |
| Project Manager: <b>David Davis</b>                       |  | Company:       |  | ANALYSIS REQUEST |  |
| Address:  |  | City:          |  | State:           |  |
| City:   |  | State:         |  | Zip:             |  |
| Phone #:  |  | Fax #:         |  | Address:         |  |
| Project #:  |  | Project Owner: |  | City:            |  |
| Project Name:   |  | State:         |  | Zip:             |  |
| Project Location:   |  | Phone #:       |  | Fax #:           |  |
| Sample Name: <b>David Davis</b>                           |  | PRESERVATION   |  | SAMPLING         |  |
| Reference #:  |  | DATE           |  | TIME             |  |
| Lab I.D. <b>H302555</b>                                   |  | Sample I.D.    |  | DATE             |  |
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