ENVIRONMENTAL PLUS, INC.

2100 Ave 'O' P.O. Box 1558 Eunice, NM 88231 ddominguezepi@gmail.com Office: (575) 394-3481

Fax: (575) 394-2601



APPROVED

By Olivia Yu at 11:35 am, Jun 28, 2017

Final Closure Report

NMOCD grants closure to 1RP-4450.

Vanguard Operating, LLC
Hill Tank Battery
Lea County, New Mexico
Unit Letter "B", Section 4, Township 21 South, Range 37 East
Latitude 32.513168 North, Longitude 103.165092 West
NMOCD Reference #1RP-4450

Prepared For:

Vanguard Operating, LLC 4001 Penbrook, Suite 201 Odessa, Texas 79762

Prepared By:

Environmental Plus, Inc. 2100 Ave 'O' Eunice, NM 88231

May 2017

Daniel Dominguez Project Manager The following *Final Closure Report* serves as a condensed update on field activities undertaken for the afore referenced Site.

Background:

The site is located in Unit Letter B (SE ¼ SE ¼), Section 4, Township 21 South, Range 37 East, approximately six north of Eunice, in Lea County, New Mexico.

The release site is located at an active tank battery; latitude 32.513168 North, longitude 103.165092 West. Area Map, Site Location Map, and Sample/Site Map are included as Figure 1, Figure 2, and Figure 3, respectively. The Initial NMOCD Form C-141 indicates that on September 16, 2016 lightning struck the tank battery causing a fire which damaged all the tanks on site. Produced water and oil remained inside of the lined containment. Wells were shut in until weather permits repairs. Approximately 115 barrels of oil and water were released to containment. A vacuum truck was utilized to recover approximately 115 barrels of fluid, resulting in a net loss of zero barrels. A small area outside containment to the south of battery was found that had been affected by the release and fire. The visually affected areas total approximately 8,000 square feet. The Initial NMOCD Form C-141 is included as Attachment V.

EPI was contracted by Vanguard to remediate the small area outside of containment to the south of the tank battery. Two different companies, Collier Backhoe Service and Balderama, were contracted to remove and replace the contaminated soil, damaged process equipment, liner, and tanks. This work was completed before EPI personnel arrived on location to begin delineation work on the area to the south of the tank battery.

NMOCD Site Classification:

A search for water wells was completed utilizing the New Mexico Office of the State Engineer's (NMOSE) website. There are four wells located in the area surrounding the release site (reference *Table 1*). Also, no wells (domestic, agriculture or public) and no bodies of surface water exist within a 1,000-foot radius of the release site (reference *Figure 2*). The NMOSE database indicates average water depth is approximately 75 feet bgs within a 2,000-meter radius, however, the Chevron Trend Map (2005) indicates average water depth is approximately 25 feet bgs within the immediate area of the tank battery (reference *Table 1*, and *Attachment II*).

Utilizing this information, the NMOCD guidelines indicate the Hill Tank Battery release site to have a ranking score of twenty. Based on this score, the NMOCD Recommended Remedial Action Levels (RRALs) for this Site were determined as follows: Benzene – 10 mg/Kg, BTEX – 50 mg/Kg, TPH – 100 mg/Kg, and Chloride – 250 mg/Kg.

The fluid stayed within the tank battery containment. The area to the south of the tank battery covered an area approximately 81 x 41 feet. The area consists of approximately two feet of sandy topsoil atop a hard caliche layer.

Delineation Activities:

EPI personnel mobilized on the site on October 7, 2016 to collect soil samples to determine the vertical extent of contamination. A total of twelve soil samples were collected from four sample



locations; SP1 – SP4. Four representative samples, one from each sample point, were sent to Cardinal Labs for chloride testing. Laboratory analytical results indicate the release area is void of Chloride concentrations in excess of NMOCD RRALs (reference *Figure 3* and *Table 2*).

Field testing of the surface sample from SP4 indicated elevated chlorides above NMOCD RRALs. In lieu of excavation the area was dug up, blended, resampled, and backfilled. The composite sample collected was sent to Cardinal Labs for chloride testing. Laboratory analytical results indicate the area to be void of Chloride concentrations in excess of NMOCD RRALs (reference *Figure 3* and *Table 2*).

Portions of select soil samples were field tested for organic vapors and chloride concentrations. Soil samples collected for field testing of organic vapors were placed in self-sealing polyethylene bags and allowed to equilibrate to ~70° F. Field testing of organic vapors utilized a Mini-RaeTM Photoionization Detector (PID) equipped with a 10.6 electron-volt (eV) calibrated for benzene response. Chloride concentrations were determined via use of a LaMotte Chloride Kit (Titration Method).

Soil samples designated for laboratory analyses were collected into laboratory provided glass containers, labeled and inserted into self-sealing polyethylene bags, placed in a cooler, chilled and transported to an independent laboratory for quantification of contaminant concentrations under Chain-of-Custody protocol.

On February 7, 2017 EPI personnel were on site to collect soil samples from within the lined containment area. A total of five soil samples were collected from five sample locations, SP5 – SP9. All five samples were sent to Cardinal labs for testing. Laboratory analytical results indicate the lined containment area to be void of contaminant concentrations in excess of NMOCD RRALs (reference *Figure 3* and *Table 2*).

Completed Actions:

The entire tank battery was rebuilt and liner replaced. Collier Backhoe Service worked in conjunction with Balderama to remove the contaminated soil and process equipment. The contaminated soil was scrapped up and the berms were removed. All contaminated soil was hauled to a state approved disposal facility. Clean caliche was hauled in, the berms were replaced, a new liner installed, and the tank battery was rebuilt (reference *Attachment IV* and *NMOCD website*).

All the work to rebuild the tank battery was completed before EPI arrived on site to sample the area to the south of the battery. The area to the south of the battery affected by the fire had already been scraped up when the tank battery was rebuilt, however, EPI personnel collected samples from the area. Based on the field testing data and laboratory analytical data, the area around SP4 was excavated, blended, resampled, and backfilled. The work on this area to the south of the tank battery comprises the extent of the work for which EPI was contracted.

Upon completion of backfill activities, the disturbed area was contoured to blend with existing pasture area and protected against wind/water erosion.



Should you have any questions or concerns please feel free to contact me at (575) 394-3481 or via e-mail at ddominguezepi@gmail.com or Mr. Chuck Johnston at (432) 202-4771 or via e-mail at cjohnston@vnrllc.com. All official communication should be addressed to:

Mr. Chuck Johnston Vanguard Operating, LLC 4001 Penbrook, Suite 2001 Odessa, Texas 79762

Sincerely,

ENVIRONMENTAL PLUS, INC.

Daniel Dominguez

Environmental Consultant

cc: Olivia Yu, Environmental Specialist – NMOCD District 1, Hobbs, NM Chuck Johnston, EHS – Vanguard

File

Encl.: Figure 1 – Area Map

Figure 2 – Site Location Map Figure 3 – Sample/Site Map

Table 1 – Well Data

Table 2 – Summary of Soil Sample Field Testing and Laboratory Analytical Results

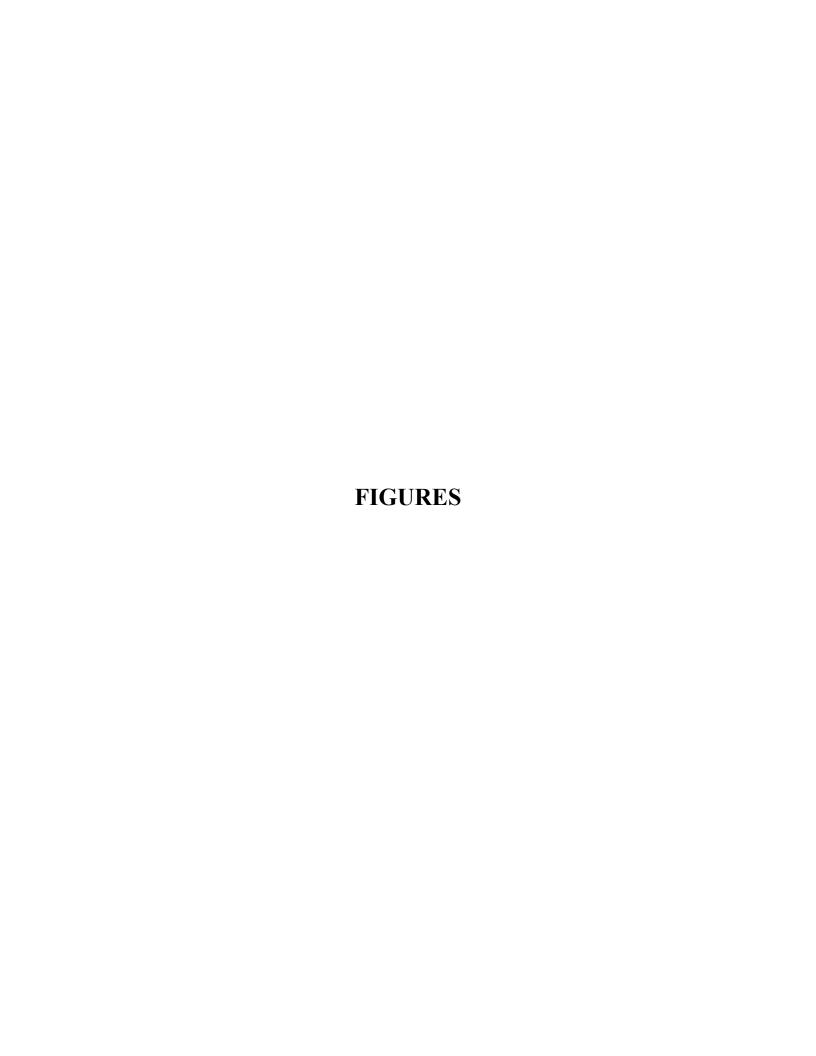
Attachment I – Photographs

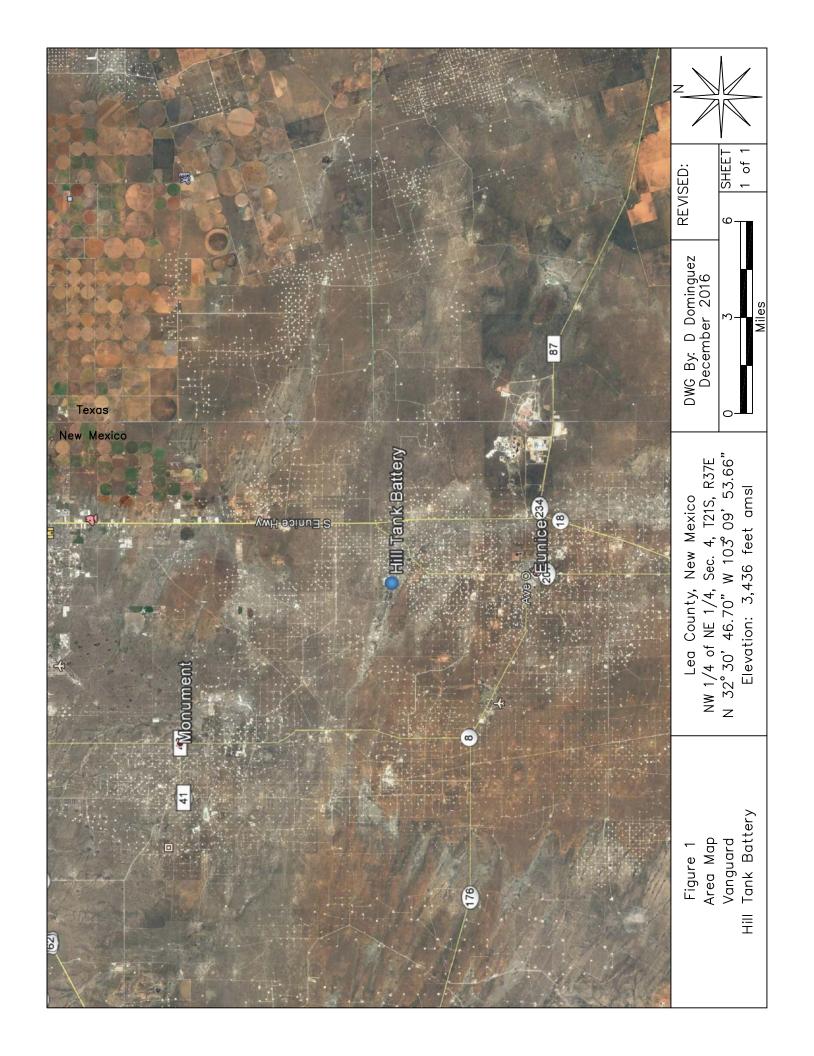
Attachment II – NMOSE Average Depth to Groundwater

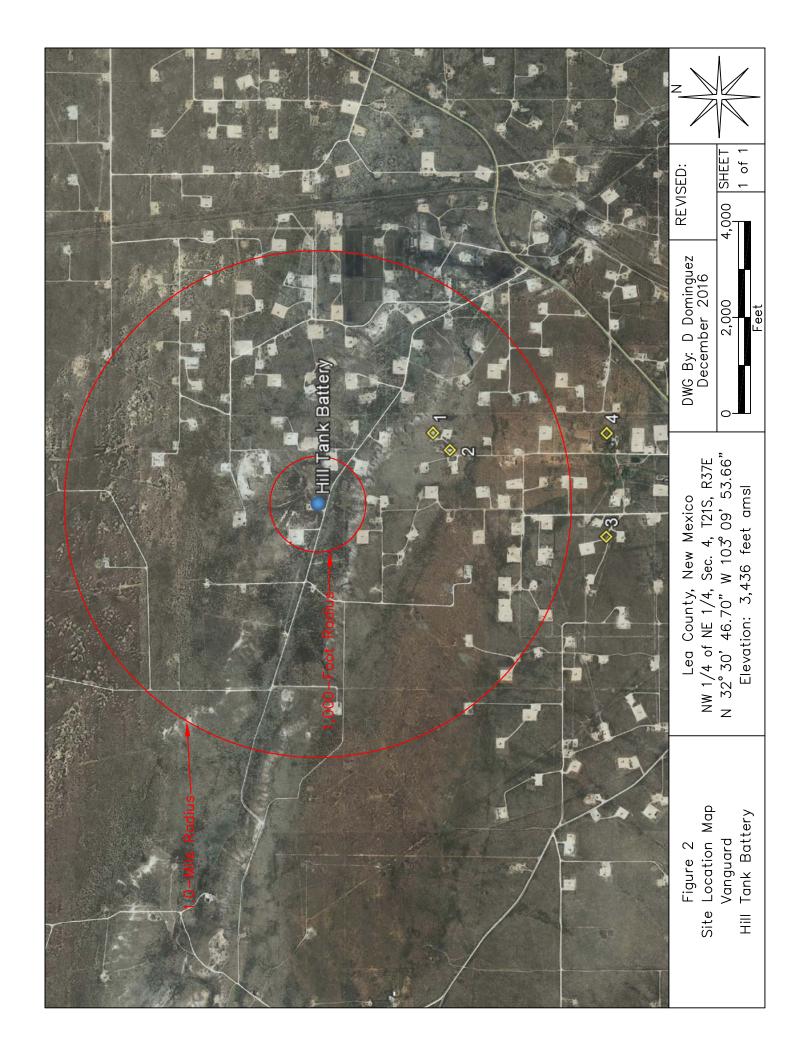
Attachment III – Laboratory Analytical Results

Attachment IV – E-mail Correspondence, Liner Specifications, Disposal Tickets

Attachment V – Copy of Initial NMOCD Form C-141, Final NMOCD Form C-141







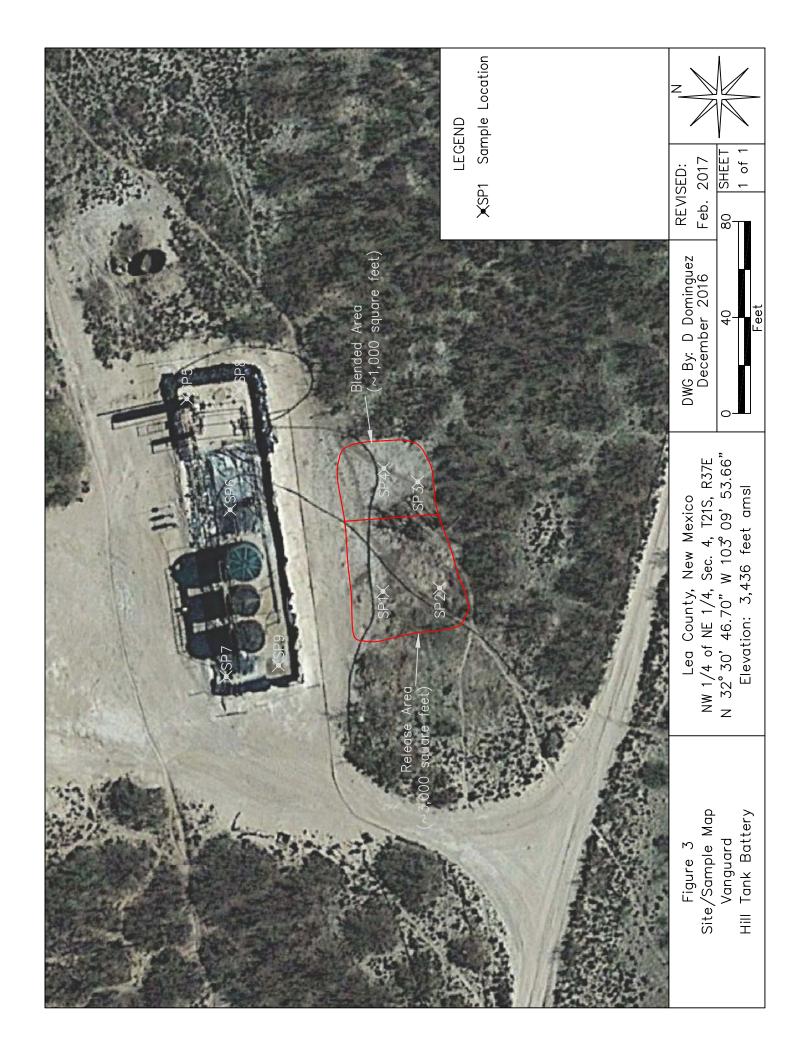




TABLE 1

Well Data

Vanguard - Hill Tank Battery

| Well Number | Use | Use Diversion ^A | Owner | d64 | q16 | 4 | Sec T | wsp | Ang F | Sasting | q64 q16 q4 Sec Twsp Rng Easting Northing Distance | Distance ^B | Date Measured | Date Surface Measured Elevation ^C | Depth to Water |
|-------------|-----|----------------------------|---|-----|-----|---|-------|-----|-------|---------|---|-----------------------|---------------------|--|-------------------|
| | | | | | | | | | | | | | | | (ft bgs) |
| | IRR | 3 | INTERFIRST BANK FORT WORTH, NA 2 2 4 4 21S 37E 672799 3598121 | 2 | 2 | 4 | 4 | 21S | 37E (| 572799 | 3598121 | 784 | 1 | 3,474 | : |
| | STK | 3 | MILLARD DECK | | 2 | 4 | 4 | 21S | 37E (| 572700 | 21S 37E 672700 3598022 | | 825 31-Jul-76 3,477 | 3,477 | 75 |
| | IRR | 3 | INTERFIRST BANK FORT WORTH, NA 3 1 2 9 21S 37E 672212 3597110 | 3 | 1 | 2 | 6 | 21S | 37E (| 572212 | 3597110 | 1,678 | : | 3,481 | 1 |
| | IRR | 3 | INTERFIRST BANK FORT WORTH, NA | 4 | 2 | 2 | 6 | 21S | 37E (| 572814 | 4 2 2 9 21S 37E 672814 3597117 | 1,720 | | 3,472 | |

* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/iWATERS/wr_RegisServlet1)

 $^{\mathrm{C}}=\mathrm{Elevation}$ interpolated from USGS topographical map based on referenced location. $^{\mathrm{B}}=$ In meters A = In acre feet per annum

IRR = Irrigation

STK = 72-12-1 Livestock watering

quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are smallest to biggest -- = Data not provided on the NM iwaters website

TABLE 2 Summary of Soil Sample Field Testing and Laboratory Analytical Results Vanguard Hill Tank Battery

| - | | | | PID | Field | , | | : | Total | Total | GRO | DRO | Total | |
|------------------|-----------------|---|--------------|---------------|---------------------|--------------------|--------------------|-------------------------|--------------------|--------------|----------------|--------------------|-------------|---------------------|
| Lab Sample ID | Depth (feet) | Soil Status | Sample Date | Reading (ppm) | Chloride (mg/Kg) | Benzene (mg/Kg) | Toluene (mg/Kg) | Ethylbenzene (mg/Kg) | Xylenes (mg/Kg) | BTEX (mg/Kg) | C6-C10 (mg/Kg) | C10-C28 (mg/Kg) | TPH (mg/Kg) | Chloride (mg/Kg) |
| | Surface | In-Situ | 07-Oct-16 | 15.0 | 160 | - | - | : | - | 1 | ŀ | 1 | 1 | ł |
| SP1 | 1 | In-Situ | 07-Oct-16 | 0.0 | 240 | ŀ | 1 | 1 | ŀ | ŀ | l | ŀ | I | 192 |
| | 2 | In-Situ | 07-Oct-16 | 0.0 | 08 | | | | - | - | 1 | | 1 | ; |
| | Surface | In-Situ | 07-Oct-16 | 0.0 | 80 | 1 | 1 | 1 | 1 | 1 | ł | l | ı | 1 |
| SP2 | 1 | In-Situ | 07-Oct-16 | 0.0 | 08 | 1 | 1 | 1 | 1 | l | I | ŀ | ŀ | 32 |
| | 2 | In-Situ | 07-Oct-16 | 0.0 | 08 | | | - | - | - | 1 | - | - | : |
| | Surface | In-Situ | 07-Oct-16 | 0.0 | 08 | - | - | - | - | 1 | ŀ | ŀ | - | ł |
| SP3 | 1 | In-Situ | 07-Oct-16 | 0.0 | 08 | 1 | - | 1 | 1 | I | I | ŀ | I | 08 |
| | 2 | In-Situ | 07-Oct-16 | 0.0 | 08 | | | | - | - | 1 | - | - | + |
| | Surface | In-Situ | 07-Oct-16 | 0.0 | 360 | - | - | - | - | 1 | ŀ | 1 | - | 1 |
| CD4 | 1 | In-Situ | 07-Oct-16 | 0.0 | 08 | | | | | | - | | 1 | 64 |
| 5I.4 | 2 | In-Situ | 07-Oct-16 | 0.0 | 08 | | | | - | - | 1 | | 1 | - |
| | Comp | In-Situ | 12-Dec-16 | I | 160 | 1 | - | 1 | ! | I | l | ı | ı | 64 |
| SP5 | 9 | In-Situ | 07-Feb-17 | 4.6 | 80 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <20.0 | 32 |
| SP6 | 9 | In-Situ | 07-Feb-17 | 1.7 | 80 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | 36.6 | 36.6 | 32 |
| SP7 | 9 | In-Situ | 07-Feb-17 | 2.3 | 80 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <20.0 | 16 |
| SP8 | 9 | In-Situ | 07-Feb-17 | 4.1 | 120 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | 20.5 | 20.5 | 64 |
| 6dS | 9 | In-Situ | 07-Feb-17 | 4.0 | 08 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <20.0 | <16.0 |
| NMOCD | Recomm I | NMOCD Recommended Remedial Action Levels | edial Action | 100 | | 10 | | | | 50 | | | 100 | 250 |
| = Not Analyzed | | | | | | 1 | | | | | | | | |



ATTACHMENT I Photographs





Photograph #2 – Tank battery struck by lightning



Photograph #3 – Tank battery struck by lightning



Photograph #4 – Looking across release area



Photograph #5 – Rebuilt tank battery with new liner



Photograph #6 – Rebuilt tank battery with new liner



Photograph #7 – Sampling the area south of the battery



Photograph #8 – Sampling the area south of the battery



Photograph #9- Looking across excavation around SP4



Photograph #10- Blending the soil around SP4



Photograph #11- Blended soil backfilled



Photograph #12- Blended soil backfilled

ATTACHMENT II NMOSE Average Depth to Groundwater



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters) (In feet)

| 3 , | / | | | • | , , , | | , | • | , | |
|------------|-------------------|-----------|---------|-----|--------|------------|----------|-------|-------|--------|
| | POD | | | | | | | | | |
| | Sub- | QQQ | ! | | | | | Depth | Depth | Water |
| POD Number | Code basin County | y 64 16 4 | Sec Tws | Rng | Х | Υ | Distance | Well | Water | Column |
| CP 00552 | LE | 2 4 | 04 21S | 37E | 672700 | 3598022* 🌍 | 825 | 90 | 75 | 15 |
| CP 00553 | LE | 2 4 | 04 21S | 37E | 672700 | 3598022* 🌍 | 825 | 90 | 75 | 15 |

Average Depth to Water: 75 feet

Minimum Depth: 75 feet

Maximum Depth: 75 feet

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 672375 **Northing (Y):** 3598781 **Radius:** 2000

ATTACHMENT III Laboratory Analytical Results



October 25, 2016

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: HILL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/20/16 15:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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.

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

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

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231

Fax To: (505) 394-2601

Received: 10/20/2016 Sampling Date: 10/07/2016

Reported: 10/25/2016 Sampling Type: Soil

Project Name: HILL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL- SEC. 4, T21S, R37E

Sample ID: SP 1 (1') (H602357-01)

| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
|---|-----------------------------|----------------------|-------------------------|------------------------|-----------|------------|----------------------|-------------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 192 | 16.0 | 10/24/2016 | ND | 400 | 100 | 400 | 3.92 | |
| Sample ID: SP 2 (1') (H6 | 02357-02) | | | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 10/24/2016 | ND | 400 | 100 | 400 | 3.92 | |
| | | | | | | | | | |
| Sample ID: SP 3 (1') (H6 | 02357-03) | | | | | | | | |
| Sample ID: SP 3 (1') (H6 | = | /kg | Analyze | d By: AC | | | | | |
| | = | /kg Reporting Limit | Analyze Analyzed | d By: AC Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride, SM4500CI-B | mg | - | | • | BS 400 | % Recovery | True Value QC 400 | RPD 3.92 | Qualifier |
| Chloride, SM4500CI-B Analyte | Result | Reporting Limit | Analyzed | Method Blank | | , | • | | Qualifier |
| Chloride, SM4500CI-B Analyte Chloride | Result 80.0 02357-04) | Reporting Limit | Analyzed 10/24/2016 | Method Blank | | , | • | | Qualifier |
| Chloride, SM4500CI-B Analyte Chloride Sample ID: SP 4 (1') (H6 | Result 80.0 02357-04) | Reporting Limit | Analyzed 10/24/2016 | Method Blank ND | | , | • | | Qualifier |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231 (575) 394-3481 FAX: (575) 394-2601

P.O. Box 1558, Eunice, NM 88231

| Delivered by: | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | David Robinson | Sampler Relinquished: | 10 | 9 | 8 | 7 | 6 | 5 | 4 SP4 (1') | 3 SP3 (1') | 2 SP2 (1') | 1 SP1 (1') | LAB I.D. | | EPI Sampler Name | Project Reference | Location | Facility Name | Client Company | EPI Phone#/Fax# | City, State, Zip | Mailing Address | EPI Project Manager | Company Name |
|---------------------|--|----------------|--------------------------|----|----------|----------|----------|---|---|------------|------------|------------|------------|------------------------------|-------------|------------------|-------------------|------------------------|-------------------|----------------|-----------------------------|-------------------------|-----------------|---------------------|--------------------------|
| Sample Cod & Intact | 11/2/1 | Time 6:00 am | Date 10-10-16 Received 8 | | | | | | |) |) |) |) | SAMPLE I.D. | | David Robinson | | UL- Sec. 4, T21S, R37E | Hill Tank Battery | Vanguard | 575-394-3481 / 575-394-2601 | Eunice New Mexico 88231 | P.O. BOX 1558 | Daniel Dominguez | Environmental Plus, Inc. |
| Coo | Rece | 0 | Recei | | | | | | | G | G | G | G | (G)RAB OR (C)OMF | <u>`</u> . | | | 37E | | | 94-2 | 882 | | | Inc |
| & Intac | ived By: | 6 | ved 8 | | | L | | | | 1 | 1 | _ | 1 | # CONTAINERS | _ | | | | | | 601 | 31 | | | Ĺ |
| 3 2 | y (lab s | ~ | × | L | L | L | L | L | | | L | L | L | GROUND WATER | | | | | | | | | | | |
| - | o s(aff) | Ş | - | L | L | L | L | | | L | L | | | WASTEWATER | _ | | | | | | | L | | L | |
| | M |)/ | 1 | L | L | L | L | | L | × | × | × | × | SOIL | MATRIX | | | | | | | | | | |
| A CE | " | | 1 | L | L | L | L | | _ | L | | L | L | CRUDE OIL | ž | | | | | | | | | | |
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| ١, | | OTE | -mai | L | L | L | L | L | L | × | × | × | × | ICE/COOL | SER | ce, | 9. B | nie | | | | | | | B |
| | | NOTES: | results to: ddoming | | | | | | | 07-Oct-16 | 07-Oct-16 | 07-Oct-16 | 07-Oct-16 | OTHER | V. SAMPLING | Eunice, NM 88231 | P.O. Box 1558 | Attn: Daniel Dominguez | | | | | | | Bill To |
| | | | quezepi@gn | | | | | | | 11:46 | 11:16 | 10:31 | 10:01 | TIME | NG | | | | | | | | | | |
| | | | nail.c | L | L | | L | | L | L | L | | | BTEX 8021B | | | | | | | | | | | |
| | | | om 8 | L | L | L | L | L | L | L | L | L | L | TPH 8015M | | | | | | | | | | | |
| 1 | | | bbc | L | L | L | L | L | L | × | × | × | × | CHLORIDES (CI') | | | | | | | | | | | B |
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#15

Chain of Custody Form

LAB

Cardinal



December 16, 2016

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: HILL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/12/16 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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.

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

Method EPA 552.2 Haloacetic 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 12/12/2016 Sampling Date: 12/12/2016
Reported: 12/16/2016 Sampling Type: Soil

Project Name: HILL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL- SEC. 4, T21S, R37E

Sample ID: SP 4 (H602782-01)

| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 12/14/2016 | ND | 416 | 104 | 400 | 3.77 | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

| | | | | | | | | | | | | | | _ | _ | | | | <u></u> | | ΩT. | | _ | <u></u> | ~ · | | _ |
|--|---|----|---|---|---|---|---|---|---------|---|-----------|-----------|------------------------------|----------|------------------|-------------------|------------------------|-------------------|----------------|-----------------------------|-------------------------|-----------------|---------------------|---------------------|--|------------------------------|------------------------|
| Sampler Relinquished: A. A. J. Relinquished by: Delivered by: | | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 18 | | LAB I.D. | | EPI Sampler Name | Project Reference | Location | Facility Name | Client Company | EPI Phone#/Fax# | City, State, Zip | Mailing Address | EPI Project Manager | O I | 2100 Avenue O, Eunice, NM 66231 (575) | EHVII OHIII | Davironm |
| Date 12-12-18 Received by Time 2:00 pm Date 1/1/12/16 Received by Time 3:05 pm Time 3:05 pm Time 3:05 pm Sample Cedi & Intact No | | | | | | | | | | | SP4 | | SAMPLE I.D. | | Kirby Bingham | | UL- Sec. 4, T21S, R | Hill Tank Battery | Vanguard | 575-394-3481 / 575-394-2601 | Eunice New Mexico 88231 | | | Environmental Plus, | FAX: (575) 394-2601 | Ciitai i ius, inc. | Environmental Plus Inc |
| Recei | | _ | H | T | H | H | H | H | T | t | 7 | 1 | (G)RAB OR (C)OMF | ۶. | 1 | ١ | R37E | | | 94- | 882 | | | Inc. | 3 | 0 | |
| Received Received | - | Т | T | T | Г | Г | Г | T | T | T | Ī | | # CONTAINERS | |] | ١ | | | | 601 | 3 | | | ľ | ١ | B O Box 1558 Eunice NM 88231 | |
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| (liab star | | Г | Г | Г | | | | Γ | T | | Ι | | WASTEWATER | | L | L | L | L | L | L | L | L | L | | 3 | 77.0 | |
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| 221 | | Г | Т | Т | Г | Т | Т | Γ | Τ | T | T | 1 | CRUDE OIL | 꽃 | | | | | | | | | | | | n. | |
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| N I | | Г | T | T | T | T | Т | Т | T | Т | 7 | × | ICE/COOL | PRESERV. | Ce | 9 | anı | | | | | | | 8 | | 3 | |
| E-mail re NOTES: | | Г | T | T | T | Τ | Т | T | T | T | T | | OTHER | ? | 3 | Z OX | 9 | , | | | 1 | | | Bill To | | | |
| E-mail results to: ddominguezepi@gmail.com & bboone.epi@gmail.com NOTES: | | | | | | | | | | | | 12-Dec-16 | DATE | SAMPLING | 200 | P.O. Box 1558 | Attn: Daniel Dominguez | • | | | | | | 0 | | | |
| guezepi@g | | | T | | | | I | I | | | | 13:00 | TIME | Ğ | 5 | | | | | | | | | | | | |
| mail. | | T | T | T | T | T | T | T | T | T | I | | BTEX 8021B | | | | | | | | | | | | | | |
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February 14, 2017

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: HILL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/08/17 15:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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.

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

Method EPA 552.2 Haloacetic 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231

Fax To: (505) 394-2601

Received: 02/08/2017 Sampling Date: 02/07/2017

Reported: 02/14/2017 Sampling Type: Soil

Project Name: HILL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL- SEC. 4, T21S, R37E

Sample ID: SP 5 (6") (H700327-01)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/11/2017 | ND | 1.68 | 83.8 | 2.00 | 0.0733 | |
| Toluene* | <0.050 | 0.050 | 02/11/2017 | ND | 1.65 | 82.3 | 2.00 | 0.0907 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/11/2017 | ND | 1.65 | 82.6 | 2.00 | 0.0214 | |
| Total Xylenes* | <0.150 | 0.150 | 02/11/2017 | ND | 4.69 | 78.1 | 6.00 | 0.153 | |
| Total BTEX | <0.300 | 0.300 | 02/11/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 84.5 | % 73.6-14 | 0 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 02/14/2017 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 02/10/2017 | ND | 179 | 89.6 | 200 | 1.53 | |
| DRO >C10-C28 | <10.0 | 10.0 | 02/10/2017 | ND | 187 | 93.7 | 200 | 1.91 | |
| Surrogate: 1-Chlorooctane | 77.5 | % 35-147 | , | | | | | | |
| Surrogate: 1-Chlorooctadecane | 84.5 | % 28-171 | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

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Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231

Fax To: (505) 394-2601

Received: 02/08/2017 Sampling Date: 02/07/2017

Reported: 02/14/2017 Sampling Type: Soil

Project Name: HILL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL- SEC. 4, T21S, R37E

Sample ID: SP 6 (6") (H700327-02)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|---------|-----------------|------------|--------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/11/2017 | ND | 1.68 | 83.8 | 2.00 | 0.0733 | |
| Toluene* | <0.050 | 0.050 | 02/11/2017 | ND | 1.65 | 82.3 | 2.00 | 0.0907 | |
| Ethylbenzene* | < 0.050 | 0.050 | 02/11/2017 | ND | 1.65 | 82.6 | 2.00 | 0.0214 | |
| Total Xylenes* | <0.150 | 0.150 | 02/11/2017 | ND | 4.69 | 78.1 | 6.00 | 0.153 | |
| Total BTEX | <0.300 | 0.300 | 02/11/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 83.8 9 | % 73.6-14 | 0 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 02/14/2017 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 02/10/2017 | ND | 179 | 89.6 | 200 | 1.53 | |
| DRO >C10-C28 | 36.6 | 10.0 | 02/10/2017 | ND | 187 | 93.7 | 200 | 1.91 | |
| Surrogate: 1-Chlorooctane | 71.2 9 | % 35-147 | , | | | | | | |
| Surrogate: 1-Chlorooctadecane | 83.7 9 | % 28-171 | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

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02/07/2017



Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 02/08/2017 Sampling Date:

Reported: 02/14/2017 Sampling Type: Soil

Project Name: HILL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL- SEC. 4, T21S, R37E

Sample ID: SP 7 (6") (H700327-03)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/11/2017 | ND | 1.68 | 83.8 | 2.00 | 0.0733 | |
| Toluene* | <0.050 | 0.050 | 02/11/2017 | ND | 1.65 | 82.3 | 2.00 | 0.0907 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/11/2017 | ND | 1.65 | 82.6 | 2.00 | 0.0214 | |
| Total Xylenes* | <0.150 | 0.150 | 02/11/2017 | ND | 4.69 | 78.1 | 6.00 | 0.153 | |
| Total BTEX | <0.300 | 0.300 | 02/11/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 83.7 | % 73.6-14 | 0 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 02/14/2017 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 02/10/2017 | ND | 179 | 89.6 | 200 | 1.53 | |
| DRO >C10-C28 | <10.0 | 10.0 | 02/10/2017 | ND | 187 | 93.7 | 200 | 1.91 | |
| Surrogate: 1-Chlorooctane | 86.1 | % 35-147 | , | | | | | | |
| Surrogate: 1-Chlorooctadecane | 89.8 | % 28-171 | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

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Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231

Fax To: (505) 394-2601

Received: 02/08/2017 Sampling Date: 02/07/2017

Reported: 02/14/2017 Sampling Type: Soil
Project Name: HILL TANK BATTERY Sampling Condition: Cool

Project Name: HILL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL- SEC. 4, T21S, R37E

Sample ID: SP 8 (6") (H700327-04)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|---------|-----------------|------------|--------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | < 0.050 | 0.050 | 02/11/2017 | ND | 1.68 | 83.8 | 2.00 | 0.0733 | |
| Toluene* | < 0.050 | 0.050 | 02/11/2017 | ND | 1.65 | 82.3 | 2.00 | 0.0907 | |
| Ethylbenzene* | < 0.050 | 0.050 | 02/11/2017 | ND | 1.65 | 82.6 | 2.00 | 0.0214 | |
| Total Xylenes* | <0.150 | 0.150 | 02/11/2017 | ND | 4.69 | 78.1 | 6.00 | 0.153 | |
| Total BTEX | <0.300 | 0.300 | 02/11/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 82.6 % | % 73.6-14 | 0 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 02/14/2017 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 02/10/2017 | ND | 179 | 89.6 | 200 | 1.53 | |
| DRO >C10-C28 | 20.5 | 10.0 | 02/10/2017 | ND | 187 | 93.7 | 200 | 1.91 | |
| Surrogate: 1-Chlorooctane | 78.1 9 | % 35-147 | , | | | | | | |
| Surrogate: 1-Chlorooctadecane | 88.1 9 | % 28-171 | | | | | | | |

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Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231

Fax To: (505) 394-2601

Received: 02/08/2017 Sampling Date: 02/07/2017

Reported: 02/14/2017 Sampling Type: Soil

Project Name: HILL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL- SEC. 4, T21S, R37E

Sample ID: SP 9 (6") (H700327-05)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/11/2017 | ND | 1.68 | 83.8 | 2.00 | 0.0733 | |
| Toluene* | <0.050 | 0.050 | 02/11/2017 | ND | 1.65 | 82.3 | 2.00 | 0.0907 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/11/2017 | ND | 1.65 | 82.6 | 2.00 | 0.0214 | |
| Total Xylenes* | <0.150 | 0.150 | 02/11/2017 | ND | 4.69 | 78.1 | 6.00 | 0.153 | |
| Total BTEX | <0.300 | 0.300 | 02/11/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 81.5 | % 73.6-14 | 0 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 02/14/2017 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 02/10/2017 | ND | 179 | 89.6 | 200 | 1.53 | |
| DRO >C10-C28 | <10.0 | 10.0 | 02/10/2017 | ND | 187 | 93.7 | 200 | 1.91 | |
| Surrogate: 1-Chlorooctane | 77.7 | % 35-147 | , | | | | | | |
| Surrogate: 1-Chlorooctadecane | 87.8 | % 28-171 | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

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Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Environmental Plus, Inc.

Chain of Custody Form

| | Relinquished by: Delivered by: | Sampa Nemidusined | Sampler Relinquished: | 10 | 9 | 8 | 7 | | л | | | 2 | 1 | LAB I.D. H700327 | | EPI Sampler Name | Project Reference | Location | Facility Name | Client Company | EPI Phone#/Fax# | City, State, Zip | Mailing Address | EPI Project Manager | Company Name | (575) 394-3481 | 2100 Avenue O, | |
|----|--------------------------------|---|-----------------------|----------|----------|----------|---|--------------|-----------|-----------|-----------|-----------|-----------|---------------------|----------|-------------------|-------------------|------------------------|-------------------|----------------|-------------------------------|-------------------------|-----------------|---------------------|--------------------------|---------------------|---------------------------------|-----------------------|
| (| 15,50 (Yes) 15,50 (Yes) | Date 2-8-17 | | | | | | | SPO (6") | | | | SP5 (6") | SAMPLE I.D. | | me David Robinson | ce | UL- Sec. 4, T21S, | Hill Tank Battery | Vanguard | # 575-394-3481 / 575-394-2601 | Eunice New Mexico 88231 | | | Environmental Plus, Inc. | FAX: (575) 394-2601 | 2100 Avenue O, Eunice, NM 88231 | montain institution |
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| | | E-mail results to: ddominguezepi@gmail.com & bboone.epi@gmail.com | | | | | | 07-Feb-17 | 07-Feb-17 | 07-Feb-17 | 0/-Feb-1/ | 07-Feb-1/ | 07 5-1-47 | DATE | SAMPLING | | 1558 | Attn: Daniel Dominguez | | | | | | | 0 | | | |
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ATTACHMENT IV E-mail Correspondence Liner Specifications Disposal Tickets

REVIEWEDBy Olivia Yu at 9:09 am, May 02, 2017

From: Yu, Olivia, EMNRD

To: "Daniel Dominguez"

Cc: Oberding, Tomas, EMNRD

Subject: RE: Reports needing review and approval Date: Tuesday, February 7, 2017 4:35:00 PM

Dear David:

I am not sure if Tomáš already informed you. I hope the below points that you requested clarification from our meeting on Feb 3 will address some of your concerns.

- 1) Depth to groundwater: As I mentioned and I think we agreed upon, workplans optimally should include data from the Chevron Trend Map and OSE data. Use the more conservative depth to groundwater for planning delineation.
- 2) While it is not a mandatory requirement to analyze the 'surface' sample, NMOCD highly recommend that surface samples are taken and analyzed despite apparent contamination as important baseline points of reference.
- 3) Hill Battery (1RP-4450): The work on the pad that was done prior to your involvement has been referred to Santa Fe. The consensus is that delineation samples are still required from within the berm, despite the cleanup. Are you still involved as a consultant for the incident? In other words, will you be able to obtain the necessary samples from within the bermed area that you were not initially responsible for?

From: Yu, Olivia, EMNRD

Sent: Monday, January 30, 2017 5:00 PM

To: Daniel Dominguez <ddominguezepi@gmail.com> **Subject:** RE: Reports needing review and approval

Dear Mr. Dominguez:

I have concerns regarding the reports. They are listed below. Please address them. You are welcome to contact me if you have questions or need clarification.

FYI. The standard procedure is to submit an initial C-141, followed by a work plan with details on delineation/release characterization to NMOCD for approval. Then, depending on the conditions of approval (COAs), NMOCD will respond accordingly. Only afterwards, should a final remediation report and final C-141 be submitted.

Thanks, Olivia

Hill Battery: 1RP-4450

I do not agree with your Request for No Further Action. A work plan to delineate/characterize release is required especially since there was a fire. Is this site already back in operation?

- 1. Did you test the soil samples for BTEX and TPH? If not, why?
- 2. Check the NM Office of State Engineer (OSE) for depth to groundwater.
- 3. A lined facility does not mean exemption from NMOCD regulations.

From: Chuck Johnston
To: Yu, Olivia, EMNRD

Subject: FW: Hill Tank Battery Samples 1RP 4450

Date: Monday, March 20, 2017 7:03:43 AM

Attachments: image001.png

image004.png H700327 EPI.pdf sundance 1.pdf sundance 2.pdf

Olivia, as requested please see the attached files for the Hill Central Battery and where I sent to Dr. Oberding below.

Thanks,

Chuck Johnston EHS / Operations Specialist 432-202-4771 Cell 432-248-8154 Office



From: Chuck Johnston

Sent: Tuesday, February 21, 2017 1:09 PM

To: 'Oberding, Tomas, EMNRD'

Subject: FW: Hill Tank Battery Samples 1RP 4450

Dr. Oberding, please find attached the sample map and results of the containment area of the Hill Central Battery. I have also attached the soil disposal tickets to Sundance for the Hill battery as well. Let me know if you need anything else.

Chuck Johnston EHS / Operations Specialist 432-202-4771 Cell 432-248-8154 Office



From: Daniel Dominguez [mailto:ddominguezepi@gmail.com]

Sent: Tuesday, February 21, 2017 9:47 AM

To: Yu, Olivia, EMNRD; Chuck Johnston; brandon boone

Subject: Hill Tank Battery Samples

click links from unknown senders or unexpected email.

Ms. Yu,

Attached are the sample results for the Hill Tank Battery. The samples were collected from inside the bermed area.

--

Sincerely, ENVIRONMENTAL PLUS, INC.

Daniel Dominguez Environmental Consultant/Safety Director

Environmental Plus, Inc. P.O. Box 1558 2100 Avenue 'O' Eunice, NM 88231 (575) 631-0401 (Cell) (575) 394-3481 (Office) (575) 394-2601 (fax)

DURA-SKRIM®

| PROPERTIES | TEST METHOD | DURA+SK | RIM R20WW |
|--------------------------------------|---------------------|-----------------------|--------------------------|
| | | English | Metric |
| APPEARANCE | | White | e/White |
| THICKNESS, NOMINAL | | 20 mil | 0.51 mm |
| WEIGHT PER MSF | | 105 lbs. | 48 kg |
| Construction | | Extrusion laminated v | with scrim reinforcement |
| *1" Tensile Strength | ASTM D751 | 75 lbf. | 334 N |
| ELONGATION AT PEAK STRENGTH (90 LBS) | ASTM D751 | 25% | 25% |
| ELONGATION AT BREAK | ASTM D751 | 900% | 900% |
| *GRAB TENSILE | ASTM D751 | 150 lbf. | 668 N |
| TENSILE STRENGTH AT YIELD | ASTM D882 | 94 lbf. | 419 N |
| PUNCTURE STRENGTH | ASTM D4833 | 39 lbf. | 174 N |
| *TRAPEZOID TEAR | ASTM D4533 | 95 lbf. | 423 N |
| HYDROSTATIC RESISTANCE | ASTM D751 | 150 psi | 1034 kPa |
| MAXIMUM USE TEMPERATURE | | 180°F | 82°C |
| MINIMUM USE TEMPERATURE | | -70°F | -57°C |
| PERMEABILITY | | | |
| WVTR | ASTM E96 **Method A | 0.010 g/100in²/day | 0.155 g/m²/day |
| PERM RATING | ASTM E96 **Method A | 0.022 U.S. Perms | 0.015 Metric Perms |

^{*}Tests are an average of diagonal directions.

^{**}All testing was performed at 73°F and 50% relative humidity.



DURA+SKRIM R20WW is a white four layer reinforced extrusion laminate. The outer layers consist of high-strength, virgin, linear low density polyethylene film. The white layers contain U.V. and thermal stabilizers. DURA+SKRIM R20WW is reinforced with a ply of a 1000 denier polyester scrim laid in a diagonal pattern spaced 3/8" apart with an additional machine direction scrim every 3" across the width. The individual plies are laminated together with black molten polyethylene.

Note: To the best of our knowledge, these are typical property values and are intended as guides only, not as specification limits. RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.



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P.O. Box 5107 Sioux Falls, SD 57117-5107 (605) 335-0174 (605) 331-0333 - FAX **800-635-3456**

Sundance Services, Inc.

Invoice

P. O. Box 1737 Eunice, NM 88231

| DATE | INVOICE# |
|-----------|----------|
| 9/30/2016 | 101815 |

| BILL TO | |
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| Vanguard Permain 4001 Penbrook St Suite 201 Odessa, TX 79762 | |

| PROJECT | TERMS |
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| HILL BATTE | |

| QUANTITY | DESCRIPT | TION | RATE | AMOUNT |
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| | HILL BATTERY #1 Sales Tax | | 7.3125% | 159.05 |
| Phone # | E-mail | | Total | \$2,334.05 |
| 575-394-2511 | acarrillo@sundanceservices.com | | | |

| SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 TICKET No. 396387 | | | | | | | |
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White - Sundance

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White - Sundance

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Canary - Sundance Acct #1

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| TICKET, OPERATOR/SHII MATERIAL EXEMPT FRO TO TIME, 40 U.S.C. § 690 THERETO, BY VIRTUE OF ASSOCIATED WITH THE GEOTHERMAL ENERGY. ALSO AS A CONDITION TICKET. TRANSPORTE OPERATOR/SHIPPER TO FACILITY FOR DISPOSA | MTHE RESOURCE, CONSERVATION On, et seq., THE NM HEALTH AND F THE EXEMPTION AFFORDED DIS EXPLORATION, DEVELOPMENT ON TO SUNDANCE SERVICES, INC. REPRESENTS AND WARRA O TRANSPORTER IS NOW DELIVAL. that the above Transporter loaded | SAF. CODE § 361.001 et seq., A RILLING FLUIDS, PRODUCED V OR PRODUCTION OF CRUDE S ACCEPTANCE OF THE MATER ANTS THAT ONLY THE I FERED BY TRANSPORTER TO | ALS SHIPPED WITH THIS JOB MATERIAL DELIVERED BY SUNDANCE SERVICES, INC.'S STransporter Statement at the |
| TICKET, OPERATOR/SHII MATERIAL EXEMPT FRO TO TIME, 40 U.S.C. § 690 THERETO, BY VIRTUE OF ASSOCIATED WITH THE GEOTHERMAL ENERGY. ALSO AS A CONDITION TICKET. TRANSPORTE OPERATOR/SHIPPER TO FACILITY FOR DISPOSA | M THE RESOURCE, CONSERVATION OI, et seq., THE NM HEALTH AND F THE EXEMPTION AFFORDED DI E EXPLORATION, DEVELOPMENT ON TO SUNDANCE SERVICES, INC. ER REPRESENTS AND WARR O TRANSPORTER IS NOW DELIVAL. | SAF. CODE § 361.001 et seq., A RILLING FLUIDS, PRODUCED V OR PRODUCTION OF CRUDE S ACCEPTANCE OF THE MATER ANTS THAT ONLY THE I FERED BY TRANSPORTER TO | ALS SHIPPED WITH THIS JOB MATERIAL DELIVERED BY SUNDANCE SERVICES, INC.'S STransporter Statement at the |
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Re-order from: TOTALLY SHARP ADVERTISING • 432-586-5401 • www.PromoSuper

| | SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2517 TICKET No. 396484 |
|--------|---|
| FASE | OPERATOR/SHIPPER/COMPANY: Vanguar d |
| | NAME: HILL BOLLERY # |
| | SPORTER COMPANY: Collier Backhoe GENERATOR COMPANY Brylan Hask |
| DATE | MAN'S NAME: W |
| | RIG NAME AND NUMBER |
| CHA | GETO: Janguara |
| | TYPE OF MATERIAL |
| | [] Production Water [] Drilling Fluids [] Rinsate |
| | [] Production vaces |
| | Tank Bottoms [] BS&W Content: [] Call Out |
| Tales. | Solids |
| | Description: C-133# |
| RRC | or(PI#) 30-025-06599 |
| L | LUME OF MATERIAL BBLS. : YARD 2 : [] |
| | AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED TO TIME TO TIME. |
| | ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S |

Re-order from: TOTALLY SHARP ADVERTISING • 432-586-5401 • www.PromoSupermarket.com

| SUNDANCE SER P.O. Box 1737 Eunice, New (575) 394-25 | v Mexico 88231 | TICKET No. 396496 |
|---|-----------------------------|--|
| LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAME: HII BOTTO TRANSPORTER COMPANY: Ballder DATE: 9-30-16 VEHICLE NO: 6 | 2 | TIME 2:36 AMEN ATOR COMPANY Bryan Haspan MAN'S NAME: Bryan Haspan |
| [] Production Water [] Tank Bottoms [] Solids Description: | | [] Rinsate [] Jet Out [] Call Out Exchange [] Exchange [] Tank |
| TICKET, OPERATOR/SHIPPER REPRESEN | TS AND WARRANTS THAT THE WA | C-133# E MATERIALS SHIPPED WITH THIS JOB STE MATERIAL SHIPPED HEREWITH IS ACT OF 1976, AS AMENDED FROM TIME Of et seq., AND REGULATIONS RELATED |

THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

| DRIVER: (SIGNATURE) | |
|--------------------------|--|
| FACILITY REPRESENTATIVE: | |

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Re-order from: TOTALLY SHARP ADVERTISING • 432-586-5401 • www.PromoSupermarket.com

Sundance Services, Inc.

P. O. Box 1737 Eunice, NM 88231

Invoice

| DATE | INVOICE # |
|-----------|-----------|
| 9/30/2016 | 101814 |

Vanguard Permain
4001 Penbrook St
Suite 201
Odessa, TX 79762

| TERMS |
|-------|
| |
| |

| | | | HILL BATTE | | | |
|-----------|---|----------------|------------|------|------|----------------------|
| | | | | RATE | | AMOUNT |
| YTITMAUQ | | DESCRIPTION | | | 6.00 | 1,440.00T 210.00T |
| 3515 | BS&W Tank Bottoms Solids Trailer Jetout | | | 1 | 6.00 | 200.00T |
| | HILL BATTERY Sales Tax | | | 7.3 | 125% | 135.28 |
| Phone # | | | | Tota | I | \$1,985 |
| 1 Horic # | acarrillo@sundand | ceservices.com | | | | |

| SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 TICKET No. 395511 |
|--|
| EASE OPERATOR/SHIPPER/COMPANY: Varagiland Permian. |
| EASE NAME: HILL 131/1/4/ |
| RANSPORTER COMPANY: POlker ENERAL GENERATOR COMPANY TO TORKE |
| DATE: VEHICLE NO: 93 |
| HARGETO: Vallquand Permuan RIGNAME S75-370-Legel2 |
| TYPE OF MATERIAL |
| [] Production Water |
| [] Tank Bottoms [] Contaminated Soil [] Jet Out |
| [] Solids / BS&W Content: [] Call Out |
| B/< |
| Description:C-133# |
| RRC or API # |
| VOLUME OF MATERIAL XBBLS. 120 : [] YARD : [] |
| AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S |
| OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER OF |
| FACILITY REPRESENTATIVE: SIGNATURE) |

Canary - Sundance Acct #1

Re-order from: TOTALLY SHARP ADVERTISING • 432-586-5401 • www.PromoSupermarket.com

White - Sundance

Pink - Transporter

| P.O. Box 1737 Eunice, New N (575) 394-2511 | VICES, Inc. | TICKET No. | 395553 |
|---|---|--|---------------------------------------|
| DATE: 9 - 19-16 VEHICLE NO: Z | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | GENERATOR COMPANY MAN'S NAME: | 1506AMPM) T Jeiry 1390-661 |
| CHARGE TO: Vanavara | <u> </u> | | |
| [] Production Water [] Tank Bottoms [] Solids | [] Drilling Fluids [] Contaminated BS&W Content: | [] Rinsate | · • |
| Description: | | | |
| RRC or API # | | C-133# | Lea |
| VOLUME OF MATERIAL (ABBLS. 170 | AAY [] ** | D: | [] |
| AS A CONDITION TO SUNDANCE SER TICKET, OPERATOR/SHIPPER REPRESENTS MATERIAL EXEMPT FROM THE RESOURCE TO TIME, 40 U.S.C. § 6901, et seq., THE NA | S AND WARRANTS THAT | OVERY ACT OF 1976, AS AN 361,001 et seg., AND REG | MENDED FROM TIME JULATIONS RELATED |

THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUID ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

FACILITY REPRESENTATIVE:

White - Sundance

(SIGNATURE)

Canary - Sundance Acct #1

Pink - Transporter

Re-order from: TOTALLY SHARP ADVERTISING • 432-586-5401 • www.PromoSupermarket.com

| su: | P.O. Box 1737 Eunice, New M (575) 394-2511 | Mexico 882 <u>3</u> 1 ' | TICKET No.? 395610 |
|---|---|--|---|
| LEASE OPERATO | R/SHIPPER/COMPANY: VA | norwand Para | lian |
| LEASE NAME: | Hill Bo | HARI | |
| TRANSPORTER C | OMPANY: Parke | | TIME/2.05 AMYPM |
| DATE: 0 - 20 |) - / Lo VEHICLE NO: | 23 / GENERA | TOR COMPANY . T. Tervi |
| CHARGE TO: | Vanguard | | NAME 575-340-6612 |
| | | TYPE OF MATERIAL | |
| | [] Production Water | [] Drilling Fluids | [] Rinsate |
| | [] Tank Bottoms | [] Contaminated Soil | ✓ Jet Out |
| 1. | X Solids | [] BS&W Content: | [] Call Out |
| Descrip | tion: Solid | ς | |
| RRC or API # | | 1,00 | C-133# |
| RRCOTATT# | | | |
| VOLUME OF MA | TERIAL NBBLS. 35 | : [] YARD | : [] |
| TICKET, OF MATERIAL TO TIME, 44 THERETO, ASSOCIATI GEOTHERM ALSO AS TICKET. TO OPERATOR | PERATOR/SHIPPER REPRESENTS EXEMPT FROM THE RESOURCE, DU.S.C. § 6901, et seq., THE NM BY VIRTUE OF THE EXEMPTION, D WITH THE EXPLORATION, D MAL ENERGY. A CONDITION TO SUNDANCE S BANSPORTER REPRESENTS | CONSERVATION AND RECOVERY A HEALTH AND SAF. CODE § 361.00 AFFORDED DRILLING FLUIDS, PRO EVELOPMENT OR PRODUCTION (ERVICES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT ONLY | MATERIALS SHIPPED WITH THIS JOB STE MATERIAL SHIPPED HEREWITH IS CT OF 1976, AS AMENDED FROM TIME 1 et seq., AND REGULATIONS RELATED DDUCED WATERS, AND OTHER WASTE OF CRUDE OIL OR NATURAL GAS OR HE MATERIALS SHIPPED WITH THIS JOB OF THE MATERIAL DELIVERED BY RETER TO SUNDANCE SERVICES, INC.'S |

: Stephan Baheur

Canary - Sundance Acct #1

Re-order from: TOTALLY SHARP ADVERTISING • 432-586-5401 • www.PromoSupermarket.com

Pink - Transporter

FACILITY REPRESENTATIVE:

ATTACHMENT V Copy of Initial NMOCD Form C-141 Final NMOCD Form C-141

REVIEWED

By Kristen Lynch at 8:58 am, Sep 27, 2016

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

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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 Santa Fe, NM 87505

| | | | Rele | ease Notific | ation | and Co | rrective A | ction | Ì | | | |
|---|--|--|--|---|------------------------------------|--|---|----------------------------------|--|--|------------------------------|-----------------------------------|
| | | | | | OPERATOR Initial Report F | | | | | Final Report | | |
| Name of Company: Vanguard Operating, LLC | | | | | | Contact : Chuck Johnston | | | | | | |
| Address: 4001 Penbrook Suite 201 Odessa, TX 79762 | | | | | | Telephone No. 432-202-4771 Facility Type: Tank Battery | | | | | | |
| Facility Name: Hill 001 Tank Battery | | | | | | acility Typ | e: Tank Battery | | | | | |
| Surface Own | ner | | | Mineral O | wner | | | | API No | . 30-025-0 | 5394 | |
| | | | | | | OF REI | | | | | | |
| Unit Letter B | Section 04 | Township 21 S | Range 37E | Feet from the 3300 | North/ | h/South Line Feet from the East/ | | | Vest Line | County Lea | | |
| | | Latitud | le32.: | 5131683 | | Longitude | ,-103.165 | 0925_ | | _ | | |
| | | | | NAT | URE | OF RELI | EASE | | | | | |
| Type of Relea | ase: Oil and | Produced wa | terr | | - | Transfer of the Arrest Addition | Release: 100 bbls | 3 | | Recovered: 1 bbls of oil a | | s of produced |
| Source of Rel | lease: Light | ning struck ta | nk causing | g fire and spill | | Date and H 16-2016 | our of Occurrence | e:9- | | Hour of Dis | | |
| Was Immedia | ate Notice (| | Yes [| No Not Re | quired | If YES, To George wit | Whom? h OCD Hobbs | | | | | |
| By Whom? Jo | | | | 100 | | | our: 9-16-2016 7: | - | | | | |
| Was a Watero | course Read | | Yes [|] - N o | | If YES, Vo | lume Impacting th | he Wate | ercourse. | | | |
| If a Watercou | rse was Im | pacted, Descr | ibe Fully. | 1 | | | | | | | | |
| Describe Cause of Problem and Remedial Action Taken.* Lightning struck tank causing a fire which damaged all the tanks on site. Produced water and oil remained inside of the lined containment. Wells were shut in until weather permits repairs. | | | | | | | | | | | | |
| Describe Area Affected and Cleanup Action Taken.* Damage was to tank and equipment inside of containment. Tanks will be removed and replaced. Any contaminated soil above the liner will be remediated and the liner replaced if damaged. | | | | | | | | | | | | |
| regulations al public health should their o | l operators or the envir perations h ment. In a | are required to ronment. The ave failed to a ddition, NMC | report ar acceptance dequately CD accep | is true and compled/or file certain re- te of a C-141 reporting and re- investigate and re- tance of a C-141 re- | clease no rt by the emediate | tifications ar NMOCD ma contamination | nd perform correct arked as "Final Re on that pose a thre | ive acti port" de at to gr | ons for rele oes not reli ound water | eases which over the operation of the contract was a surface was | may en ator of er, hun | danger liability nan health |
| | 101 | 0 | 11 | | | | OIL CONS | SERV | ATION | <u>DIVISIO</u> | N | |
| Signature: | ht | pl | 4 | - | Н, | Approved by Environmental Specialist: | | | | | | |
| Printed Name | : Chuck Jo | hnston | | | F | approved by | Environmental Sp | retaiist | | Ü | | |
| Title: EHS | | , | | | A | approval Date | 9/27/2016 | E | Expiration I | Date: N/A | 12. | |
| E-mail Addre | ss: cjohnsto | on@vnrllc.com | | 75. 000 115- | c | Conditions of | Approval: N/A | | | Attached | | |
| Date: 9-19-2 | Charles and the Control of the Contr | ate If Negaco | | 35\202-477 Phone: | 1 | | | | - | 1RP | 4450 | |

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II
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**

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 | | | | | | |
| Name of Company: Vanguard Address: 4001 Penbrook, Suite 201, Odessa Texas 79762 | | | | | | Contact: Chuck Johnston | | | | | | | |
| | | 1 Tank Batt | | | | | No. 432-202-47 | | | _ | | | |
| | | Tunk Duk | ,, 114 | | | - denity i | ype. Tunk Buiter | , | T . = | | | | |
| Surface Ow | ner: | | | Mineral C |)wner: | | | | API No | . 30-02 | 5-06394 | | |
| | | | | | | | LEASE | | | | | | |
| Unit Letter B | Section 4 | Township 21S | Range 37E | Feet from the 3300 | | th/South Line Feet from the East/West Line North 1700 East | | | e County Lea | | | | |
| Latitude: N 32.5131683° Longitude: W 103.1650925° | | | | | | | | | - | | | | |
| T (D.) | 6'1 | 125 1 1111 | | NATU | JRE C | FREL | | . 1 | | | 1 | | |
| Type of Rele | ase: Oil and | d Produced W | ater | | | | of Release: 100 bb d 15 bbls oil | IS | | | d: 100 bbls pro and rain water | duced | |
| | | | ınk causin | g fire and spill | | 9-16-20 | | ce: | | Hour of | Discovery: | · | |
| Was Immedia | ate Notice C | | Yes | No Not Re | equired | | Fo Whom? vith OCD Hobbs | | | | | | |
| By Whom? J | | 1 10 | | | | | Hour: 9-16-2016 | | | | | | |
| Was a Water | course Reac | | Yes 🛛 | No | | If YES, Volume Impacting the Watercourse: Not Applicable | | | | | | | |
| If a Watercou | rse was Im | | | Not Applicable | | 1 7 | APPRO | /ED | | | | | |
| | | , | | · · · · · · · · · · · · · · · · · · · | | | APPNOI By Olivia ` | | | am | Jun 28. | 2017 | |
| Describe Cau | se of Proble | m and Remed | lial Action | Taken.* | | | by Onvia | ra ac | | arri, | | | |
| Lightning str were shut in | | | | naged all the tan | ks on sit | e. Produc | ed water and oil re | emained | inside of t | he lined | containment. | Wells | |
| Describe Are | a Affected : | ınd Cleanun A | ction Tak | en.* | | | | | | | | | |
| Damage was | to tank and | equipment in: | side of cor | itainment. Tanks | will be re | emoved ar | d replaced. Any co | ntamina | ted soil abo | ve the li | ner will be rem | ediated_ | |
| and the liner of further action | replaced if or required at | lamaged. Sam this site. | ples were | collected and sen | it to the l | ab for test | ng, Based on labor | ratory and | alytical data | a, NMO | CD has approve | d no | |
| I hereby certi | fy that the is | nformation gi | ven above | is true and comp | lete to th | e best of n | y knowledge and i | understar | nd that purs | uant to N | MOCD rules a | ınd | |
| regulations al | l operators | are required to | report an | d/or file certain re | elease no | tifications | and perform corre | ctive acti | ions for rela | ases wh | ich may endang | ger | |
| should their o | or the envir | onment. The ave failed to a | acceptanc dequately | e of a C-141 repo | rt by the emediate | contamin | marked as "Final F ition that pose a th | keport" d reat to er | ioes not reli round water | eve the c | perator of liabi | lity health | |
| or the enviror | iment. In a | ddition, NMO | CD accep | tance of a C-141 | report do | es not reli | eve the operator of | responsi | bility for co | omplianc | e with any other | :г | |
| federal, state, | or local lav | vs and/or regu | lations. | | | OIL CONCERNATION DIVIGION | | | | | | | |
| | | 111 | 14 | | | OIL CONSERVATION DIVISION | | | | | | | |
| Signature: M | | | | | | | | | 94 | _ | | | |
| Printed Name | : Chuck Joh | ınston | | | ^ | Approved I | y Environmental S | pecialist | i: (| | | | |
| Title; EHS | | | | | A | Approval I | 6/28/201 | 7 | Expiration 1 | Date: X | x/xx/xxxx | | |
| E-mail Addre | ss: cjohnsto | on@vnrllc.com | า | | | Conditions | of Approval: | | | Attacl | ned 🗌 | | |
| Date: /- | 23-17 | 7 | Phone: | 432-202-4771 | | | | | | 7.11461 | | | |
| Attach Additio | | | | | | | 4.5 | P-11 | 5 0 | - | | | |