NMOCD approves 1RP-4817 for closure.

REMEDIATION SUMMARY AND

RISK-BASED SITE CLOSURE REQUEST

Vanguard Operating, LLC ABO SWD #2 Lea County, New Mexico Unit Letter "C", Section 2, Township 17 South, Range 36 East Latitude 32.868700° North, Longitude -103.326070° West NMOCD Reference No. 1RP-4817

Prepared For:

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

Prepared By:

TRC Environmental Corporation 10 Desta Drive, Suite 150E Midland, Texas 79705

August 10, 2018

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Joel Lowry Project Manager

Cindy Crain Senior Project Manager

TABLE OF CONTENTS

INTRODUCTION & BACKGROUND INFORMATION	1
SITE CHARACTERIZATION AND WORKPLAN	2
SUMMARY OF SOIL REMEDIATION ACTIVITIES	3
SITE CLOSURE REQUEST	4
LIMITATIONS	5
DISTRIBUTION	6

FIGURES

Figure 1 – Site Location Map Figure 2 – Site & Sample Location Map

TABLES

Table 1 - Concentrations of Benzene, BTEX, TPH and Chloride in Soil

APPENDICES

- Appendix A Laboratory Analytical Reports
- Appendix B Photographic Log
- Appendix C Disposal Manifests
- Appendix D Release Notification and Corrective Action (Form C-141)

INTRODUCTION & BACKGROUND INFORMATION

TRC Environmental Corporation (TRC), on behalf of Vanguard Operating, LLC (Vanguard), has prepared this *Remediation Summary and Risk-Based Soil Closure Request* for the Site known as ABO SWD #2. The legal description of the Site is Unit Letter "C", Section 2, Township 17 South, Range 36 East, in Lea County, New Mexico. The subject property is owned by the State of New Mexico and administered by New Mexico State Land Office (NMSLO). The GPS coordinates for the site are N 32.868700° W 103.326070°. Please reference Figure 1 for the Site Location Map and Figure 2 for the Site & Sample Location Map.

On September 19, 2017, Vanguard submitted a Release Notification and Corrective Action (Form C-141) to the New Mexico Oil Conservation Division (NMOCD) notifying them of a historic produced water release discovered at the ABO SWD #2 Facility. The affected areas measured a combined total of approximately twelve thousand, five hundred (12,500) square feet (sq. ft.). A copy of the Form C-141 is provided in Appendix D.

A groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) suggested the average depth to groundwater in Section 2, Township 17 South, Range 36 East is approximately eighty (80) feet (ft) below ground surface (bgs). The original workplan dated August 2018, suggested groundwater should be encountered at approximately sixty-nine (69) ft bgs. Based on the NMOCD site classification system, ten (10) points will be assigned to the subject area ranking as a result of this criterion.

No water wells were observed within one-thousand (1,000) feet of the Release Site. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion.

No surface water was observed within one-thousand (1,000) feet of the release. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion.

The NMOCD guidelines indicate the ABO SWD #2 Release Site has a ranking score of ten (10). Recommended Remediation Action Levels (RRAL) for a site with a ranking score of ten (10) points are as follows:

- Benzene 10 mg/kg
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) 50 mg/kg
- Total Petroleum Hydrocarbons (TPH) 1,000 mg/kg
- Chloride 600 mg/kg

SITE CHARACTERIZATION AND WORKPLAN

Between June 16 and 28, 2017, an environmental contractor for Vanguard conducted an initial investigation at the site. During the initial investigation, a series of soil bores (SP1 through SP13) were advanced within the affected area in an effort to determine the vertical and horizontal extent of soil impacts. During the advancement of the soil bores, seventy (70) delineation soil samples were collected and field screened for vapor organic compounds utilizing a Photo-Ionization Detector (PID) and for concentrations of chloride utilizing a chloride field titration kit. Select soil samples [SP 1 (Surface), SP1 (26'), SP 2 (Surface), SP2 (10'), SP3 (Surface), SP3 (18'), SP4 (Surface), SP4 (2'), SP5 (Surface), SP5 (10'), SP6 (Surface), SP6 (10'), SP7 (Surface), SP7 (28'), SP8 (Surface), SP8 (16'), SP9 (Surface), SP9 (4'), SP10 (Surface), SP10 (26'), SP11 (Surface), SP11 (18'), SP12 (Surface), SP12 (14'), SP13 (Surface), SP13 (14')] were submitted to Cardinal Laboratories in Hobbs, New Mexico for analysis of benzene, BTEX, TPH and chloride concentrations using EPA SW-846 Methods 8021B, 8015M, and 4500 CL-B, respectively. Laboratory analytical results indicated benzene and BTEX concentrations were below the applicable laboratory reporting limit (RL) in each of the submitted soil samples. Analytical results indicated TPH concentrations were below the NMOCD RRAL in each of the submitted soil samples with the exception of SP3 (Surface), SP4 (Surface), SP6 (Surface), SP7 (Surface) and SP9 (Surface). Chloride concentrations were below the NMOCD RRAL in each of the submitted soil samples with the exception of SP1 (Surface), SP3 (Surface), SP6 (Surface), SP7 (Surface), SP8 (Surface), SP9 (Surface), SP9 (4'), SP10 (Surface), SP11 (Surface), SP12 (Surface) and SP13 (Surface). Soil sample locations are depicted in Figure 2 - Site & Sample Location Map. Laboratory analytical results are summarized in Table 1 - Concentrations of Benzene, BTEX, TPH and Chloride in Soil. Laboratory analytical reports are provided in Appendix A.

In August 2017, Vanguard submitted a *Site Characterization and Work Plan (Workplan)* to the NMOCD and NMSLO, proposing the following remediation activities designed to advance the site toward an approved closure:

- Excavate impacted soil in the areas characterized by soil points SP1, SP3, SP4, SP5 and SP6 to a depth of two (2) feet (ft.) bgs; the areas characterized by soil points SP7 and SP8 to a depth of two (2) ft. bgs; the area characterized by soil point SP9 to a depth of four (4) ft. bgs; the areas characterized by soil points SP10, SP11, SP12 and SP13 to a depth of two (2) ft. bgs
- Upon excavating impacted soil from within the release margins, install a twenty (20)millimeter poly-ethylene liner on the floor of the excavation in the areas characterized by SP1 and SP9.
- Impacted soil excavated from the release site will be transported under manifest to an NMOCD-approved disposal facility
- Backfill the excavation with locally sourced, non-impacted "like" material
- Affected areas will be contoured to blend with existing pad area and protected against wind/water erosion
- Upon completion of remediation activities, Prepare and submit a "Remediation Summary and Site Closure Request" to the NMOCD and NMSLO

The *Workplan* was subsequently approved with the condition that further delineation be conducted in the areas characterized by sample points SP4 and SP9.

SUMMARY OF SOIL REMEDIATION ACTIVITIES

On June 15, 2018, remediation activities commenced at the release site. Impacted soil within the release margins was excavated and stockpile on-site, pending final disposition.

On June 18, 2018, in accordance with the NMOCD, TRC advanced two (2) test trenches (SP-4 and SP-9) at the site. Test trench SP-4 was advanced in the area represented by sample point SP4. During the advancement of the test trench, two (2) soil samples (SP-4 @ 3' and SP-4 @ 4') were collected and submitted to Xenco Laboratories of Midland, Texas, for analysis of chloride concentrations in accordance with EPA Method E300. Laboratory analytical results indicated soil samples SP-4 @ 3' and SP-4 @ 4' exhibited chloride concentrations of 129 mg/kg and 137 mg/kg, respectively.

Test trench SP-9 was advanced in the area represented by sample point SP9. During the advancement of the test trench, two (2) soil samples (SP-9 @ 5' and SP-9 @ 6') were collected and submitted to the laboratory for analysis of chloride concentrations in accordance with EPA Method E300. Laboratory analytical results indicated soil samples SP-9 @ 5' and SP-9 @ 6'exhibited chloride concentrations of 154 mg/kg and 112 mg/kg, respectively.

On June 20, 2018, TRC collected thirteen (13) excavation confirmation soil samples [CE NSW (1.5'), CE ESW (1.5'), CE WSW (1.5'), SSW #1 (1.5'), SSW #2 (1.5'), SSW #3 (1.5'), WSW #1 (1.5'), WSW #2 (1.5'), NSW #2 (1.5'), NSW #2 (1.5'), ESW #1 (1.5') and ESW #2 (1.5')] from the sidewalls of the excavated area and submitted them to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH concentrations were below the NMOCD RRAL in each of the submitted soil samples, with the exception of soil samples CE WSW (1.5') and WSW #2 (1.5'), which exhibited TPH concentrations of 1,066 mg/kg and 2,355.3 mg/kg, respectively. Chloride concentrations were below the NMOCD RRAL in each of the submitted soil sample CE NSW (1.5'), which exhibited a chloride concentration of 629 mg/kg. The excavation was advanced in the areas characterized by soil samples CE WSW (1.5'), WSW #2 and CE NSW (1.5').

One June 28, 2018, TRC collected four (4) excavation confirmation soil samples (NW Floor @ 2', SW Floor @ 2', CE Floor @ 2' and SE Floor @ 3') from the floor of the excavated areas and submitted them to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH and chloride concentrations were below the NMOCD RRAL in each of the submitted soil samples with the exception of soil samples SW Floor @ 2', which exhibited a TPH concentration of 3,874.3 mg/kg. The excavation was advanced in the area characterized by soil sample SW Floor @ 2'.

In addition, three (3) excavation confirmation soil samples [WSW #2b (1'), CE WSWb (1') and CE NSW (1')] were collected from the excavation sidewalls and submitted to the laboratory for analysis. Soil sample WSW #2b (1') and CE WSWb (1') were analyzed for concentrations of TPH, which were determined to be below the NMOCD RRAL. Soil sample CE NSW (1') was analyzed for concentration of chloride, which were determined to be below the NMOCD RRAL.

Upon collecting the requisite excavation confirmation soil samples, a twenty (20)-millimeter polyethylene liner was installed on the floor of the excavation in the areas characterized by sample points SP1 and SP9. An approximate six (6)-inch layer of pad sand was installed above and below the liner in an effort to maintain the liner's integrity during backfilling activities.

On July 17, 2018, TRC collected one (1) excavation confirmation soil sample [SW Floor (3')] from the floor of the excavation in the area characterized by soil sample SW Floor @ 2. The collected soil sample was submitted to the laboratory for analysis of TPH concentrations, which were determined to be below the NMODC RRAL.

Upon receiving laboratory analytical results from confirmation soil samples, the excavated areas were backfilled with locally sourced, non-impacted "like" material. Excavation backfill was waterpacked and graded to meet the needs of the production facility. Prior to backfilling, the final dimensions of the excavated area in the southwestern portion of the facility were approximately one hundred and sixty (160) ft. in length, thirty (30) to forty (40) ft. in width, and one and two (2) to three (3) ft. in depth. The final dimensions of the excavated area in the southeastern portion of the facility were approximately eighty (80) ft. in length, sixty (60) to seventy (70) ft. in width, and one and three (3) to four (4) ft. in depth. The final dimensions of the excavated area in the central portion of the facility were approximately seventy (70) ft. in length, thirty (30) ft. in width, and one and three (3) to four (4) ft. in depth. The final dimensions of the excavated area in the central portion of the facility were approximately seventy (70) ft. in length, thirty (30) ft. in width, and one and three (2) to four (4) ft. in depth.

Between June 21 and July 17, 2018, approximately one thousand, three hundred twelve (1,312) cubic yards (cy) of impacted soil was transported to R360 Environmental Solutions, LLC for disposal. Copies of the disposal manifest are provided in Appendix C.

SITE CLOSURE REQUEST

Remediation activities were conducted in accordance with an approved *Workplan*. Impacted soil within the release margins was excavated to the maximum extent practicable and transported to an approved disposal facility. Upon collecting the requisite soil samples and receiving laboratory analytical results from confirmation soil samples, a twenty (20)-millimeter poly-ethylene liner was installed on the floor of the excavation atop impacted soil affected above the NMODC RRAL in the areas characterized by sample points SP1 and SP9. Based on laboratory analytical results and field activities conducted to date, TRC recommends Vanguard provide copies of this *Remediation Summary and Risk-Based Soil Closure Request* to the NMOCD and BLM and request closure status to the ABO SWD #2.

LIMITATIONS

TRC has prepared this Remediation Summary and Site Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

TRC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. TRC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. TRC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Vanguard Operating, LLC. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of TRC and/or Vanguard Operating, LLC.

DISTRIBUTION

Copy 1: Olivia Yu New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 1 1625 French Drive Hobbs, New Mexico 88240 Copy 2: Ryan Mann Hobbs Field Office New Mexico State Land Office 2827 N. Dal Paso Suite 117 Hobbs, New Mexico 88240 Copy 3: Chuck Johnston Vanguard Operating, LLC 4001 Penbrook, Suite 201 Odessa, Texas 79762 Copy4: TRC Environmental Corporation 10 Desta Drive, Suite 150E Midland, Texas 79705





TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

VANGUARD OPERATING, LLC ABO SWD #2 LEA COUNTY, NEW MEXICO NMOCD REFERENCE No. 1RP-4817

All concentrations are reported in mg/kg

	1	r	1			All concentrat	ions are reporte	a in mg/kg						
SAMPLE LOCATION	SAMPLE	SOIL			HODS: SW 846 ETHYL-	TOTAL	TOTAL	TPH GRO	TPH DRO	TPH OPO	5M TOTAL TPH	TOTAL TPH	E 300.1	SM4500CI-B
SAMILE LOCATION	DATE	STATUS	BENZENE	TOLUENE	BENZENE	XYLENES	BTEX	C6-C10	C10-C28	C28-C35	C6-C28	C6-C35	CHLORIDE	CHLORIDE
SP1 (Surface)	06/19/17	Excavated	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	74.9		74.9	-	-	5,680
SP1 (26')	06/19/17	Risked	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	-	<10.0	-	-	96.0
SP2 (Surface)	06/19/17	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	192	-	192	-	-	416
SP2 (10')	06/19/17	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	-	<10.0	-	-	96.0
		-							-	-				
SP3 (Surface)	06/19/17	Excavated	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<50.0	1,550	-	1,550	-	-	3,120
SP3 (18')	06/19/17	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	-	<10.0	-	-	112
	1	1	1	1		1		1	•	1	1	1	1	
SP4 (Surface)	06/19/17	Excavated	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<50.0	13,700	-	13,700	-	-	464
SP4 (2')	06/19/17	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	647	-	647	· ·	-	144
CDF (Confrac)	06/20/17	L C'm	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	207	-	207		-	256
SP5 (Surface) SP5 (10')	06/20/17	In-Situ In-Situ	<0.030	<0.050	<0.050	<0.150 <0.150	< 0.300	<10.0 <10.0	207 <10.0	-	<10.0	-	-	64.0
SF5 (10)	00/20/17	III-Situ	<0.030	<0.030	<0.030	<0.130	<0.300	<10.0	<10.0		<10.0	-	-	04.0
SP6 (Surface)	06/20/17	Excavated	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<50.0	6,250		6,250			640
SP6 (10')	06/20/17	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0		<10.0	-	-	48.0
SP7 (Surface)	06/20/17	Excavated	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	1,870	-	1,870	-	-	21,600
SP7 (28')	06/20/17	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	-	<10.0	-	-	16.0
<u> </u>	•									•				
SP8 (Surface)	06/20/17	Excavated	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	25.6	-	25.6	-	-	640
SP8 (16')	06/20/17	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	-	<10.0	-	-	32.0
SP9 (Surface)	06/23/17	Excavated	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<50.0	1180	-	1,180	-	-	2,800
SP9 (4')	06/23/17	Risked	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	-	<10.0	-	-	1,280
	1	1	1	1		1		T.		1	r	T.		
SP10 (Surface)	06/27/17	Excavated	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	-	<10.0	-	-	896
SP10 (26')	06/27/17	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	-	<10.0		-	528
		- ·							L	1			1	
SP11 (Surface) SP11 (18')	06/28/17	Excavated	< 0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	49.0	-	49.0	-	-	6,320
SP11 (18)	06/28/17	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	-	<10.0		-	32.0
SP12 (Surface)	06/28/17	Excavated	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	50.3	1	50.3	· ·	1	6,160
SP12 (Surface) SP12 (14')	06/28/17	In-Situ	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	-	<10.0		-	48.0
5112(14)	00/28/17	in-Situ	<0.050	<0.050	~0.050	<0.150	~0.300	<10.0	<10.0		<10.0	· ·	-	48.0
SP13 (Surface)	06/28/17	Excavated	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	49.9	· ·	49.9	· ·	-	5,040
SP13 (14')	06/28/17	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	-	<10.0	-	-	160
SP-4 @ 3'	06/18/18	In-Situ	-	-	-	-	-	-	-	-	-	-	129	-
SP-4 @ 4'	06/18/18	In-Situ	-	-	-	-	-	-	-	-	-	-	137	-
SP-9 @ 5'	06/18/18	Risked	-	-	-	-	-	-	-	-	-	-	154	-
SP-9 @ 6'	06/18/18	Risked	-	-	-	-	-	-	-	-	-	-	112	-
	-	1	1	1	-		-	•		1		•		
CE NSW (1.5')	06/20/18	Excavated	-	-	-	-	-	<3.94	30.8	<24.8	-	30.8	629	-
CE ESW (1.5')	06/20/18	In-Situ	-	-	-	-	-	<3.71	<25.2	<25.2	-	<25.2	229	-
CE WSW (1.5')	06/20/18	Excavated	-	-	-	-	-	<8.00	868	198	-	1,066	547	-
SSW #1 (1.5')	06/20/18	In-Situ	-	-	-	-	-	<3.75	196	176	-	372	<25.0	-
SSW #2 (1.5') SSW #3 (1.5')	06/20/18	In-Situ	-	-	-	-	-	<3.90	<25.0	<25.0 <25.2	-	<25.0	399	
SSW #3 (1.5') WSW #1 (1.5')	06/20/18 06/20/18	In-Situ In-Situ	-	-	-	-	-	<3.66 <3.77	38.1 249	<25.2	-	38.1 375	99.6 93.4	-
WSW #1 (1.5') WSW #2 (1.5')	06/20/18	Excavated	-	-	-	-	-	24.3	1,890	441	-	2,355.3	93.4	-
NSW #1 (1.5')	06/20/18	In-Situ	-	-	-	-	-	<3.79	26.1	25.3	-	51.4	491	
NSW #2 (1.5')	06/20/18	In-Situ	-	-	-	_	-	<3.79	94.2	33.8	-	128	128	
NSW #3 (1.5')	06/20/18	In-Situ	-	-	-	-	-	<3.98	<25.2	<25.2	-	<25.2	120	-
ESW #1 (1.5')	06/20/18	In-Situ	-	-	-	-	-	<3.96	<25.0	<25.0	-	<25.0	447	-
ESW #2 (1.5')	06/20/18	In-Situ	-	-	-	-	-	<3.65	<24.8	<24.8	-	<24.8	545	-
										•				
NW Floor @ 2'	06/28/18	In-Situ	-	-	-	-	-	<15.0	92.6	26.7	-	119.3	154	-
SW Floor @ 2'	06/28/18		-	-	-	-	-	19.3	3750	105	-	3874.3	436	-
CE Floor @ 2'	06/28/18	In-Situ	-	-	-	-	-	<15.0	24.8	<15.0	-	24.8	494	-
SE Floor @ 3'	06/28/18	In-Situ	-	-	-	-	-	<15.0	104	<15.0	-	104	412	-
		_									-			
WSW #2b (1')	06/28/18	In-Situ	-	-	-	-	-	<15.0	<15.0	<15.0	-	<15.0	-	-
CE WSWb (1')	06/28/18	In-Situ	-	-	-	-	-	<15.0	131	24.1	-	151.1	-	-
CE NSW (1')	06/28/18	In-Situ	-	-	-	-	-	· ·	-	•	-	· ·	342	•
SW El (20)	07/17/18	Engel 1						<14.0	<14.0	<14.0		<14.0		
SW Floor (3')	0//1//18	Excavated	-	-	-	-	-	<14.9	<14.9	<14.9	-	<14.9	-	-
NMOCD Site Classification	1	1							1	1				
Criteria		-	10	-	-	-	50	-	-	-	1,	D00	60	00



July 03, 2017

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

RE: ABO SWD #2

Enclosed are the results of analyses for samples received by the laboratory on 06/28/17 16:00.

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.

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. Keine

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:	06/28/2017	Sampling Date:	06/19/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 1 (SURFACE) (H701703-01)

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	06/29/2017	ND	2.16	108	2.00	1.42	
Toluene*	<0.050	0.050	06/29/2017	ND	1.96	98.2	2.00	1.95	
Ethylbenzene*	<0.050	0.050	06/29/2017	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/29/2017	ND	6.08	101	6.00	1.31	
Total BTEX	<0.300	0.300	06/29/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9 9	% 72-148	,						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	06/30/2017	ND	432	108	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	06/29/2017	ND	184	91.9	200	1.76	
DRO >C10-C28	74.9	10.0	06/29/2017	ND	180	90.2	200	3.77	
Surrogate: 1-Chlorooctane	100 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	106 %	6 34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/28/2017	Sampling Date:	06/19/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 1 (26') (H701703-02)

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	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/30/2017	ND	432	108	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	06/29/2017	ND	184	91.9	200	1.76	
DRO >C10-C28	<10.0	10.0	06/29/2017	ND	180	90.2	200	3.77	
Surrogate: 1-Chlorooctane	96.9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	92.7	34.7-15	7						

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Received:	06/28/2017	Sampling Date:	06/19/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 2 (SURFACE) (H701703-03)

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	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/30/2017	ND	432	108	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	06/29/2017	ND	184	91.9	200	1.76	
DRO >C10-C28	192	10.0	06/29/2017	ND	180	90.2	200	3.77	
Surrogate: 1-Chlorooctane	84.5	28.3-16	4						
Surrogate: 1-Chlorooctadecane	103 9	6 34.7-15	7						

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Received:	06/28/2017	Sampling Date:	06/19/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 2 (10') (H701703-04)

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	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 72-148	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/30/2017	ND	432	108	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	06/29/2017	ND	184	91.9	200	1.76	
DRO >C10-C28	<10.0	10.0	06/29/2017	ND	180	90.2	200	3.77	
Surrogate: 1-Chlorooctane	98.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	104 9	34.7-15	7						

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Received:	06/28/2017	Sampling Date:	06/19/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 3 (SURFACE) (H701703-05)

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	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	06/30/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/29/2017	ND	184	91.9	200	1.76	
DRO >C10-C28	1550	50.0	06/29/2017	ND	180	90.2	200	3.77	
Surrogate: 1-Chlorooctane	71.9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	164 9	34.7-15	7						

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Received:	06/28/2017	Sampling Date:	06/19/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 3 (18') (H701703-06)

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	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	6 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/30/2017	ND	432	108	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	06/29/2017	ND	184	91.9	200	1.76	
DRO >C10-C28	<10.0	10.0	06/29/2017	ND	180	90.2	200	3.77	
Surrogate: 1-Chlorooctane	101 9	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	95.6	34.7-15	7						

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Received:	06/28/2017	Sampling Date:	06/19/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 4 (SURFACE) (H701703-07)

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	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5 9	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/30/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/29/2017	ND	184	91.9	200	1.76	
DRO >C10-C28	13700	50.0	06/29/2017	ND	180	90.2	200	3.77	
Surrogate: 1-Chlorooctane	104 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	524 %	6 34.7-15	7						

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Received:	06/28/2017	Sampling Date:	06/19/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 4 (2') (H701703-08)

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	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 72-148	}						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/30/2017	ND	432	108	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	06/29/2017	ND	205	103	200	2.25	
DRO >C10-C28	647	10.0	06/29/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	82.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	115 9	% 34.7-15	7						

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Received:	06/28/2017	Sampling Date:	06/20/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 5 (SURFACE) (H701703-09)

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	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9 9	% 72-148	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/30/2017	ND	432	108	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	06/29/2017	ND	205	103	200	2.25	
DRO >C10-C28	207	10.0	06/29/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	90.4 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	122 %	6 34.7-15	7						

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Received:	06/28/2017	Sampling Date:	06/20/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 5 (10') (H701703-10)

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	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 72-148	2						
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	06/30/2017	ND	432	108	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	06/29/2017	ND	205	103	200	2.25	
DRO >C10-C28	<10.0	10.0	06/29/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	111 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	111 %	6 34.7-15	7						

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Received:	06/28/2017	Sampling Date:	06/20/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 6 (SURFACE) (H701703-11)

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	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	06/30/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/29/2017	ND	205	103	200	2.25	
DRO >C10-C28	6250	50.0	06/29/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	68.6	28.3-16	4						
Surrogate: 1-Chlorooctadecane	225 9	6 34.7-15	7						

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Received:	06/28/2017	Sampling Date:	06/20/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 6(10') (H701703-12)

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	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/30/2017	ND	432	108	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	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	99.0 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	101 %	6 34.7-15	7						

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Received:	06/28/2017	Sampling Date:	06/20/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 7(SURFACE) (H701703-13)

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	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21600	16.0	06/30/2017	ND	432	108	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	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	1870	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	99.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	139 9	34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/28/2017	Sampling Date:	06/20/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 7 (28') (H701703-14)

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	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 72-148	2						
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	06/30/2017	ND	432	108	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	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	96.7	28.3-16	4						
Surrogate: 1-Chlorooctadecane	106 9	34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/28/2017	Sampling Date:	06/20/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 8 (SURFACE) (H701703-15)

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	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	06/30/2017	ND	432	108	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	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	25.6	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	75.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	83.0	% 34.7-15	7						

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Received:	06/28/2017	Sampling Date:	06/20/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 8 (16') (H701703-16)

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	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 72-148	2						
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	06/30/2017	ND	432	108	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	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	102 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	108 9	34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/28/2017	Sampling Date:	06/23/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 9 (SURFACE) (H701703-17)

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	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 72-148	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	06/30/2017	ND	432	108	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	<50.0	50.0	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	1180	50.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	68.0	28.3-16	4						
Surrogate: 1-Chlorooctadecane	146 9	34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/28/2017	Sampling Date:	06/23/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 9 (4') (H701703-18)

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	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 72-148	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	06/30/2017	ND	432	108	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	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	98.8 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	104 %	6 34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/28/2017	Sampling Date:	06/27/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 10 (SURFACE) (H701703-19)

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	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 72-148	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	06/30/2017	ND	432	108	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	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	102 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	109 9	34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/28/2017	Sampling Date:	06/27/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 10 (26') (H701703-20)

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	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 72-148	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	06/30/2017	ND	464	116	400	7.14	
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	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	103 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	110 9	6 34.7-15	7						

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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:	06/28/2017	Sampling Date:	06/28/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 11 (SURFACE) (H701703-21)

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	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	06/30/2017	ND	464	116	400	7.14	
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	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	49.0	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	97.7 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	109 %	34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/28/2017	Sampling Date:	06/28/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 11 (18') (H701703-22)

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	06/30/2017	ND	2.03	101	2.00	1.74	
Toluene*	<0.050	0.050	06/30/2017	ND	1.95	97.5	2.00	2.08	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.13	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.28	105	6.00	0.866	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 72-148	2						
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	06/30/2017	ND	464	116	400	7.14	
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	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	102 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	106 9	34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/28/2017	Sampling Date:	06/28/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 12 (SURFACE) (H701703-23)

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	06/30/2017	ND	2.03	101	2.00	1.74	
Toluene*	<0.050	0.050	06/30/2017	ND	1.95	97.5	2.00	2.08	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.13	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.28	105	6.00	0.866	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9 9	% 72-148							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6160	16.0	06/30/2017	ND	464	116	400	7.14	
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	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	50.3	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	99.1	28.3-16	4						
Surrogate: 1-Chlorooctadecane	110 %	6 34.7-15	7						

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Received:	06/28/2017	Sampling Date:	06/28/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 12 (14') (H701703-24)

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	06/30/2017	ND	2.03	101	2.00	1.74	
Toluene*	<0.050	0.050	06/30/2017	ND	1.95	97.5	2.00	2.08	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.13	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.28	105	6.00	0.866	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 72-148	2						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/30/2017	ND	464	116	400	7.14	
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	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	91.3 9	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	95.2 9	6 34.7-15	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


Analytical Results For:

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

Received:	06/28/2017	Sampling Date:	06/28/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 13 (SURFACE) (H701703-25)

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	06/30/2017	ND	2.03	101	2.00	1.74	
Toluene*	<0.050	0.050	06/30/2017	ND	1.95	97.5	2.00	2.08	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.13	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.28	105	6.00	0.866	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 72-148	2						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	06/30/2017	ND	464	116	400	7.14	
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	06/30/2017	ND	196	98.0	200	2.17	
DRO >C10-C28	49.9	10.0	06/30/2017	ND	208	104	200	2.05	
Surrogate: 1-Chlorooctane	68.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	79.8	% 34.7-15	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	06/28/2017	Sampling Date:	06/28/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: SP 13 (14') (H701703-26)

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	06/30/2017	ND	2.03	101	2.00	1.74	
Toluene*	<0.050	0.050	06/30/2017	ND	1.95	97.5	2.00	2.08	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.13	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.28	105	6.00	0.866	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 72-148	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/30/2017	ND	464	116	400	7.14	
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	06/30/2017	ND	196	98.0	200	2.17	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	208	104	200	2.05	
Surrogate: 1-Chlorooctane	90.5 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	91.3 9	34.7-15	7						

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Celeg D. Keine

Celey 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.
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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Inental Plus, Inc. P.O. Box 1558, Eunice, NM 88231 FAX: (57) 394-2601 Fervironmental Plus, Inc. Bill To Eunice, NM 88231 Fervironmental Plus, Inc. Bill To Eunice New Mexico 88231 Fervironmental Plus, Inc. Bill To Vanguard For. Box 1558, Eunice New Mexico 88231 Fervironmental Plus, Inc. Bill To Wanguard For. Box 1568, Eunice New Mexico 88231 Fervironmental Plus, Inc. Bill To Wanguard Name State New Mexico 88231 Fervironmental Plus, Inc. Bill To Wanguard Vanguard For. Box 1588, Eunice Num Reserviron P.O. Box 1588, Eunice Num Reserviron P.O. Box 1588, Eunice Num Reserviron Inne Dustin Crockett MATRIX PRESErviron SAMPLE I.D. P.O. Box 1588, Eunice Num Reserviron Ispel (Surface) G 1 X Interviron P.O. Box 1568 Signe (Surface) G 1 X Interviron Name Ispel (Surface) G 1 X Interviron X X Ispel (Surface) G 1 X <td< th=""><th>Sampler Relinquished:</th><th></th><th></th><th></th><th></th><th></th><th>1</th><th></th><th></th><th></th><th></th><th>LABI.D.</th><th>EPI Sampler Name</th><th>Project Reference</th><th>Location</th><th>Facility Name</th><th>Client Company</th><th>EPI Phone#/Fax#</th><th>City, State, Zip</th><th>Mailing Address</th><th>EPI Project Manager</th><th>Company Name</th><th>(575) 394-3481</th><th>2100 Avenue O,</th><th>Environ</th></td<>	Sampler Relinquished:						1					LABI.D.	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,	Environ
Box 1558, Eunice, NM 88231 Bill To Atm: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231 P.O. Box 1558 Eunice, NM 88231 P.O. Box 1558 Eunice, NM 88231 PRESERV. SAMPLING Atm: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231 I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IU SP3 (TUT)	10 SP5 (10')			7 SP4 (Surface)		5 SP3 (Surface)	4 SP2 (10')			1 SP1 (Surface)	SAMPLE I.D.						575-394-3481 /			ager		FAX: (575) 394-2601	Eunice, NM 88231	
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Page 1 of 3

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Time 6-26-17 Received W	20		18 SP9 (4")	7 SP9 (Surface)				2 SD7 (Surface)	12 SP6 (10')	I SP6 (Surface)	SAMPLE I.D.		me Dustin Crockett		UL- C Sec. 2, T17S,	ABO SWD #2	Vanguard	¥ 575-394-3481 / 575-394-2601	Eunice New Mexico	P.O. BOX 1558		Environmental Plus, Inc.	FAX: (575) 394-2601		nontal Plue Inc	
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Page 2 of 3

Client Company Vanguard Facility Name ABO SWD #2 Location UL- C Sec. 2, T17S, R36E Project Reference David Robinson EPI Sampler Name David Robinson IAB I.D. LAB I.D. IAB I.D. SAMPLE I.D. IAB I.D. SP10 (Surface) IAB SP11 (Surface) G IAB SP13 (Surface) G	x# 575-394-3481 / 575-3			s	ayer	ager	Company Name		, Euni		me	
	394-	Ŷ	v Mexico	P.O. BOX 1558	DOY 1558	Daniel Dominguez	Environmental Plus,	FAX: (575) 394-2007	2100 Avenue O, Eunice, NM 00231	23	Environmental Plus. Inc.	
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Page 3 of 3



Project Id: Contact: Joel Lowry

Project Location:

Certificate of Analysis Summary 589613

TRC Solutions, Inc, Midland, TX Project Name: ABO SWD 2



Date Received in Lab:Tue Jun-19-18 10:15 amReport Date:26-JUN-18Project Manager:Kelsey Brooks

	Lab Id:	589613-0	001	589613-0	02	589613-0	03	589613-0	004		
Analysis Requested	Field Id:	SP-4 @	3'	SP-4 @	4'	SP-9 @:	5'	SP-9 @	6'		
Anulysis Kequesieu	Depth:	3- ft		4- ft		5- ft		6- ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	Jun-18-18 (07:00	Jun-18-18 (07:10	Jun-18-18 (08:00	Jun-18-18 (08:10		
Chloride by EPA 300	Extracted:	Jun-22-18	11:00	Jun-22-18 1	1:00	Jun-22-18 1	5:15	Jun-22-18	5:15		
	Analyzed:	Jun-22-18	13:02	Jun-22-18 1	4:23	Jun-22-18 1	6:12	Jun-22-18	6:34		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		129	4.95	137	4.95	154	4.95	112	4.95		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Huns Hoah

Kelsey Brooks Project Manager

Analytical Report 589613

for TRC Solutions, Inc

Project Manager: Joel Lowry

ABO SWD 2

26-JUN-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)



26-JUN-18

SUP ACCREDING

Project Manager: **Joel Lowry TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): 589613 ABO SWD 2 Project Address:

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 589613. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 589613 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Knisk

Kelsey Brooks Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 589613



TRC Solutions, Inc, Midland, TX

ABO SWD 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-4 @3'	S	06-18-18 07:00	3 ft	589613-001
SP-4 @4'	S	06-18-18 07:10	4 ft	589613-002
SP-9 @5'	S	06-18-18 08:00	5 ft	589613-003
SP-9 @6'	S	06-18-18 08:10	6 ft	589613-004



Client Name: TRC Solutions, Inc Project Name: ABO SWD 2

Project ID: Work Order Number(s): 589613
 Report Date:
 26-JUN-18

 Date Received:
 06/19/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None





TRC Solutions, Inc, Midland, TX ABO SWD 2

ABO	SWD	

Sample Id:	SP-4 @3'		Matrix:	Soil		Date Received	1:06.19.18 10	.15
Lab Sample Io	d: 589613-001		Date Collect	ed: 06.18.18 07.00		Sample Depth	1:3 ft	
5	ethod: Chloride by EPA 3	300				Prep Method:	E300P	
Tech:	SCM					% Moisture:		
Analyst:	SCM		Date Prep:	06.22.18 11.00		Basis:	Wet Weight	
Seq Number:	3054467							
Parameter		Cas Number	Result	RL	Units	Analysis D	ate Flag	Dil

16887-00-6 129

4.95

06.22.18 13.02

mg/kg





TRC Solutions, Inc, Midland, TX ABO SWD 2

Sample Id:	SP-4 @4'		Matrix:	Soil		Date Received	1:06.19.1	8 10.15
Lab Sample Io	1: 589613-002		Date Collec	ted: 06.18.18 07.10		Sample Depth	:4 ft	
Analytical Me	ethod: Chloride by EPA 3	00				Prep Method:	E300P	
Tech:	SCM					% Moisture:		
Analyst:	SCM		Date Prep:	06.22.18 11.00		Basis:	Wet We	eight
Seq Number:	3054467							
Parameter		Cas Number	Result	RL	Units	Analysis D	ate F	lag Dil

16887-00-6 137

4.95

06.22.18 14.23

mg/kg





TRC Solutions, Inc, Midland, TX ABO SWD 2

ABO	SWD	

Sample Id:	SP-9 @5'		Matrix:	Soil		Date Received	1:06.19	.18 10.15	
Lab Sample Id	: 589613-003		Date Collect	ed: 06.18.18 08.00		Sample Depth	:5 ft		
Analytical Me	thod: Chloride by EPA 3	00				Prep Method:	E300]	Р	
Tech:	SCM					% Moisture:			
Analyst:	SCM		Date Prep:	06.22.18 15.15		Basis:	Wet W	Weight	
Seq Number:	3054471								
Parameter		Cas Number	Result	RL	Units	Analysis D	ate	Flag	Dil

16887-00-6 154

4.95

06.22.18 16.12

mg/kg





TRC Solutions, Inc, Midland, TX ABO SWD 2

ABO	SWL)

Sample Id:	SP-9 @6'		Matrix:	Soil		Date Received	1:06.19	9.18 10.15	
Lab Sample Id	: 589613-004		Date Collect	ed: 06.18.18 08.10		Sample Depth	n:6 ft		
5	thod: Chloride by EPA 3	600				Prep Method:	E300)P	
Tech:	SCM					% Moisture:			
Analyst:	SCM		Date Prep:	06.22.18 15.15		Basis:	Wet	Weight	
Seq Number:	3054471								
Parameter		Cas Number	Result	RL	Units	Analysis D	ate	Flag	Dil

16887-00-6 112

4.95

06.22.18 16.34

mg/kg



Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- **E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



QC Summary 589613

TRC Solutions, Inc ABO SWD 2

Analytical Method:	Chloride by EPA 30	00						P	rep Metho	od: E30	0P	
Seq Number:	3054467			Matrix:	Solid				Date Pro	ep: 06.2	2.18	
MB Sample Id:	7657167-1-BLK		LCS Sar	nple Id:	7657167-	I-BKS		LCS	D Sample	e Id: 765'	7167-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	< 5.00	250	261	104	258	103	90-110	1	20	mg/kg	06.22.18 12:52	

Analytical Method:	Chloride by EPA 3	00						Pr	ep Metho	od: E30	0P	
Seq Number:	3054471			Matrix:	Solid				Date Pre	ep: 06.2	2.18	
MB Sample Id:	7657168-1-BLK		LCS Sar	nple Id:	7657168-	1-BKS		LCS	D Sample	e Id: 765	7168-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag

Analytical Method:	Chloride by EPA 30)0						P	rep Meth	od: E30	0P	
Seq Number:	3054467			Matrix:	Soil				Date Pr	ep: 06.2	2.18	
Parent Sample Id:	589613-001		MS San	nple Id:	589613-00	01 S		MS	D Sample	e Id: 589	613-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	129	248	355	91	355	91	90-110	0	20	mg/kg	06.22.18 13:08	

Analytical Method:	Chloride by EPA 30	00						Pı	rep Metho	od: E30	0P	
Seq Number:	3054467			Matrix:	Soil				Date Pr	ep: 06.2	2.18	
Parent Sample Id:	589613-002		MS Sar	nple Id:	589613-00	02 S		MS	D Sample	e Id: 589	613-002 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	137	248	374	96	372	95	90-110	1	20	mg/kg	06.22.18 14:29	

Analytical Method:	Chloride by EPA 30)0						Р	rep Meth	od: E30	0P	
Seq Number:	3054471			Matrix:	Soil				Date Pr	ep: 06.2	2.18	
Parent Sample Id:	589613-003		MS Sar	nple Id:	589613-00)3 S		MS	D Sample	e Id: 589	513-003 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	154	248	389	95	389	95	90-110	0	20	mg/kg	06.22.18 16:18	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

Page 11 of 15

Final 1.000



QC Summary 589613

TRC Solutions, Inc ABO SWD 2

Analytical Method: Chloride by EPA 300 E300P Prep Method: Seq Number: 3054471 Matrix: Soil Date Prep: 06.22.18 MS Sample Id: 589731-004 S MSD Sample Id: 589731-004 SD 589731-004 Parent Sample Id: MS %RPD RPD Limit Units Parent Spike MS Limits Analysis MSD MSD Flag Parameter Result Amount Result %Rec Date Result %Rec Chloride 487 250 698 709 89 90-110 2 20 mg/kg 06.22.18 17:33 84 Х

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L) Comm.	Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other	5) 5) 5) 5) 5) 5) 5) 5) 5) 5) 5) 5) 5) 5	2 3) < norman () = 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10							58-46 6-18-188:10 613	358-905, 6-18-188:00 25 1	259-404. 6-18-187:10 413	1 SP-40.3' 4-18-18 7:00 3'S I I	Image: Signed berry Drive, San Antonio, TX 78238 210-509-3334 Phone Phone Cation Previously done at XENCO Project ID D Proj. Manager (PM) Proj. Manager (PM) IT Other Jack A. MS, NC, Proj. Manager (PM) Proj. Manager (PM) IT Other Jack A. MS, NC, Proj. Manager (PM) Proj. Manager (PM) IT Other Jack A. MS, NC, Proj. Manager (PM) Proj. Manager (PM) IT Other Jack A. MS, NC, Proj. Manager (PM) Proj. Manager (PM) In Other Jack A. MS, NC, Proj. Manager (PM) Invoice must have a P.O. Container Size P.O. No: In Call for P.O. ST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP Included Call PM) act CLP AGCEE NAVY DOE DOD USACE OTHER: Included Call PM) VW QAPP MDLs RLs See Lab PM Included Call PM) Container Size Bate Time Matrix Depth m Container Size	- <u></u>
	aOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA),See Label (L), Other (O) Various (V), Other Cont. Type: Glass Amb (A), Glass Clear (C),	hereby requested. Rush Charges and Collection Fees are pre-approved if needed	5-18-18 10:28	Sign) Date & Time										Preservatives Image: Construction of the second	ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD
	Clear (C), Plastic (P), Various (V)	on Fees are pre-approved if needed.	final report is a mailed unless	Cooler Temp: 0, C ROO. C	10	9	 7	6	5	4		2		TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Addn: PAH above mg/L W, mg/Kg S Highest Hit Hold Samples (Surcharges will apply and are pre-approved) Sample Clean-ups are pre-approved as needed Addn: Date Rcv. by: From:	CUSTODY RECORD

Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.

Final 1.000





XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 06/19/2018 10:15:00 AM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 589613	Temperature Measuring device used : R8
Sample Recei	pt Checklist Comments
#1 *Temperature of cooler(s)?	.1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Date: 06/19/2018

 Checklist completed by:
 Build Tal

 Brianna Teel
 Brianna Teel

 Checklist reviewed by:
 Man Moah

 Kelsey Brooks
 Kelsey Brooks

Date: 06/20/2018



Project Id:Contact:Joel LowryProject Location:Lea County

Certificate of Analysis Summary 590084

TRC Solutions, Inc, Midland, TX

Project Name: Abo SWD

Date Received in Lab:Fri Jun-22-18 05:25 pmReport Date:27-JUN-18Project Manager:Kelsey Brooks

									<u>.</u>		~ -		
	Lab Id:	590084-0	100	590084-0	02	590084-0	03	590084-0	04	590084-0	05	590084-0	06
Analysis Requested	Field Id:	CE NSV	W	CE ESV	v	CE WSV	v	SSW #1	l I	SSW #2	2	SSW #3	3
Analysis Kequestea	Depth:	1.5- ft		1.5- ft		1.5- ft		1.5- ft		1.5- ft		1.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-20-18 (Jun-20-18 00:00		0:00	Jun-20-18 0	0:00	Jun-20-18 0	0:00	Jun-20-18 0	0:00
Chloride by EPA 300	Extracted:	Jun-26-18 (8:30	Jun-26-18 0	8:30	Jun-26-18 0	8:30	Jun-26-18 0	8:30	Jun-26-18 0	8:30
	Analyzed:	Jun-26-18			5:20	Jun-26-18 1	5:33	Jun-26-18 1	5:45	Jun-26-18 1	5:57	Jun-26-18 1	6:10
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		629	125	229	25.0	547	50.0	<25.0	25.0	399	50.0	99.6	25.0
DRO-ORO By SW8015B	Extracted:	Jun-26-18	13:30	Jun-26-18 1	3:30	Jun-26-18 1	3:30	Jun-26-18 1	3:30	Jun-26-18 1	3:30	Jun-26-18 1	3:30
	Analyzed:	Jun-26-18	19:27	Jun-26-18 20:07		Jun-26-18 2	2:00	Jun-26-18 2	2:40	Jun-26-18 2	3:17	Jun-26-18 2	3:52
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Diesel Range Organics (DRO)		30.8	24.8	<25.2	25.2	868	126	196	25.1	<25.0	25.0	38.1	25.2
Oil Range Hydrocarbons (ORO)		<24.8	24.8	<25.2	25.2	198	126	176	25.1	<25.0	25.0	<25.2	25.2
TPH GRO by EPA 8015 Mod.	Extracted:	Jun-25-18	13:00	Jun-25-18 1	3:00	Jun-25-18 1	3:00	Jun-25-18 1	3:00	Jun-25-18 1	3:00	Jun-25-18 1	3:00
	Analyzed:	Jun-26-18 (04:02	Jun-26-18 0	4:30	Jun-26-18 1	0:53	Jun-26-18 0	4:58	Jun-26-18 02:11		Jun-26-18 0	5:25
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
TPH-GRO		<3.94	3.94	<3.71	3.71	<8.00	8.00	<3.75	3.75	<3.90	3.90	<3.66	3.66

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Huns Hoah

Kelsey Brooks Project Manager



Project Id:Contact:Joel LowryProject Location:Lea County

Certificate of Analysis Summary 590084

TRC Solutions, Inc, Midland, TX

Project Name: Abo SWD

Date Received in Lab:Fri Jun-22-18 05:25 pmReport Date:27-JUN-18Project Manager:Kelsey Brooks

	Lab Id:	590084-0	07	590084-0	00	590084-0	00	590084-0	10	590084-0	11	590084-0	10
	Lab Ia:	390084-0	107	390084-0	08	390084-00	09	390084-0	10	390084-0	11	390084-0	12
Analysis Requested	Field Id:	WSW #	1	WSW #	2	NSW #1		NSW #2	2	NSW #3	3	ESW #1	L I
Analysis Kequesieu	Depth:	1.5- ft		1.5- ft		1.5- ft		1.5- ft		1.5- ft		1.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-20-18 (Jun-20-18 00:00		0:00	Jun-20-18 0	00:00	Jun-20-18 0	00:00	Jun-20-18 0	0:00
Chloride by EPA 300	Extracted:	Jun-26-18 (8:30	Jun-26-18 0	8:30	Jun-26-18 0	8:30	Jun-26-18 0	8:30	Jun-26-18 0	8:30
	Analyzed:	Jun-26-18			6:35	Jun-26-18 1	7:00	Jun-26-18 1	7:49	Jun-26-18 1	8:02	Jun-26-18 1	8:14
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		93.4	25.0	157	25.0	491 D	125	128	25.0	183	25.0	447	125
DRO-ORO By SW8015B	Extracted:	Jun-26-18	13:30	Jun-26-18 1	3:30	Jun-26-18 1	3:30	Jun-26-18 1	3:30	Jun-26-18 1	3:30	Jun-26-18 1	3:30
	Analyzed:	Jun-27-18 (00:31	Jun-27-18 0	01:07	Jun-27-18 0	1:44	Jun-27-18 0	2:23	Jun-27-18 0	3:01	Jun-27-18 0	3:39
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Diesel Range Organics (DRO)		249	25.1	1890	124	26.1	25.2	94.2	25.2	<25.2	25.2	<25.0	25.0
Oil Range Hydrocarbons (ORO)		126	25.1	441	124	25.3	25.2	33.8	25.2	<25.2	25.2	<25.0	25.0
TPH GRO by EPA 8015 Mod.	Extracted:	Jun-25-18	13:00	Jun-25-18 1	3:00	Jun-25-18 1	3:00	Jun-25-18 1	3:00	Jun-25-18 1	3:00	Jun-25-18 1	3:00
	Analyzed:	Jun-26-18 (05:52	Jun-26-18 1	1:20	Jun-26-18 0	6:19	Jun-26-18 0	6:47	Jun-26-18 0	7:14	Jun-26-18 0	9:04
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
TPH-GRO		<3.77	3.77	24.3	18.9	<3.79	3.79	<3.70	3.70	<3.98	3.98	<3.96	3.96

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Huns Hoah

Kelsey Brooks Project Manager

Final 1.000



Project Id:Contact:Joel LowryProject Location:Lea County

Certificate of Analysis Summary 590084

TRC Solutions, Inc, Midland, TX

Project Name: Abo SWD

Date Received in Lab:Fri Jun-22-18 05:25 pmReport Date:27-JUN-18Project Manager:Kelsey Brooks

	Lab Id:	590084-013			
Are plusia De presente d	Field Id:	ESW #2			
Analysis Requested	Depth:	1.5- ft			
	Matrix:	SOIL			
	Sampled:	Jun-20-18 00:00			
Chloride by EPA 300	Extracted:	Jun-26-18 08:30	ŕ		
	Analyzed:	Jun-26-18 18:26			
	Units/RL:	mg/kg RL			
Chloride		545 125			
DRO-ORO By SW8015B	Extracted:	Jun-26-18 13:30			
	Analyzed:	Jun-27-18 04:15			
	Units/RL:	mg/kg RL			
Diesel Range Organics (DRO)		<24.8 24.8			
Oil Range Hydrocarbons (ORO)		<24.8 24.8			
TPH GRO by EPA 8015 Mod.	Extracted:	Jun-25-18 13:00			
	Analyzed:	Jun-26-18 09:31			
	Units/RL:	mg/kg RL			
TPH-GRO		<3.65 3.65			

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Huns Boah

Kelsey Brooks Project Manager

Analytical Report 590084

for TRC Solutions, Inc

Project Manager: Joel Lowry

Abo SWD

27-JUN-18

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)



27-JUN-18

Project Manager: **Joel Lowry TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **590084 Abo SWD** Project Address: Lea County

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 590084. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 590084 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kunsko

Kelsey Brooks Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 590084

TRC Solutions, Inc, Midland, TX

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CE NSW	S	06-20-18 00:00	1.5 ft	590084-001
CE ESW	S	06-20-18 00:00	1.5 ft	590084-002
CE WSW	S	06-20-18 00:00	1.5 ft	590084-003
SSW #1	S	06-20-18 00:00	1.5 ft	590084-004
SSW #2	S	06-20-18 00:00	1.5 ft	590084-005
SSW #3	S	06-20-18 00:00	1.5 ft	590084-006
WSW #1	S	06-20-18 00:00	1.5 ft	590084-007
WSW #2	S	06-20-18 00:00	1.5 ft	590084-008
NSW #1	S	06-20-18 00:00	1.5 ft	590084-009
NSW #2	S	06-20-18 00:00	1.5 ft	590084-010
NSW #3	S	06-20-18 00:00	1.5 ft	590084-011
ESW #1	S	06-20-18 00:00	1.5 ft	590084-012
ESW #2	S	06-20-18 00:00	1.5 ft	590084-013



Client Name: TRC Solutions, Inc Project Name: Abo SWD

Project ID: Work Order Number(s): 590084 Report Date: 27-JUN-18 Date Received: 06/22/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3054610 TPH GRO by EPA 8015 Mod. Surrogate 4-Bromofluorobenzene, Surrogate a,a,a-Trifluorotoluene recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis. Samples affected are: 590084-005.

Batch: LBA-3054675 DRO-ORO By SW8015B

Surrogate Tricosane, Surrogate n-Triacontane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis. Samples affected are: 590084-003,590084-004,590084-007,590084-008.

Batch: LBA-3054680 Chloride by EPA 300

Lab Sample ID 590084-009 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 590084-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.



TRC Solutions, Inc, Midland, TX

Sample Id:CE NSWLab Sample Id:590084-001		Matrix: Date Col	Soil lected: 06.20	0.18 00.00		Date Received:06. ample Depth: 1.5		5
Analytical Method: Chloride	by EPA 300				P	rep Method: E3	00P	
Tech: RNL	,					6 Moisture:		
Analyst: RNL		Date Pre	n· 06.26	5.18 08.30			et Weight	
Seq Number: 3054680		Butorio	p				8	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	629	125		mg/kg	06.26.18 15.08		5
Analytical Method: DRO-OR	20 By SW8015B				Ρ	rep Method: SW	V8015P	
Tech: PGM	10 29 2 11 00102					6 Moisture:	00101	
Analyst: PGM		Date Pre	n: 06.26	5.18 13.30			et Weight	
Seq Number: 3054675		Date Fle	p. 00.20	.18 15.50	L	<i>d</i> 313. <i>W</i>	a weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	30.8	24.8		mg/kg	06.26.18 19.27		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<24.8	24.8		mg/kg	06.26.18 19.27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	114	%	65-144	06.26.18 19.27		
n-Triacontane		638-68-6	118	%	46-152	06.26.18 19.27		
Analytical Method: TPH GR Tech: MIT	O by EPA 8015 Mod.					rep Method: SW 6 Moisture:	V5030B	
Analyst: MIT		Date Pre	n: 06.25	.18 13.00			et Weight	
Seq Number: 3054610		Ducinc	P. 00.25		1			
1			RL		Units	Analysis Date	Flag	Dil
Parameter	Cas Number	Result	KL				•	
-	Cas Number 8006-61-9	Result <3.94	3.94		mg/kg	06.26.18 04.02	U	1
Parameter TPH-GRO		<3.94	3.94 %	Units	mg/kg	06.26.18 04.02	U	1
Parameter			3.94	Units %				1



TRC Solutions, Inc, Midland, TX

Sample Id:CE ESWLab Sample Id:590084-002		Matrix: Date Col	Soil lected: 06.20	.18 00.00		Date Received:06.2 Cample Depth: 1.5		5
Analytical Method: Chloride by	EPA 300				P	rep Method: E30	0P	
Tech: RNL						6 Moisture:		
Analyst: RNL		Date Pre	n: 06.26	.18 08.30			t Weight	
Seq Number: 3054680		Duterrej	p. 00.20	10 00100	_			
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	229	25.0		mg/kg	06.26.18 15.20		1
Analytical Method: DRO-ORO	Bv SW8015B				P	rep Method: SW	8015P	
Tech: PGM	,					6 Moisture:		
Analyst: PGM		Date Pre	n: 06.26	.18 13.30			t Weight	
Seq Number: 3054675		Date The	p. 00.20	.10 15.50	-		e er er gine	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.2	25.2		mg/kg	06.26.18 20.07	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.2	25.2		mg/kg	06.26.18 20.07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	Kettovel y 99	%	65-144	06.26.18 20.07	8	
n-Triacontane		638-68-6	90	%	46-152	06.26.18 20.07		
Analytical Method: TPH GRO b	w EPA 8015 Mod				ŋ	Prep Method: SW	5030B	
Tech: MIT	y El 71 0015 1000.					6 Moisture:	5050 D	
Analyst: MIT		Data Bra	n: 06.25	.18 13.00			t Weight	
Seq Number: 3054610		Date Pre	p. 00.25	.10 15.00	L		i weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.71	3.71		mg/kg	06.26.18 04.30	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	107	%	76-123	06.26.18 04.30		



TRC Solutions, Inc, Midland, TX

Sample Id:CE WSWLab Sample Id:590084-003		Matrix: Soil Date Collected: 06.20.18			Date Received:06.22.18 17.25 Sample Depth: 1.5 ft			
Analytical Method: Chloride by E	PA 300					Prep Method: E30	00P	
Tech: RNL						6 Moisture:		
Analyst: RNL		Date Pre	p: 06.26	.18 08.30	В	Basis: We	t Weight	
Seq Number: 3054680								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	547	50.0		mg/kg	06.26.18 15.33		2
Analytical Method: DRO-ORO B	y SW8015B				F	Prep Method: SW	8015P	
Tech: PGM					%	6 Moisture:		
Analyst: PGM		Date Pre	p: 06.26	.18 13.30	E	Basis: Wet	t Weight	
Seq Number: 3054675								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	868	126		mg/kg	06.26.18 22.00		5
Oil Range Hydrocarbons (ORO)	PHCG2835	198	126		mg/kg	06.26.18 22.00		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	450	%	65-144	06.26.18 22.00	**	
n-Triacontane		638-68-6	368	%	46-152	06.26.18 22.00	**	
Analytical Method: TPH GRO by	EDA 8015 Mod				Г	Prep Method: SW	5020B	
	LI A 6015 Mod.					6 Moisture:	5050D	
				19 12 00			Waight	
		Date Pre	p: 06.25	.18 13.00	E	Jasis. Wel	t Weight	
Seq Number: 3054610								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<8.00	8.00		mg/kg	06.26.18 10.53	U	2
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	94	%	76-123	06.26.18 10.53		
a,a,a-Trifluorotoluene		98-08-8	73					



TRC Solutions, Inc, Midland, TX

Sample Id: SSW #1 Lab Sample Id: 590084-0	04	Matrix: Date Col	Soil llected: 06.20	.18 00.00		Date Received:06.2 Cample Depth: 1.5		5
Analytical Method: Chlo	ride by EPA 300				P	Prep Method: E30)0P	
Tech: RNL					9	6 Moisture:		
Analyst: RNL		Date Pre	p: 06.26	.18 08.30	E	Basis: We	t Weight	
Seq Number: 3054680								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<25.0	25.0		mg/kg	06.26.18 15.45	U	1
Analytical Method: DRC	D-ORO By SW8015B				Ρ	rep Method: SW	8015P	
Tech: PGM						6 Moisture:	00151	
Analyst: PGM		Date Pre	n: 06.26	.18 13.30			t Weight	
Seq Number: 3054675		Date The	p. 00.20	.10 15.50	L		t weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO	O) C10C28DRO	196	25.1		mg/kg	06.26.18 22.40		1
Oil Range Hydrocarbons (O	RO) PHCG2835	176	25.1		mg/kg	06.26.18 22.40		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	211	%	65-144	06.26.18 22.40	**	
n-Triacontane		638-68-6	282	%	46-152	06.26.18 22.40	**	
Analytical Method: TPH Tech: MIT	GRO by EPA 8015 Mod.					Prep Method: SW 6 Moisture:	5030B	
		Data Da		18 12 00			t Weight	
Analyst: MIT Seq Number: 3054610		Date Pre	р. 00.23	.18 13.00	Ľ	we	t Weight	
Seq Number. 5054010								
Parameter	Cas Number		RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.75	3.75		mg/kg	06.26.18 04.58	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	105	%	76-123	06.26.18 04.58		
				78		00120120001000		



TRC Solutions, Inc, Midland, TX

Sample Id:SSW #2Lab Sample Id:590084		Matrix: Date Coll	Soil ected: 06.20	.18 00.00		Date Received:06.2 ample Depth: 1.5		5
Analytical Method: Ch	loride by EPA 300				P	Prep Method: E30)0P	
Tech: RNL	5					6 Moisture:		
Analyst: RNL		Date Prep	: 06.26	.18 08.30	E	Basis: We	t Weight	
Seq Number: 3054680							Ū	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	399	50.0		mg/kg	06.26.18 15.57		2
Analytical Method: DF	O-ORO By SW8015B				P	Prep Method: SW	8015P	
Tech: PGM					9	6 Moisture:		
Analyst: PGM		Date Prep	: 06.26	.18 13.30	E	Basis: We	t Weight	
Seq Number: 3054675								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DR	O) C10C28DRO	<25.0	25.0		mg/kg	06.26.18 23.17	U	1
Oil Range Hydrocarbons (O	RO) PHCG2835	<25.0	25.0		mg/kg	06.26.18 23.17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	103	%	65-144	06.26.18 23.17		
n-Triacontane		638-68-6	104	%	46-152	06.26.18 23.17		
-	H GRO by EPA 8015 Mod.					rep Method: SW	5030B	
Tech: MIT						6 Moisture:		
Analyst: MIT		Date Prep	: 06.25	.18 13.00	E	Basis: We	t Weight	
Seq Number: 3054610								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.90	3.90		mg/kg	06.26.18 02.11	U	1
			%					
Surrogate		Cas Number		Units	Limits	Analysis Date	Flag	
Surrogate 4-Bromofluorobenzen	2	Cas Number 460-00-4	Recovery 46	Units %	Limits 76-123	Analysis Date 06.26.18 02.11	Flag **	



TRC Solutions, Inc, Midland, TX

Sample Id:SSW #3Lab Sample Id:590084-006		Matrix: Date Coll	Soil lected: 06.20	.18 00.00		Date Received:06. ample Depth: 1.5		5
Analytical Method: Chloride by	EPA 300				P	Prep Method: E30)0P	
Tech: RNL						6 Moisture:		
Analyst: RNL		Date Prep	n: 06.26	.18 08.30			t Weight	
Seq Number: 3054680		Duterrep	p. 00.20					
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	99.6	25.0		mg/kg	06.26.18 16.10		1
Analytical Method: DRO-ORO	By SW8015B				P	rep Method: SW	78015P	
Tech: PGM					9	6 Moisture:		
Analyst: PGM		Date Prep	p: 06.26	.18 13.30	E	Basis: We	t Weight	
Seq Number: 3054675								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	38.1	25.2		mg/kg	06.26.18 23.52		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.2	25.2		mg/kg	06.26.18 23.52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	111	%	65-144	06.26.18 23.52		
n-Triacontane		638-68-6	118	%	46-152	06.26.18 23.52		
Analytical Method: TPH GRO b Tech: MIT	y EPA 8015 Mod.					Prep Method: SW 6 Moisture:	75030B	
Analyst: MIT		Date Prep	n: 06.25	.18 13.00			t Weight	
Seq Number: 3054610		Date Me	p. 00.23	.10 15.00	L			
-	<i>a</i>	.						
Parameter	Cas Number		RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.66	3.66		mg/kg	06.26.18 05.25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	92	%	76-123	06.26.18 05.25		
		400-00-4	92	70	70-125	00.20.18 03.23		



TRC Solutions, Inc, Midland, TX

Sample Id:WSW #1Lab Sample Id:590084-007		Matrix: Date Coll	Soil lected: 06.20	.18 00.00		Date Received:06.2 Cample Depth: 1.5		5
Analytical Method: Chloride by E	PA 300				Р	Prep Method: E30	0P	
Tech: RNL						6 Moisture:		
Analyst: RNL		Date Prep	n: 06.26	.18 08.30			t Weight	
Seq Number: 3054680		Duterre	p. 00.20					
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	93.4	25.0		mg/kg	06.26.18 16.22		1
Analytical Method: DRO-ORO B	y SW8015B				P	rep Method: SW	8015P	
Tech: PGM					%	6 Moisture:		
Analyst: PGM		Date Prep	o: 06.26	.18 13.30	E	Basis: We	t Weight	
Seq Number: 3054675								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	249	25.1		mg/kg	06.27.18 00.31		1
Oil Range Hydrocarbons (ORO)	PHCG2835	126	25.1		mg/kg	06.27.18 00.31		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	261	%	65-144	06.27.18 00.31	**	
n-Triacontane		638-68-6	271	%	46-152	06.27.18 00.31	**	
Analytical Method: TPH GRO by Tech: MIT	EPA 8015 Mod.					rep Method: SW 6 Moisture:	5030B	
Analyst: MIT		Date Prep	n: 06.25	.18 13.00			t Weight	
Seq Number: 3054610		Duterre					0	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.77	3.77		mg/kg	06.26.18 05.52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	103	%	76-123	06.26.18 05.52	-	
		100 00 1	105	/0	10 125	00.20.10 05.52		



TRC Solutions, Inc, Midland, TX

Sample Id:WSW #2Lab Sample Id:590084-008			Matrix: Soil Date Collected: 06.20.18 00.00		Date Received:06.22.18 17.25 Sample Depth: 1.5 ft				
Analytical Meth	od: Chloride by EPA	300				Р	Prep Method: E30	0P	
	RNL						6 Moisture:		
	RNL		Date Pre	n: 06.26	.18 08.30			Weight	
Seq Number: 3			Dute The	p. 00.20		_			
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	157	25.0		mg/kg	06.26.18 16.35		1
Analytical Meth	od: DRO-ORO By S	W8015B				P	Prep Method: SW	8015P	
Tech: PGM						%	6 Moisture:		
Analyst: F	PGM		Date Prep: 06.26.18 13.30		Basis: Wet Weight				
Seq Number: 3	8054675		,						
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Orga	anics (DRO)	C10C28DRO	1890	124		mg/kg	06.27.18 01.07		5
Oil Range Hydroc	arbons (ORO)	PHCG2835	441	124		mg/kg	06.27.18 01.07		5
Surrogate			Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane			638-67-5	845	%	65-144	06.27.18 01.07	**	
n-Triacontane	2		638-68-6	676	%	46-152	06.27.18 01.07	**	
	od: TPH GRO by EP	'A 8015 Mod.					Prep Method: SW	5030B	
100111	AIT						6 Moisture:		
	MIT		Date Pre	p: 06.25	.18 13.00	В	Basis: Wet	Weight	
Seq Number: 3	5054610								
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO		8006-61-9	24.3	18.9		mg/kg	06.26.18 11.20		5
Surrogate			Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene			460-00-4	82	%	76-123	06.26.18 11.20		
	otoluene		98-08-8	90	%	69-120			


TRC Solutions, Inc, Midland, TX

Sample Id:NSW #1Lab Sample Id:590084-009		Matrix: Date Co	Soil llected: 06.20	.18 00.00	Date Received:06.22.18 17.25 Sample Depth: 1.5 ft				
Analytical Method: Chloride	by EPA 300				P	Prep Method: E30	0P		
Tech: RNL	-					6 Moisture:			
Analyst: RNL		Date Pre	en: 06.26	.18 08.30			t Weight		
Seq Number: 3054680		2	Ρ.				U		
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	491	125		mg/kg	06.26.18 17.12	D	5	
Analytical Method: DRO-OR	O By SW8015B				Р	rep Method: SW	8015P		
Tech: PGM						6 Moisture:			
Analyst: PGM		Date Pre	vn: 06.26	.18 13.30			t Weight		
Seq Number: 3054675		Date The	.p. 00.20	.10 15.50	-		e i eight		
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Diesel Range Organics (DRO)	C10C28DRO	26.1	25.2		mg/kg	06.27.18 01.44		1	
Oil Range Hydrocarbons (ORO)	PHCG2835	25.3	25.2		mg/kg	06.27.18 01.44		1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
Tricosane		638-67-5	109	%	65-144	06.27.18 01.44	0		
n-Triacontane		638-68-6	116	%	46-152	06.27.18 01.44			
Analytical Method: TPH GRO	D by EPA 8015 Mod.				P	rep Method: SW	5030B		
Tech: MIT					9	6 Moisture:			
Analyst: MIT		Date Pre	ep: 06.25	.18 13.00	E	Basis: We	t Weight		
Seq Number: 3054610									
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
TPH-GRO	8006-61-9	<3.79	3.79		mg/kg	06.26.18 06.19	U	1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene		460-00-4	103	%	76-123	06.26.18 06.19			
a,a,a-Trifluorotoluene		98-08-8	92	%	69-120				



TRC Solutions, Inc, Midland, TX

Sample Id: NSW #2 Lab Sample Id: 590084-01	0	Matrix: Date Col	Soil lected: 06.20	.18 00.00	Date Received:06.22.18 17.25 Sample Depth: 1.5 ft				
Analytical Method: Chlor	ide by EPA 300				P	rep Method: E30	0P		
Tech: RNL	•					6 Moisture:			
Analyst: RNL		Date Pre	p: 06.26	.18 08.30	E	asis: We	t Weight		
Seq Number: 3054680			L						
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	128	25.0		mg/kg	06.26.18 17.49		1	
Analytical Method: DRO-	ORO By SW8015B				P	rep Method: SW	8015P		
Tech: PGM					9	6 Moisture:			
Analyst: PGM		Date Pre	p: 06.26	.18 13.30	E	Basis: We	t Weight		
Seq Number: 3054675									
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Diesel Range Organics (DRO)	C10C28DRO	94.2	25.2		mg/kg	06.27.18 02.23		1	
Oil Range Hydrocarbons (OR	CO) PHCG2835	33.8	25.2		mg/kg	06.27.18 02.23		1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
Tricosane		638-67-5	140	%	65-144	06.27.18 02.23			
n-Triacontane		638-68-6	138	%	46-152	06.27.18 02.23			
Analytical Method: TPH (GRO by EPA 8015 Mod.					rep Method: SW	5030B		
Tech: MIT Analyst: MIT			06.05	10 12 00		6 Moisture: Basis: We	Wai-14		
		Date Pre	p: 06.25	.18 13.00	E	vasis: we	t Weight		
Seq Number: 3054610									
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
TPH-GRO	8006-61-9	<3.70	3.70		mg/kg	06.26.18 06.47	U	1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene		460-00-4	106	%	76-123	06.26.18 06.47			
a,a,a-Trifluorotoluene		98-08-8	91	%	69-120	06.26.18 06.47			



TRC Solutions, Inc, Midland, TX

Sample Id: NSW #3 Lab Sample Id: 590084-011		Matrix: Date Coll	Soil ected: 06.20	.18 00.00	Date Received:06.22.18 17.25 Sample Depth: 1.5 ft				
Analytical Method: Chloride	by EPA 300				F	Prep Method: E30)0P		
Tech: RNL	-,					6 Moisture:			
Analyst: RNL		Date Prep	. 06.26	.18 08.30			t Weight		
Seq Number: 3054680		Duie Prep					0		
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	183	25.0		mg/kg	06.26.18 18.02		1	
Analytical Method: DRO-OR	O By SW8015B				F	Prep Method: SW	78015P		
Tech: PGM					9	6 Moisture:			
Analyst: PGM		Date Prep	. 06.26	.18 13.30	E	Basis: We	t Weight		
Seq Number: 3054675									
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Diesel Range Organics (DRO)	C10C28DRO	<25.2	25.2		mg/kg	06.27.18 03.01	U	1	
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.2	25.2		mg/kg	06.27.18 03.01	U	1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
Tricosane		638-67-5	98	%	65-144	06.27.18 03.01			
n-Triacontane		638-68-6	93	%	46-152	06.27.18 03.01			
Analytical Method: TPH GRO) by EPA 8015 Mod.					Prep Method: SW	5030B		
Tech: MIT			06.05	10 12 00		6 Moisture:			
Analyst: MIT		Date Prep): 06.25	.18 13.00	E	Basis: We	t Weight		
Seq Number: 3054610									
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
TPH-GRO	8006-61-9	<3.98	3.98		mg/kg	06.26.18 07.14	U	1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene		460-00-4	105	%	76-123	06.26.18 07.14	-		
a,a,a-Trifluorotoluene									



TRC Solutions, Inc, Midland, TX

Sample Id: ESW #1 Lab Sample Id: 590084-012		Matrix: Date Col	Soil lected: 06.20	.18 00.00	Date Received:06.22.18 17.25 Sample Depth: 1.5 ft				
Analytical Method: Chloride by	EPA 300				P	Prep Method: E30	0P		
Tech: RNL						6 Moisture:			
Analyst: RNL		Date Pre	p: 06.26	.18 08.30	E	Basis: We	t Weight		
Seq Number: 3054680			L						
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	447	125		mg/kg	06.26.18 18.14		5	
Analytical Method: DRO-ORO	By SW8015B				P	Prep Method: SW	8015P		
Tech: PGM					%	6 Moisture:			
Analyst: PGM		Date Pre	p: 06.26	.18 13.30	E	Basis: We	t Weight		
Seq Number: 3054675									
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0		mg/kg	06.27.18 03.39	U	1	
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.0	25.0		mg/kg	06.27.18 03.39	U	1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
Tricosane		638-67-5	95	%	65-144	06.27.18 03.39			
n-Triacontane		638-68-6	100	%	46-152	06.27.18 03.39			
Analytical Method: TPH GRO b	y EPA 8015 Mod.					rep Method: SW	5030B		
Tech: MIT						6 Moisture:			
Analyst: MIT		Date Pre	p: 06.25	.18 13.00	E	Basis: We	t Weight		
Seq Number: 3054610									
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
TPH-GRO	8006-61-9	<3.96	3.96		mg/kg	06.26.18 09.04	U	1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
		1 60 00 1							
4-Bromofluorobenzene		460-00-4	106	%	76-123	06.26.18 09.04			



TRC Solutions, Inc, Midland, TX

Sample Id: Lab Sample Id:	ESW #2 : 590084-013		Matrix: Date Col	Soil llected: 06.20	.18 00.00	Date Received:06.22.18 17.25 Sample Depth: 1.5 ft				
Analytical Met	hod: Chloride by EPA	300				Р	rep Method: E30	0P		
-	RNL						6 Moisture:			
Analyst:	RNL		Date Pre	p: 06.26	.18 08.30	В	asis: We	t Weight		
Seq Number:	3054680			F.				C		
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Chloride		16887-00-6	545	125		mg/kg	06.26.18 18.26		5	
Analytical Met	hod: DRO-ORO By S	W8015B				р	rep Method: SW	8015P		
	PGM						6 Moisture:			
	PGM		Date Pre	n: 06.26	.18 13.30			t Weight		
Seq Number:			Date The	p. 00.20	.10 15.50	2		e i eight		
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Diesel Range Org	anics (DRO)	C10C28DRO	<24.8	24.8		mg/kg	06.27.18 04.15	U	1	
Oil Range Hydroc	carbons (ORO)	PHCG2835	<24.8	24.8		mg/kg	06.27.18 04.15	U	1	
Surrogate			Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
Tricosane			638-67-5	100	%	65-144	06.27.18 04.15			
n-Triacontar	ne		638-68-6	103	%	46-152	06.27.18 04.15			
	hod: TPH GRO by EF	PA 8015 Mod.					rep Method: SW	5030B		
	MIT						Moisture:			
J	MIT		Date Pre	p: 06.25	.18 13.00	В	Basis: We	t Weight		
Seq Number:	3054610									
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
TPH-GRO		8006-61-9	<3.65	3.65		mg/kg	06.26.18 09.31	U	1	
Surrogate			Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
				•						
4-Bromoflue	orobenzene		460-00-4	94	%	76-123	06.26.18 09.31			



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- **E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



QC Summary 590084

TRC Solutions, Inc

Abo SWD

Analytical Method:	Chloride by EPA 30				Pr	ep Metho	od: E30	0P				
Seq Number:	3054680			Matrix:	Solid				Date Pr	ep: 06.2	6.18	
MB Sample Id:	7657385-1-BLK		LCS Sar	nple Id:	7657385-	1-BKS		LCS	D Sample	e Id: 765	7385-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	<25.0	250	254	102	257	103	90-110	1	20	mg/kg	06.26.18 13:53	

Analytical Method:	Chloride by EPA 3					Pr	ep Metho	od: E30	0P			
Seq Number:	3054680			Matrix:	Soil				Date Pre	ep: 06.2	6.18	
Parent Sample Id:	589735-001		MS Sar	nple Id:	589735-00	01 S		MSI	O Sample	Id: 589	735-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
	Ktsuit	Amount	Result	/once	Result	/once					=	

Analytical Method:	Chloride by EPA 30					Pre	p Metho	d: E30	0P			
Seq Number:	3054680			Matrix:	Soil]	Date Prep	p: 06.2	6.18	
Parent Sample Id:	590084-009		MS San	nple Id:	590084-00)9 S		MSD	Sample	Id: 5900)84-009 SD	
Parameter	Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD R	PD I imit	Unite	Analysis	
	Result	Amount	Result	%Rec	Result	%Rec	Linits			Onto	Date	Flag

Analytical Method:	DRO-ORO By SV	V8015B					Prep Method: SW8015P						
Seq Number:	3054675			Matrix:	Solid				Date Prep	: 06.2	26.18		
MB Sample Id:	7657369-1-BLK		LCS Sat	mple Id:	7657369-	1-BKS		LCS	SD Sample I	d: 765	7369-1-BSD		
Parameter	MH Resul		LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Diesel Range Organics (DRO) <25.) 100	105	105	98.1	98	63-139	7	20	mg/kg	06.26.18 18:11		
Surrogate	MH %Re			CS Rec	LCS Flag	LCSI %Ree			limits	Units	Analysis Date		
Tricosane	85			108		107		6	5-144	%	06.26.18 18:11		
n-Triacontane	79			79		85		4	6-152	%	06.26.18 18:11		

[D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec



QC Summary 590084

TRC Solutions, Inc

Abo SWD

Analytical Method: Seq Number: Parent Sample Id:	8015B	Matrix: Soil MS Sample Id: 590084-002 S					Prep Method: SW8015P Date Prep: 06.26.18 MSD Sample Id: 590084-002 SD						
Parameter	590084-00	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Diesel Range Organics	(DRO)	<25.1	100	88.1	88	91.9	92	63-139	4	20	mg/kg	06.26.18 20:46	
Surrogate					AS Rec	MS Flag	MSD %Re			Limits	Units	Analysis Date	
Tricosane				1	12		110			65-144	%	06.26.18 20:46	
n-Triacontane				1	00		92			46-152	%	06.26.18 20:46	

Analytical Method:	TPH GRO	by EPA	8015 Mod.]	Prep Method	I: SW5	5030B	
Seq Number:	3054610				Matrix:	Solid				Date Prep	b: 06.2	5.18	
MB Sample Id:	7657268-1-1	BLK		LCS Sar	nple Id:	7657268-	1-BKS		LC	SD Sample I	ld: 7657	268-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
TPH-GRO		<4.00	20.0	21.8	109	21.9	110	35-129	0	20	mg/kg	06.26.18 13:10	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re		-	Limits	Units	Analysis Date	
4-Bromofluorobenzene		82		8	33		84		-	76-123	%	06.26.18 13:10	
a,a,a-Trifluorotoluene		117		ç	91		90		(59-120	%	06.26.18 13:10	

Analytical Method:	TPH GRO	by EPA	8015 Mod.						Р	rep Method	: SW	5030B	
Seq Number:	3054610				Matrix:	Soil				Date Prep	: 06.	25.18	
Parent Sample Id:	590084-005	5		MS San	nple Id:	590084-0)5 S		MS	D Sample I	d: 590	084-005 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO		<3.97	19.8	17.2	87	16.3	82	35-129	5	20	mg/kg	06.26.18 02:39	
Surrogate					IS Rec	MS Flag	MSD %Rec		_	imits	Units	Analysis Date	
4-Bromofluorobenzene				1	15		104		7	6-123	%	06.26.18 02:39	
a,a,a-Trifluorotoluene				8	36		73		6	9-120	%	06.26.18 02:39	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control SampleA = Parent Result C = MS/LCS Result E = MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

590084	Matrix Codes W = Water S = Solvedsolved GW = Ground Water BW = Drinking Water BW = Solved Solved GW = Great Sea Water BW = Solved Solved GW = Great Sea Water BW = Solved Solved GW = Great Sea Water BW = Solved Solved GW =	ITM ALLER -
	Analytical Information	
HAIN OF CUSTODY Page 1 Of CUSTODY (2-704-5251) (2-704-5251) (2-704-5251)	Project Name/Numbe Project Name/Numbe Abo SWD Invoice To: Use County Invoice To: Collection 6/20/2018 6/20/200 6/20/2018 6/20/2018 6/20/	
Setting the Standard since 1990 Stafford, Texas (281-240-4200) Dallas Texas (281-240-4200) Dallas Texas (214-902-0300) Client / Reporting Information Company Name / Branch:	Compare Address: Compare Address: Phone Microsoft Famil: IOUNC@ItcsOllufons.com 43:466.430 Mellent/TSOS Pine Nic 43:466.430 Profile IOUNC@ItcsOllufons.com 43:466.430 Profile Point of Collection 43:466.430 Profile IOUNC@ItcsOllufons.com 43:466.430 Profile Point of Collection 43:466.430 Profile IOUNC@ItcsOllufons.com 43:466.430 Profile Point of Collection 43:466.430 Profile IOUNC@ItcsOllufons.com 43:400 Profile ISSW #2 11:5 5 Profile ISSW #2 11:5 5 Profile ION #11 10:5 5 Profile ION #11 10:5 5 Profile ION #11 10:5 5 Profile ION #12	

CHAIN OF CUSTODY

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ANDIC CIMPA	www.xenco.com	Xenci	Xenco Quote #	Xenco Job #	200012 100-20
Mind of the second s					4800LC 610064
Company Name / Reacting Information	Project Information		Analytical Information	tion	Matrix Codes
TRC Environmental Corporation	å				
Company Address: 10 Desta Dr. S. vito 1505	Project Location:				W = Water
Midland, TX 79705	Lea County				GW =Ground Water
Email: Ilowry@trcsolutions.com	Invoice To:				DW = Drinking Water P = Product
432-4959-4450 Profest Contract			•	(SW = Surface water
	Vanguard CO Chuck Johnston		2 2 2 1 2 1 2 1 2	(WN	SL = Sludge OW =Ocean/Sea Water
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Sample	jo *	HO POSH	гь I к WBC	bho 18 H	
1 NSW #3	6/20//2018	NOI ME Ng	ИС РС		Field Comments
2 ESW #1	C DOIDOLO	×	×		
3 ESW #2		×	×		6
1.5	5/20/2018 s	×	×		80
4			<		5
5					
Q					
7					
8					
6					
10					
Turnaround Time (Business days)					
	Data Deliverable Information		Notes:	の行きませる	
	Level II Std QC	Level IV (Full Data Pkg /raw data)		llown@trealutions	
C Next Day EMERGENCY	Level III Std QC+ Forms	TRRP Level IV			
2 Day EMERGENCY	Level 3 (CLP Forms)	list/pc ***		TOURNER & RCSOINTIOUS.COM	
3 Day EMERGENCY			bcooper@trc	bcooper@trcsolutions.com	
TAT Starts Day received by Lab, if received by 5:00 nm					
			FED-EX / UPS: Tracking #	5: Tracking #	
Communities of the semigler:	Received By:	ME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY		How we have the second	
Reinfaushed by: 10/2/18	595 1	.6	Date lime:	Received By:	
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Notice: Signature of this document and relinquishment of samples constitutes & value of the cooler Temp. Thermo. Corr. Factor	8 5. 25 15 K) ALON AN IL BUN			5	Cooler Temp. Thermo. Corr. Factor
e enforced unless previously negotiated under a fully executed client contract.	ontrol on Kenney. A minimum charge of \$75 will be applied to each project.	tors. It assigns standard terms and con Xenco's liability will be limited to the co.	litions of service. Xenco will be liab at of samples. Any samples receive	ole only for the cost of	samples and shall not assume any responsibility for any
				מ הל עבוורה התו זותו שו	nalyzed will be invoiced at \$5 per sample. These terms will

Final 1.000



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	Acceptable Temperature Range: 0 - 6 degC					
Date/ Time Received: 06/22/2018 05:25:00 PM	Air and Metal samples Acceptable Range: Ambient					
Work Order #: 590084	Temperature Measuring device used : IR-3					
Sample Recei	pt Checklist Comments					
#1 *Temperature of cooler(s)?	3.9					
#2 *Shipping container in good condition?	Yes					
#3 *Samples received on ice?	Yes					
#4 *Custody Seals intact on shipping container/ cooler?	N/A					
#5 Custody Seals intact on sample bottles?	N/A					
#6*Custody Seals Signed and dated?	N/A					
#7 *Chain of Custody present?	Yes					
#8 Any missing/extra samples?	Νο					
#9 Chain of Custody signed when relinquished/ received?	Yes					
#10 Chain of Custody agrees with sample labels/matrix?	Yes					
#11 Container label(s) legible and intact?	Yes					
#12 Samples in proper container/ bottle?	Yes					
#13 Samples properly preserved?	Yes					
#14 Sample container(s) intact?	Yes					
#15 Sufficient sample amount for indicated test(s)?	Yes					
#16 All samples received within hold time?	Yes					
#17 Subcontract of sample(s)?	Νο					

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#: IR-3

#18 Water VOC samples have zero headspace?

Date: 06/22/2018

N/A

Checklist completed by: Checklist reviewed by: Kelsey Brooks

Date: 06/22/2018



Project Id:Contact:Joel LowryProject Location:Lea County, NM

Certificate of Analysis Summary 591008

TRC Solutions, Inc, Midland, TX Project Name: Vanguard Abo SWD #2



Date Received in Lab:Sat Jun-30-18 09:00 amReport Date:09-JUL-18Project Manager:Kelsey Brooks

								1	1
	Lab Id:	591008-0	01	591008-0	02	591008-00)3		
Analysis Requested	Field Id:	WSW #2	b	CE WSW	/b	CE NSW	7		
Analysis Kequestea	Depth:	1-		1-		1-			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Jun-28-18 0	7:45	Jun-28-18 0	7:50	Jun-28-18 07	7:55		
Chloride by EPA 300 Extracted:						Jul-05-18 15	5:00		
	Analyzed:					Jul-05-18 21	:32		
	Units/RL:					mg/kg	RL		
Chloride						342	4.93		
TPH by SW8015 Mod	Extracted:	Jul-06-18 1	0:00	Jul-06-18 10	0:00				
	Analyzed:	Jul-06-18 1	9:19	Jul-06-18 19	9:39				
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0				
Diesel Range Organics (DRO)		<15.0	15.0	131	15.0				
Oil Range Hydrocarbons (ORO)		<15.0	15.0	24.1	15.0				
Total TPH		<15	15	155.1	15				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Huns Hoah

Kelsey Brooks Project Manager

Analytical Report 591008

for TRC Solutions, Inc

Project Manager: Joel Lowry

Vanguard Abo SWD #2

09-JUL-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)



09-JUL-18



Project Manager: **Joel Lowry TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **591008** Vanguard Abo SWD #2 Project Address: Lea County, NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 591008. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 591008 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Knisk

Kelsey Brooks Project Manager

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Sample Cross Reference 591008



TRC Solutions, Inc, Midland, TX

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
WSW #2b	S	06-28-18 07:45	1	591008-001
CE WSWb	S	06-28-18 07:50	1	591008-002
CE NSW	S	06-28-18 07:55	1	591008-003



CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: Vanguard Abo SWD #2

Project ID: Work Order Number(s): 591008 Report Date:09-JUL-18Date Received:06/30/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None





TRC Solutions, Inc, Midland, TX

Sample Id: WSW #2b Lab Sample Id: 591008-001		Matrix: Date Collecte	Soil ed: 06.28.18 07.45		Date Received Sample Depth	:06.30.18 09.00 : 1)
Analytical Method: TPH by SW8015 Tech: ARM	Mod				Prep Method: 6 Moisture:	TX1005P	
Analyst: ARM		Date Prep:	07.06.18 10.00	В	Basis:	Wet Weight	
Seq Number: 3055781							
Parameter	Cas Number	Result F	RL	Units	Analysis Da	ate Flag	Dil

1 ar anieter	Cas i tumber	Result	KL		Units	Analysis Date	Flag	Dii
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.06.18 19.19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.06.18 19.19	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.06.18 19.19	U	1
Total TPH	PHC635	<15	15		mg/kg	07.06.18 19.19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	07.06.18 19.19		
o-Terphenyl		84-15-1	96	%	70-135	07.06.18 19.19		





TRC Solutions, Inc, Midland, TX

Dil
t
0.00
9

Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.06.18 19.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	131	15.0		mg/kg	07.06.18 19.39		1
Oil Range Hydrocarbons (ORO)	PHCG2835	24.1	15.0		mg/kg	07.06.18 19.39		1
Total TPH	PHC635	155.1	15		mg/kg	07.06.18 19.39		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	89	%	70-135	07.06.18 19.39		
o-Terphenyl		84-15-1	93	%	70-135	07.06.18 19.39		





TRC Solutions, Inc, Midland, TX

Vanguard Abo SWD #2

Sample Id:CE NSWLab Sample Id:591008-003	Matrix: Date Collecte	Soil ed: 06.28.18 07.55	Date Received:06.30.18 09.00 Sample Depth: 1				
Analytical Method: Chloride by EPA Tech: SCM Analyst: SCM	300		07.05.19.15.00		Prep Method: % Moisture: Basis:		
Seq Number: 3055723		Date Prep:	07.05.18 15.00		Basis:	Wet Weight	
Parameter	Cas Number	Result I	RL	Units	Analysis D	ate Flag	Dil

16887-00-6 **342**

4.93

07.05.18 21.32

mg/kg

1



Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



QC Summary 591008

TRC Solutions, Inc

Vanguard Abo SWD #2

Analytical Method:	Chloride by EPA 3	00						Pre	p Method	: E300)P	
Seq Number:	3055723			Matrix:	Solid]	Date Prep	: 07.0	5.18	
MB Sample Id:	7657872-1-BLK		LCS San	nple Id:	7657872-	1-BKS		LCSD	Sample I	d: 7657	872-1-BSD	
Domomotor	MB	C	LCC	TOO			.					
Parameter	Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD R	PD Limit	Units	Analysis Date	Flag

Analytical Method:	Chloride by EPA 3	00						Prep Meth	od: E30	0P	
Seq Number:	3055723			Matrix:	Soil			Date Pr	ep: 07.0	5.18	
Parent Sample Id:	590920-004		MS Sar	nple Id:	590920-00	04 S		MSD Sample	e Id: 590	920-004 SD	
Parameter	Parent	Spike	MS	MS	MCD	MOD	Limits	%RPD RPD Lim	t Unita	A	
1 al ameter	Result	Amount	Result	%Rec	MSD Result	MSD %Rec	Linnts	76KFD KFD Lill	n Units	Analysis Date	Flag

Analytical Method:	Chloride by EPA 30	00						Pı	ep Meth	od: E30	0P	
Seq Number:	3055723			Matrix:	Soil				Date Pr	ep: 07.0	5.18	
Parent Sample Id:	591006-007		MS Sar	nple Id:	591006-00)7 S		MS	D Sample	e Id: 591	006-007 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	29.1	245	266	97	265	96	90-110	0	20	mg/kg	07.05.18 20:54	

Analytical Method:	TPH by S	W8015 M	od						I	Prep Metho	d: TX1	005P	
Seq Number:	3055781				Matrix:	Solid		Date Prep: 07.06.18					
MB Sample Id:	7657983-1	-BLK		LCS Sample Id: 7657983-1-BKS LCSD Sample Id: 7657983-1-BSD									
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<15.0	1000	940	94	943	94	70-135	0	20	mg/kg	07.06.18 11:18	
Diesel Range Organics ((DRO)	<15.0	1000	963	96	961	96	70-135	0	20	mg/kg	07.06.18 11:18	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Rec			Limits	Units	Analysis Date	
1-Chlorooctane		102		1	15		115		7	0-135	%	07.06.18 11:18	
o-Terphenyl		108		1	07		103		7	0-135	%	07.06.18 11:18	

[D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec



QC Summary 591008

TRC Solutions, Inc

Vanguard Abo SWD #2

Analytical Method:TPH by SW8015 ModSeq Number:3055781Parent Sample Id:590704-001				Matrix: Soil MS Sample Id: 590704-001 S			Prep Method: TX1005P Date Prep: 07.06.18 MSD Sample Id: 590704-001 SD						
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<15.0	1000	905	91	929	93	70-135	3	20	mg/kg	07.06.18 12:18	
Diesel Range Organics ((DRO)	<15.0	1000	951	95	979	98	70-135	3	20	mg/kg	07.06.18 12:18	
Surrogate					AS Rec	MS Flag	MSD %Ree			Limits	Units	Analysis Date	
1-Chlorooctane				1	09		114			70-135	%	07.06.18 12:18	
o-Terphenyl				9	96		99			70-135	%	07.06.18 12:18	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec



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Dallas Texas (214-902-0300)

CHAIN OF CUSTODY Page 1 Of

San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

ø No. Project Contact: Joel Lowry Email: 10 Desta Dr. Suite 150E 10 в ~ ი samplers's Name: σı ω N Relinquished by: 3 Day EMERGENCY ₽ idland, TX 79705 ompany Name / Branch: RC Environmental Corporation mpany Address: TAT Starts Day received by Lab, if received by 5:00 pm Inquished by Sa 2 Day EMERGENCY Next Day EMERGENCY Same Day TAT CE NSW CE WSWb WSW #2b ilowry@trcsolutions.com fquished by: Client / Reporting Information Turnaround Time (Business days) Field ID / Point of Collection X Contract TAT 7 Day TAT 5 Day TAT SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY 432-466-4450 Phone No: Date Time: Date Time: 6129 4.21 Date Time: Sample Depth Project NameNumber: Vanguard Abo SWD #2 Project Location: Invoice: Vanguard, CO Chuck Johnston Invoice To: Midland, Texas (432-704-5251) 6/28/2018 6/28/2018 6/28/2018 -ea County, NM Date 7:50 7:55 Heceived By: Tius Received By: TRRP Checklist Received By Time Level 3 (CLP Forms) Level III Std QC+ Forms Level II Std QC Project Information Matrix s s Ś Data Deliverable Information www.xenco.com # of bottles --_ нсі NaOH/Zn Acetate TRRP Level IV INO3 Level IV (Full Data Pkg /raw data) Relinquished By: Custody Seal # **Relinquished By:** UST / RG -411 12804 NaOH laHSO4 EOH NONE TPH TX1005 Xenco Quote # Preserved Chloride E 300 Date Time: 6-29-18 3:1 0 NORM where applicable Analytical Information RCI 7 FED-EX/UPS: Tracking # 6 600397 bcooper@trcsolutions.com ilowry@trcsolutions.com zconder@trcsolutions.com TCLP Benzene 3 Notes: TCLP RCRA 8 Metals Pecely Xenco Job # Chloride × yad By: TPH 8015 M Ext (NM) × × erance 800165 DMCG Field Comments 0 = Oil WW= Waste Water Corr. Factor OW =Ocean/Sea Water GW =Ground Water Ř WI = Wipe SL = Sludge SW = Surface water P = Product DW = Drinking Water S = Soil/Sed/Solid W = Water A = Air 2362 Matrix Codes

Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, is affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the clieses or expenses incurred by the Client if such loses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but be enforced unless previously negotiated under a fully executed client contract:

not analyzed g

will be

invoiced at \$5 per sample. These terms will hall not assume any responsibility for any



XENCO Laboratories



ATORIES Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	Acceptable Temperature Range: 0 - 6 degC					
Date/ Time Received: 06/30/2018 09:00:00 AM	Air and Metal samples Acceptable Range: Ambient					
Work Order #: 591008	Temperature Measuring device used : R8					
Sample Recei	pt Checklist Comments					
#1 *Temperature of cooler(s)?	.1					
#2 *Shipping container in good condition?	Yes					
#3 *Samples received on ice?	Yes					
#4 *Custody Seals intact on shipping container/ cooler?	N/A					
#5 Custody Seals intact on sample bottles?	N/A					
#6*Custody Seals Signed and dated?	N/A					
#7 *Chain of Custody present?	Yes					
#8 Any missing/extra samples?	Νο					
#9 Chain of Custody signed when relinquished/ received?	Yes					
#10 Chain of Custody agrees with sample labels/matrix?	Yes					
#11 Container label(s) legible and intact?	Yes					
#12 Samples in proper container/ bottle?	Yes					
#13 Samples properly preserved?	Yes					
#14 Sample container(s) intact?	Yes					
#15 Sufficient sample amount for indicated test(s)?	Yes					
#16 All samples received within hold time?	Yes					
#17 Subcontract of sample(s)?	Νο					
#18 Water VOC samples have zero headspace?	N/A					

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Date: 07/02/2018

 Checklist completed by:
 July

 Katie Lowe

 Checklist reviewed by:
 Mange Moach

 Kelsey Brooks

Date: 07/03/2018



Project Id:Contact:Joel LowryProject Location:Lea County, NM

Certificate of Analysis Summary 591014

TRC Solutions, Inc, Midland, TX Project Name: Vanguard Abo SWD #2



Date Received in Lab:Sat Jun-30-18 09:00 amReport Date:10-JUL-18Project Manager:Kelsey Brooks

										1
	Lab Id:	591014-0	01	591014-0	02	591014-0	03	591014-0	04	
Analysis Requested	Field Id:	NW Floor	@2'	SW Floor @2'		CE Floor @2'		SE Floor @3'		
Analysis Kequestea	Depth:	2- ft		2- ft		2- ft		3- ft		
	Matrix:	SOIL		SOIL		SOIL		SOIL		
	Sampled:	Jun-28-18 (9:10	Jun-28-18 (9:15	Jun-28-18 0	9:20	Jun-28-18 0	9:25	
Chloride by EPA 300	Extracted:	Jul-05-18 1	6:30	Jul-05-18 1	6:30	Jul-05-18 1	6:30	Jul-05-18 1	6:30	
	Analyzed:	Jul-05-18 2	2:32	Jul-05-18 2	2:48	Jul-05-18 22	2:53	Jul-05-18 22	2:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		154	4.97	436	5.00	494	4.97	412	4.96	
TPH by SW8015 Mod	Extracted:	Jul-07-18 0	8:00	Jul-07-18 0	8:00	Jul-07-18 08	8:00	Jul-07-18 08	8:00	
	Analyzed:	Jul-07-18 1	5:25	Jul-08-18 0	8:30	Jul-07-18 1	6:04	Jul-08-18 09	9:28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	19.3	15.0	<15.0	15.0	<15.0	15.0	
Diesel Range Organics (DRO)		92.6	15.0	3750	15.0	24.8	15.0	104	15.0	
Oil Range Hydrocarbons (ORO)		26.7	15.0	105	15.0	<15.0	15.0	<15.0	15.0	
Total TPH		119.3	15	3874.3	15	24.8	15	104	15	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Huns Hoah

Kelsey Brooks Project Manager

Analytical Report 591014

for TRC Solutions, Inc

Project Manager: Joel Lowry Vanguard Abo SWD #2

-

10-JUL-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)



10-JUL-18



Project Manager: **Joel Lowry TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **591014** Vanguard Abo SWD #2 Project Address: Lea County, NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 591014. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 591014 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Knisk

Kelsey Brooks Project Manager

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Sample Cross Reference 591014



TRC Solutions, Inc, Midland, TX

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NW Floor @2'	S	06-28-18 09:10	2 ft	591014-001
SW Floor @2'	S	06-28-18 09:15	2 ft	591014-002
CE Floor @2'	S	06-28-18 09:20	2 ft	591014-003
SE Floor @3'	S	06-28-18 09:25	3 ft	591014-004



CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: Vanguard Abo SWD #2

Project ID: Work Order Number(s): 591014 Report Date: 10-JUL-18 Date Received: 06/30/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None





TRC Solutions, Inc, Midland, TX

Sample Id:NW Floor @2'Lab Sample Id:591014-001		Matrix: Date Collect	Soil ed: 06.28.18 09.10	Date Received:06.30.18 09.00 Sample Depth: 2 ft				
Analytical Method:Chloride by EPA 3Tech:SCMAnalyst:SCMSeq Number:3055724	300	Date Prep:	07.05.18 16.30		Prep Method: % Moisture: Basis:	E300P Wet Weight		
Parameter	Cas Number	Result]	RL	Units	Analysis Da	te Flag	Dil	

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	154	4.97	mg/kg	07.05.18 22.32		1

Analytical Method: TPH by SW801 Tech: ARM Analyst: ARM Sea Number: 3055921	5 Mod	Date Pre	p: 07.07.	18 08.00	9/	Prep Method: TX 6 Moisture: Basis: We	1005P t Weight	
Seq Number: 3055921 Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.07.18 15.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	92.6	15.0		mg/kg	07.07.18 15.25		1
Oil Range Hydrocarbons (ORO)	PHCG2835	26.7	15.0		mg/kg	07.07.18 15.25		1
Total TPH	PHC635	119.3	15		mg/kg	07.07.18 15.25		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	93	%	70-135	07.07.18 15.25		
o-Terphenyl		84-15-1	100	%	70-135	07.07.18 15.25		





TRC Solutions, Inc, Midland, TX

Sample Id: Lab Sample Id	SW Floor @2' d: 591014-002		Matrix: Date Collec	Soil cted: 06.28.18 09.15		Date Received:06. Sample Depth: 2 ft)	
•	ethod: Chloride by EPA SCM	300				Prep Method: E30 % Moisture:	00P	
Tech: Analyst:	SCM		Date Prep:	07.05.18 16.30			t Weight	
Seq Number:	3055724							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	436	5.00	mg/kg	07.05.18 22.48		1

Analytical Method: TPH by SW8015 Tech: ARM Analyst: ARM Seq Number: 3055921	Date Prep: 07.07.18 08.00			Prep Method: TX1005P % Moisture: Basis: Wet Weight				
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	19.3	15.0		mg/kg	07.08.18 08.30		1
Diesel Range Organics (DRO)	C10C28DRO	3750	15.0		mg/kg	07.08.18 08.30		1
Oil Range Hydrocarbons (ORO)	PHCG2835	105	15.0		mg/kg	07.08.18 08.30		1
Total TPH	PHC635	3874.3	15		mg/kg	07.08.18 08.30		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	96	%	70-135	07.08.18 08.30		
o-Terphenyl		84-15-1	130	%	70-135	07.08.18 08.30		





TRC Solutions, Inc, Midland, TX

Sample Id:CE Floor @2'Lab Sample Id:591014-003		Matrix: Date Colle	Soil cted: 06.28.18 09.20		Date Received:06. Sample Depth: 2 ft	0	
Analytical Method: Chloride by EPA Tech: SCM	A 300				Prep Method: E3	00P	
Analyst: SCM		Date Prep:	07.05.18 16.30			et Weight	
Seq Number: 3055724							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	494	4.97	mg/kg	07.05.18 22.53		1

Analytical Method: TPH by SW8015	5 Mod				P	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Prep	p: 07.07.	18 08.00	E	Basis: We	t Weight	
Seq Number: 3055921								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.07.18 16.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	24.8	15.0		mg/kg	07.07.18 16.04		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.07.18 16.04	U	1
Total TPH	PHC635	24.8	15		mg/kg	07.07.18 16.04		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	96	%	70-135	07.07.18 16.04		
o-Terphenyl		84-15-1	100	%	70-135	07.07.18 16.04		





TRC Solutions, Inc, Midland, TX

Sample Id:	SE Floor @3'		Matrix:	Soil		Date Received:06	.30.18 09.00)
Lab Sample I	d: 591014-004		Date Colle	ected: 06.28.18 09.25		Sample Depth: 3 f		
Analytical Mo	ethod: Chloride by EPA	300				Prep Method: E3	00P	
Tech:	SCM					% Moisture:		
Analyst:	SCM		Date Prep:	07.05.18 16.30		Basis: We	et Weight	
Seq Number:	3055724							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	412	4.96	mg/kg	07.05.18 22.59		1

Analytical Method: TPH by SW801 Tech: ARM Analyst: ARM Seq Number: 3055921	Date Pre	p: 07.07	.18 08.00	%	Prep Method: TX 6 Moisture: Basis: We	1005P t Weight		
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.08.18 09.28	U	1
Diesel Range Organics (DRO)	C10C28DRO	104	15.0		mg/kg	07.08.18 09.28		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.08.18 09.28	U	1
Total TPH	PHC635	104	15		mg/kg	07.08.18 09.28		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	93	%	70-135	07.08.18 09.28		
o-Terphenyl		84-15-1	95	%	70-135	07.08.18 09.28		



Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



QC Summary 591014

TRC Solutions, Inc

Vanguard Abo SWD #2

Analytical Method:	Chloride by EPA 30)0						Pı	ep Metho	od: E30	OP 90	
Seq Number:	3055724			Matrix:	Solid				Date Pr	ep: 07.0	5.18	
MB Sample Id:	7657873-1-BLK		LCS Sar	nple Id:	7657873-1	I-BKS		LCS	D Sample	e Id: 7657	7873-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	<4.99	250	236	94	244	98	90-110	3	20	mg/kg	07.05.18 22:21	

Analytical Method:	Chloride by EPA 30	00						Pr	ep Metho	d: E30)0P	
Seq Number:	3055724			Matrix:	Soil				Date Pre	ep: 07.0	05.18	
Parent Sample Id:	591014-001		MS Sar	nple Id:	591014-00	01 S		MSI	O Sample	Id: 591	014-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag

Analytical Method:	Chloride by EPA 30)0						Pı	ep Meth	od: E30	0P	
Seq Number:	3055724			Matrix:	Soil				Date Pr	ep: 07.0	5.18	
Parent Sample Id:	591015-007		MS Sar	nple Id:	591015-00)7 S		MS	D Sample	e Id: 591	015-007 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	6.36	246	237	94	249	99	90-110	5	20	mg/kg	07.05.18 23:53	

Analytical Method: TPH by SW8015 Mod									Prep Method: TX1005P					
Seq Number: 3055921			Matrix: Solid				Date Prep: 07.07.18							
MB Sample Id: 7658081-1-BLK			LCS Sample Id: 765808			58081-1-BKS LCSD Samp					8081-1-BSD			
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Gasoline Range Hydrocarbons (GRO)		<15.0	1000	953	95	986	99	70-135	3	20	mg/kg	07.07.18 10:10		
Diesel Range Organics (DRO)		<15.0	1000	986	99	1020	102	70-135	3	20	mg/kg	07.07.18 10:10		
Surrogate		MB %Rec	MB Flag	LCS %Rec		LCS Flag	LCSI %Re					Analysis Date		
1-Chlorooctane		98		1	18		117		7	70-135	%	07.07.18 10:10		
o-Terphenyl		105		107		108			7	70-135	%	07.07.18 10:10		

[D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec



QC Summary 591014

TRC Solutions, Inc

Vanguard Abo SWD #2

Analytical Method:TPH by SW8015 ModSeq Number:3055921Parent Sample Id:591015-001				Matrix: Soil MS Sample Id: 591015-001 S				Prep Method: TX1005P Date Prep: 07.07.18 MSD Sample Id: 591015-001 SD						
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI	O RPD Limit	Units	Analysis Date	Flag	
Gasoline Range Hydrocarbons (GRO)		<15.0	998	970	97	949	95	70-135	2	20	mg/kg	07.07.18 11:09		
Diesel Range Organics (DRO)		59.6	998	1080	102	1060	100	70-135	2	20	mg/kg	07.07.18 11:09		
Surrogate			MS %Rec		MS Flag	MSD %Ree				Units	Analysis Date			
1-Chlorooctane			119		115				70-135	%	07.07.18 11:09			
o-Terphenyl			1	05	107				70-135	%	07.07.18 11:09			

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec


Stafford, Texas (281-240-4200) Setting the Standard since 1990

Dallas Texas (214-902-0300)

CHAIN OF CUSTODY Page 1 Of 1

San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

	Jallas Texas (214-902-0300)		Midland	Midland, Texas (432-704-5251)	2-704-52	51																		
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	Client / Reporting Information			Pr	Project Information	rmation					1													
	Company Name / Branch: TRC Environmental Corporation		Project Na Vancuar	Project Name/Number: Vancuard Abo SWD #2	5											—								
	Company Address:		Project Location:	cation:	ŕ																·			
	Midland, TX 79705		Lea County, NM	Y, NM																				
	Email:	Phone No:	Invoice To:	H																				
	llowry@trcsolutions.com	432-466-4450	Vanguard,	Vanguard, CO Chuck Johnston	hnston														IS		/)			
	Project Contact: Joel Lowry		Invoice.										I						/leta		t (NI			
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ਕੂ ਨ ਟੀ	Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns stant losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be enforced unless previously negotiated under a fully executed client contract.	J shment of samples constitutes a valid s are due to circumstances beyond the vexecuted client contract.	purchase orde	r from client coi co. A minimum i	mpany to Xe charge of \$;	anco, its af 75 will be a	filiates ar pplied to	nd subcor each pro	ntractors oject. Xe	. It assi nco's lia	gns sta bility w	ndard t III be lin	erms ar vited to		id cond the cos	id conditions of the cost of sau	Id conditions of servin the cost of samples.	id conditions of service. Xer the cost of samples. Any sa	id conditions of service. Xenco will the cost of samples. Any samples	Id conditions of service. Xenco will be lial the cost of samples. Any samples receiv	d conditions of service. Xenco will be liable onh the cost of samples. Any samples received by 2	Id conditions of service. Xenco will be liable only for the the cost of samples. Any samples received by Xenco by	Id conditions of service. Xenco will be liable only for the cost the cost of samples. Any samples received by Xenco but not	I dard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be limited to the cost of samples.





XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 06/30/2018 09:00:00 AM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 591014	Temperature Measuring device used : R8
Sample Rece	ipt Checklist Comments
#1 *Temperature of cooler(s)?	.1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	Νο
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Νο

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

#18 Water VOC samples have zero headspace?

Date: 07/02/2018

N/A

 Checklist completed by:
 July

 Katie Lowe

 Checklist reviewed by:

 Many Morah

 Kelsey Brooks

Date: 07/03/2018



Project Id: Contact: Joel Lowry Project Location:

Certificate of Analysis Summary 592670

TRC Solutions, Inc, Midland, TX Project Name: ABO SWD #2



Date Received in Lab:Wed Jul-18-18 10:10 amReport Date:20-JUL-18Project Manager:Kelsey Brooks

	Lab Id:	592670-0	01				
Analysis Requested	Field Id:	SW Floo	or				
Anulysis Kequesieu	Depth:	3- ft					
	Matrix:	SOIL					
	Sampled:	Jul-17-18 1	0:30				
TPH by SW8015 Mod	Extracted:	Jul-19-18 1	2:00	l	l .		
	Analyzed:	Jul-19-18 1	6:49				
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<14.9	14.9				
Diesel Range Organics (DRO)		<14.9	14.9				
Oil Range Hydrocarbons (ORO)		<14.9	14.9				
Total TPH		<14.9	14.9				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Huns Hoah

Kelsey Brooks Project Manager

Analytical Report 592670

for TRC Solutions, Inc

Project Manager: Joel Lowry ABO SWD #2

20-JUL-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)



20-JUL-18

Project Manager: **Joel Lowry TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **592670 ABO SWD #2** Project Address:

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 592670. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 592670 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Knisk

Kelsey Brooks Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 592670



TRC Solutions, Inc, Midland, TX

ABO SWD #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW Floor	S	07-17-18 10:30	3 ft	592670-001



CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: ABO SWD #2

Project ID: Work Order Number(s): 592670 Report Date: 20-JUL-18 Date Received: 07/18/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 592670



TRC Solutions, Inc, Midland, TX ABO SWD #2

Sample Id: SW Floor		Matrix:	Soil		Date Received:	07.18.18 10.1	0
Lab Sample Id: 592670-001		Date Collec	cted: 07.17.18 10.30		Sample Depth:	3 ft	
Analytical Method: TPH by SW801	5 Mod				Prep Method:	TX1005P	
Tech: ARM					% Moisture:		
Analyst: ARM		Date Prep:	07.19.18 12.00		Basis:	Wet Weight	
Seq Number: 3057120							
Parameter	Cas Number	Result	RL	Units	Analysis Dat	e Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	07.19.18 16.49	9 U	1

Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9		mg/kg	07.19.18 16.49	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9		mg/kg	07.19.18 16.49	U	1
Total TPH	PHC635	<14.9	14.9		mg/kg	07.19.18 16.49	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	07.19.18 16.49		
o-Terphenyl		84-15-1	104	%	70-135	07.19.18 16.49		



Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



QC Summary 592670

TRC Solutions, Inc ABO SWD #2

Prep Method: TX1005P Date Prep: 07.19.18

Analytical Method:	TPH by SW8015 M	od					
Seq Number:	3057120			Matrix:	Solid		
MB Sample Id:	7658750-1-BLK		LCS Sat	nple Id:	7658750-	1-BKS	
Parameter	MB Result	Spike A mount	LCS Result	LCS	LCSD Bogult		Li

MB Sample Id:	7658750-1	I-BLK		LCS Sar	nple Id:	7658750-	1-BKS		LC	SD Sample	ld: 765	8750-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPE	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydroca	rbons (GRO)	<15.0	1000	958	96	969	97	70-135	1	20	mg/kg	07.19.18 13:08	
Diesel Range Organic	s (DRO)	<15.0	1000	986	99	1000	100	70-135	1	20	mg/kg	07.19.18 13:08	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re		_	Limits	Units	Analysis Date	
1-Chlorooctane		95		1	22		123		2	0-135	%	07.19.18 13:08	
o-Terphenyl		101		1	13		114		7	0-135	%	07.19.18 13:08	

Analytical Method: Seq Number: Parent Sample Id:	TPH by S 3057120 592471-00		od		Matrix: nple Id:	Soil 592471-0	01 S			rep Methoo Date Prep D Sample I	p: 07.1	1005P 9.18 471-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<15.0	998	912	91	923	92	70-135	1	20	mg/kg	07.19.18 14:09	
Diesel Range Organics ((DRO)	<15.0	998	941	94	957	96	70-135	2	20	mg/kg	07.19.18 14:09	
Surrogate					IS Rec	MS Flag	MSD %Rec			mits	Units	Analysis Date	
1-Chlorooctane				1	24		125		70	-135	%	07.19.18 14:09	
o-Terphenyl				1	12		118		70	-135	%	07.19.18 14:09	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)	Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA),See Label (L), Other (O) Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA),See Label (L), Other (O) Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA),See Label (L), Other (O) Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA),See Label (L), Other (O) Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA),See Label (L), Other (O) Preservatives: Various (V), H2 pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA),See Label (L), Other (O) Preservatives: Various (V), H2 pH<2 (H), H2 pH<2 (H2 pH), H2 pH,		1) Front	Relinquished										NO FLO		QAPP Per-Contract CLP AGCEE NAVY Special DLs (GW DW QAPP MDLs RLs Sampler Name Recently CAPP MDLs If Sampler ID Sample ID Date	Quote/Pricing: Reg Program:	NJ, PA, SC, IN, OT Other E-mail Results to ECD CDETOTT CD CDETOTT Invoice to CACcounting Bill to:	j. State: TX, AL,	Project Name Location	Company-City	ENCO boratories
Product	Various ((4). 8oz	A Ver		pÅ (•			-				DOL				Accounting	I, FL, G		5	
(P), Solid	(V), HCl pł (8), 32oz			Initials and Sign)										-1-4		DAPP MDL	DRY-CLEAN	r ∵ior ei	FL, GA, LA, MS, NC,	# ~		4143 Gree 5332, Blac
(S), Wate	+<2 (H), H (32), 40r	C	2	ign)										1-18		MDLs RLs MDLs RLs Sampling Date	Land-I	BCooper UTIONS		reviously (nbriar Drive kberry Drive
r (W), Liq	12SO4 pH	ļ	11/1	Date										10:30		DOE See Lal	P.O. No: Fill Waste-Disp	nd BCooperio	Proj. Manager (PM)	GFFreviously done at XENCO	1	4143 Greenbriar Drive, Stafford, TX 77477 28 5332, Blackberry Drive, San Antonio, TX 78238
uid (F)	I<2 (S), Ю), 1L (1		2017	& Time										Ŵ	• f				ager (PN		2/2	Ň1
nd relingui	HNO3 pH I), 500m	6)	4:324 200	Re											1	In" m atrix omposite rab Containers	NPDES		J J		Phone	
shment of t	<2 (N), A: (5), Tedi			Relinquished to (Initials											#		DW TRRP	□Invoice must have a P.O.		Project ID	4452	1-240-4200 210-509-3334
	sbc Acid8 ar Bag (B		a Ja	d to (Initi											+	ontainer Size	Call for P.O.	a P.O.		Ū	Ö	
Committed to Excellence in S	,NaOH (A), Variou		acrivio	als and Sign)										6	-\	reservatives				TAT:	Lab	
to E), Zn∕ ≶(X),			ign)				1_]	-		-	\downarrow	_	-+		Appdx-2	CALL Other:		TAT: ASAP It is typically 5	Lab Only:	9701 Harry Hines Blvd., Dallas, 12600 West I-20 East, Odessa,
XCE	Othe			+-	-			1-						+		AHs SIM 8310 8270 X-1005 DRO GRO MA EPH	MA VI	PH		₩ 5-7		y Hine st I-20
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Ser ler fro	Cool,		had a	13												/letals: RCRA-8 RCRA-4 Pb 13 PLP - TCLP (Metals VOCs S						
ervice and Quality from client company to Xenco Laboratories and its affiliates.	<4C)	L	C Va											-		EDB / DBCP	50003 1	eat. nois. r	,	48h 3d 5d /d 10d 21d Stationard (A) is project pro- ys for level II and 10+ Working days for level III and IV data	1	TX 75220 TX 79765
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	Clear (C),		al rep Fees a	ellect			_	_		-	+	+	+	_	<u> </u>	Addn: PAH above mg/L W,	, mg/Kg	g S Highest H	it	III and IV data.	6	ω
	P		ort is	ual P			+		-+	+	+	╉	+	\neg		Hold Samples (Surcharges will a	apply and	are pre-approve	ed)	ta.		11
WW	astic		Unierwise agreed on mining or correct and final report is e-mailed unless Gatil paid. Samples will be held 30 days after final report is e-mailed unless	e Intellectual Propert	╘┝	+	╉	-+-	┽	+	+	+	╉			Sample Clean-ups are pre-appro					C	Page
N.X0	(P),/		iled u provec	s l																Remarks		
WWW.Xerico.com	Plastic (P), Various (V)		Unierwise agreed on mining roop of the second secon	Total Containers per CUC:																rks		of
	is (V)		eded.	이	┢	+	+		+	+	+					Addn: Date F	Rcv. by:	From:				
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ANALYSIS REQUEST & CHAIN OF CUSIOUT RECORD

Notice: Signature of this document and relinquisinment of these samples constructions and estimate a fully executed client contract.

ENVIRONMENTAL SOLUTIONS		Customer: Customer # Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	CRI CHU NA 6/22	JCK JOHNS /2018 ATA TRUC	STON		Ticket #: Bid #: Date: Generator: Generator #: Well Ser, #: Well Ser, #: Well Name: Well #: Field: Field #: Rig: County	700-9048 Walk-in B 6/22/2018 VANGUAI 03849 ABO SWE 002 NON-DRII LEA (NM)	id RD) ROC	
Facility: CRI										
Product / Service					Qu	iantity U	nits			
Contaminated Soil (RC	RA Exemp	t)				20.00 y	/ards			
Cell	pН	Cl Cor	ıd.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis: 50/51	0,00	0.00 0.0	00	0		******				hanndon nada an

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

 <u>X</u> RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 26121-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
 <u>MSDS Information</u> <u>RCRA Hazardous Waste Analysis</u> <u>Process Knowledge</u> <u>Other (Provide description above)</u>

Driver/ Agent Signature

Manetice Soul

Customer Approval

R360 Representative Signature

THIS IS NOT AN INVOICE!

Approved By:

TRANSPORTER'S MANIFEST						
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:					
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T17S, R36E Location: Lea Co, NM API: 30-025-03849					
TRANSPORTERS NAME AND ADDRESS:						
M Mata Trucking,						
PO BOX 1263, Hobbs, NM, 88241						
DESCRIPTION OF WASTE:						
E&P EXEMPT IMPACTED SOIL						
VOLUME:						
FACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: CMJAA Date: 6-J0-18					
NAME OF TRANSPORTER: (DRIVER) MMATA Tro #39201/06d	14519 Name: JUCH Galaviz Signature: 4792 Date: 6/21/18					
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: Marta					
Direct Bill: Care Of:	Vanguard Operating, LLC Kvle Zimmerman					

360	Customer: Customer #: Ordered by: AFE #: PO #:	VANGUARD PERMIAN CRI5830 CHUCK JOHNSTON	Ticket #: Bid #: Date: Generator: Generator #:	700-904874 Walk-in Bid 6/22/2018 VANGUARD
ENVIRONMENTAL	Manifest #:	NA	Well Ser. #:	03849
SOLUTIONS	Manif. Date:	6/22/2018		ABO SWD ROC
Permian Basin	Hauler: Driver Truck #	M MATA TRUCKING LLC JUAN 39	Well #: Field: Field #:	002
	Card #		Rig:	NON-DRILLING
	Job Réf#		County	LEA (NM)
Facility: CRI				
Product / Service		Quantity	Units	ŧ
Contaminated Soil (RCRA Exemp	ot)	20.00	0 yards	

PCI/GM MR/HR H2S % Oil Weight Celi Cl Cond. %Solids TDS pH Lab Analysis: 50/51 0.00 0.00 0.00 Ō

Generator Certification Statement of Waste Status

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_____MSDS Information _____RCRA Hazardous Waste Analysis _____Process Knowledge ____Other (Provide description above)

Driver/ Agent Signature Customer Approval

R360 Representative Signature

THIS IS NOT AN INVOICE!

Approved By:

Date:

6/22/20 11 .

TRANSPOR	TER'S MAN	NIFEST
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T17S, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		
DESCRIPTION OF WASTE:		
E&P EXEMPT IMPACTED SOIL VOLUME: 20		
FACILITY CONTACT: Chuck Johnston Kylozimmerman Vanguard Operating, LLC. 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: CMphA Date: <u>6-J0-18</u>
NAME OF TRANSPORTER: (DRIVER) M. MATA TRUCKING BOLLY DUMP TRUCK # +50		Name: Jalo Signature: TA Date: 6-21-18
<u>DISPOSAL SITE:</u> R360 Halfway Facility 4507 W Carisbad Hwy PO Box 388 Hobbs, NM 88241		Signature: T. Maninur Date: 422/18
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman

A B B B B B B B B B B B B B B B B B B B	AFE #: PO #: Manifest #:	VANGUARD PERMIAN CRI5830 CHUCK JOHNSTON NA 6/22/2018 M MATA TRUCKING LLG LALO 150	Well Name: Well #: Field; Field #: Rig:	700-904876 Walk-in Bid 6/22/2018 VANGUARD 03849 ABO SWD ROC 002 NON-DRILLING LEA (NM)
Facility: CRI			·	
Product / Service		Quan	itity Units	
Contaminated Soll (RCRA Exempt)		20.00 vards	

			• •									
44	Cell	рН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight	
Lab Analysis: 5	0/51	0.00	0.00	0,00	0	****						

F.T

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart 10, as

amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): _______MSDS Information ______RCRA Hazardous Waste Analysis ______Process Knowledge _____Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Sustomer Approval

THIS IS NOT AN INVOICE!

Approved By:

TRANSPORTER'S MANIFEST					
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:				
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849				
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241					
DESCRIPTION OF WASTE:					
E&P EXEMPT IMPACTED SOIL					
VOLUME:					
FACILITY CONTACT: Chuck, Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: ChiphA Date: <u>6-30-18</u>				
NAME OF TRANSPORTERY (DRIVER) M Mata TI #39 201/060	Name: Ston Galaure				
Twee # 12 '	Signaturd: 4755 Date: 6/21/18				
<u>DISPOSAL SITE:</u> R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388	Signature:				
Hobbs, NM 88241	Date: URUIS				
	sili: Vanguard Operating, ILC Of: Kyle Zimmerman				

BASIC CONTROLINENTAL SOLUTIONS	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	VANGUARD F CRI6830 CHUCK JOHN NA 6/22/2018 M MATA TRU6 ADRIAN 12	ISTON		Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	03849	d RD ROC	
Facility: CRI								
Product / Service			Q	uantity U	nits			
Contaminated Soil (RCRA Exempl	t)			20.00	yards			
<u>Cell</u> pH	Cl Cond	l. %Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight

0.00

0.00

0.00

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart 10, us

amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

____ MSDS Information ____ RCRA Hazardous Waste Analysis ____ Process Knowledge ____ Other (Provide description above)

Ö

Driver/ Agent Signature

Lab Analysis: 50/51

Customer Approval

R360 Representative Signature

THIS IS NOT AN INVOICE!

Approved By: ___

Date: ___

TRANSPORTER'S M	ANIFEST
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	n
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL	
VOLUME:	
FACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LI.C 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: ChiphA Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER) MMata Tra #39201/060	Name: JUCIN Gelavre Signature: 190 Date: 6/21/18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: Mathe Date: U.R.&U.K
⊀≨ . Direct βi Care C	

INVIRONMENTAL SOLUTIONS	AFE #: PO #: Manifest #:	VANGUARD PERMIAN CRI5830 CHUCK JOHNSTON NA 6/22/2018 M MATA TRUCKING LL JUAN 39	.c	Well #: Field: Field #: Rig:	
*acility; CRI					
Product / Service		Qu	antity Ur	nits	
Contaminated Soil (RCRA Exempt)		20.00 y	ards	

CI

0.00

Cond.

0.00

pН

0.00

Cell

.ab Analysis: 50/51

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is:

TDŞ

PCI/GM

MR/HR

H2S

% Oil

Weight

_____MSDS Information ______BCRA Hazardous Waste Analysis _____ Process Knowledge ____ Other (Provide description above)

%Solids

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)river/ Agent Signature Sustomer Approva

R360 Representative Signature

THIS IS NOT AN INVOICE!

Approved By,-

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EKVIADONMENTAL Stolutions		NFE #; PO #; Manifest #; Manif, Date; Hauler; Priver	VANGUARD CRI5830 CHUCK JOHI NA 6/22/2018 M MATA TRU SAUL 38	NSTON		Ticket #: Bid #: Date: Generator: Generator # Well Ser. #: Well Name: Well #: Field : Field #: Rig; County	03849	Bid 8 ARD D ROC ILLING	
Facility: CRI									
Product / Service				Q	uantity U	nits			
Contaminated Soil (RCR/	A Exempt)				20.00				
Cell pl	*****	Cond	. %Solids	TDS	PCI/GM	·	H2S	% Oil	Weight
Lab Analysis: 50/51 0,	.00 0.0	0 0.00	0					70 V/I	vvelynt

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

X RCRA Exempt: Oll Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): ____MSDS Information ____RCRA Hazardous Waste Analysis ___ Process Knowledge ___ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Mandemer

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:

Date:

TRANSPOR	RTER'S MA	NIFEST
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Šuite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T17S, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		
DESCRIPTION OF WASTE:		9799 - Maria Managara ang Pangarang Pangarang Pangarang Pangarang Pangarang Pangarang Pangarang Pangarang Pang
E&P EXEMPT IMPACTED SOIL		
VOLUME:		
FACILITY CONTACT: Chuck Johnston Kyle Zimmermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: ChiphA Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER) M. MATH JRUCKING BOWY DUMP TWICK HE HER 38		Name: <u>Lato</u> Saul Signature: <u>ET</u> Date: <u>C-21-18</u>
<u>IISPOSAL SITE:</u> 360 Halfway Facility 507 W Carlsbad Hwy O Box 388 iobbs, NM 88241		Signature: JP Autono Date: U/2018
	Direct Bill: Care Of:	Yanguard Operating, LLC Kyle Zimmerman

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TRANSPORTER'S MANIFEST						
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:					
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752		Site: ABO SWD #2 Legals: UL *C*, Sec. 2, T17S, R35E Location: Leg Co, NM API: 30-025-03849				
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241						
DESCRIPTION OF WASTE:	*****					
FACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: CMJAA Date: 6-J0-18				
NAME OF TRANSPORTER: (DRIVER) M. MATH TRUCKING BOLLY DUMP TRUCK # +50		Name: Julo Signature: EV Date: 6-21-18				
<u>DISPOSAL SITE:</u> R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		signature: T. Marinu7 Date: 422/18				
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman				

ENVIRONMENTAL SOLUTIONS	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif, Date: Hauler; Driver Truck # Card # Job Ref #	VANGUARD PERM CRI5830 CHUCK JOHNSTO NA 6/22/2018 M MATA TRUCKING LALO 150	N	Ticket #: Bid #: Date: Generator: Generator # Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	03849	RD RD DROC	
Facility: CRI							
Product / Service			Quantity U	Inits			
Contaminated Soil (RCRA Exem)	ot)		20.00	yards			
Cell pH	Cl Con		S PCI/GN	MR/HR	H2S	% Oil	Weight
Lab Analysis: 50/51 0.00	0.00 0.0	0 0		*****		rterr-unden zun i serdi ni adti nabibili i si i	

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-___ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart ID, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

____ MSDS Information ____ RCRA Hazardous Waste Analysis ____ Process Knowledge ____ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:

ENVIRONMENTAL	AFE #; PO #:	CHUCK JOHNSTON	Ticket #: Bid #: Date: Generator: Generator #:	
SOLUTIONS TREET	Manifest #: Manif. Date:	NA 6/25/2018	Well Ser. #: Well Name:	03849 ABO SWD ROC
Permian Basin	Hauler: Driver Truck #	M MATA TRUCKING LLC JUAN 39	Well #: Field: Field #:	002
	Card # Job Ref #		Rig: Countv	NON-DRILLING LEA (NM)
Facility: CRI			.,	
Product / Service		Quantity 1	Inits	
Contaminated Soil (RCRA Exemp	ot)	20.00	yards	

CI

0.00

Cond.

0.00

pН

0.00

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

TDS

PCI/GM

MR/HR

H₂S

% Oil

Weight

%Solids

Ō

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart I), as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_____MSDS Information ______BERA Hazardous Waste Analysis _____ Process Knowledge ____ Other (Provide description above)

Driver/ Agent Signat	re 1.8 Add
Customer Approval	
	/ •••••

Cell

Lab Analysis: 50/51

R360 Representative Signature

THIS IS NOT AN INVOICE!

Approved By: _

TRANSPORTER'S MANIFEST					
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL				
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849				
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241					
DESCRIPTION OF WASTE:	***************************************				
E&P EXEMPT IMPACTED SOIL					
VOLUME:					
FACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: ChiphA Date: 6-30-18				
NAME OF TRANSPORTER: (DRIVER) MMata #39201/060	Trucking Name: Jucin Galaurz Signature: Age Date: 6/21/18				
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: MARS				
ε. Έ.	irect 8ili: Vanguard Operating, LLC Care Of: Kyle Zimmerman				

ENVIRONMENTAL SOLUTIONS	Customer: Customer #; Ordered by: AFE #; PO #; Manifest #; Manif. Date: Hauler; Driver Truck # Card # Job Ref #	VANGUARD F CRI5830 CHUCK JOHN NA 6/25/2018 M MATA TRU0 ADRIAN 12	STON	.C	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-90552 Walk-in Bi 6/25/2018 VANGUAF 03849 ABO SWD 002 NON-DRIL LEA (NM)	d RD) ROC	
Facility: CRI								
Product / Service			Qı	lantity Ur	nits			
Contaminated Soil (RCRA Exem)	ot)			20.00 y	ards			
Cell pH	Cl Con	d. %Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight

0.00

0.00

0.00

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

ñ

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt; Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by

characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D. as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): _______MSDS Information ______RCRA Hazardous Waste Analysis ______Process Knowledge ______Other (Provide description above)

Driver/ Agent Signature

Lab Analysis; 50/51

Customer Approval

R360 Representative Signature

THIS IS NOT AN INVOICE!

Approved By:

TRANSPORTER'S	NIAMIFEST X
HIPPERS FACILITY NAME AND ADDRESS	LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Legals: UL."C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL	
VOLUME:	
FACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: ChiphA Date: 6-30-18
NAME OF TRANSPORTERYIDRIVERI M Mata #39 201/06d Truck #12	- Trocking Adrian G Name: Jeson Graduure Signature: 1390 Date: 6/21/18
<u>DISPOSAL SITE:</u> R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	signature: MAUS
	Direct Bill: Vanguard Operating, LLC Care Of: Kyle Zimmerman

ENVIRONMENTAL SOLUTIONS	AFE #: PO #: Manifest #:	CHUCK JOHNSTON 310396	Ticket #; Bid #: Date: Generator: Generator #; Well Ser. #: Well Name:	700-905529 Walk-in Bid 6/25/2018 VANGUARD 03849 ABO SWD ROC
Permian Basin	Hauler: Driver Truck # Card # Job Ref #	M MATA TRUCKING LLC LALO 150	Well #: Field: Field #: Rig: County	NON-DRILLING LEA (NM)
Facility: CRI				
Product / Service		Quantity	Units	!
Contaminated Soil (RCRA Exempt	t)	20,00) yards	

	(F • 7				10.00 Jul	40			
	Cell	pН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waster RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by

characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): _______MSDS Information ______RCRA Hazardous Waste Analysis ______Process Knowledge ______Other (Provide description above)

Driver/ Agent Signature	R360 Representative Signature
Customer Approval	
THIS	S IS NOT AN INVOICE!
Approved By:	Date:

			ZARDOUS OILFIELD WASTE (PLEASE PRINT)	Name CK	UCU. Johnst
		G	ENERATOR		396
perator No.			Permit/RRC No.	- 3103	90
	Guard	Comian	Lease/Well	ABO JUN DO	(000)
ddress	June Ca		Name & No.	FILUSUP NU	
			County	4	
		·····	API No.		
ity, State, Zip			Rig Name & No.	al 1000 fig. (r. 1919) - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 19	
hone No,			AFE/PO No.		
	EXEMPT E&P Was	ste/Service Identification and A	mount (place volume next to wa	aste type in barrels or cubic yards)	
a and and a		NON-INJECTABLE WATERS		INJECTABLE WATERS	
ll Gased Cuttings Jater Based Muds		Washout Water (Non-Injectable)		Washout Water (Injectable)	
later Based Cuttings		Completion Fluid/Flow back (Non-Ir Produced Water (Non-Injectable)	njectable)	Completion Fluid/Flow back (injectable)	
oduced Formation Solids		Gathering Line Water/Waste (Non-I	niestable)	Produced Water (Injectable)	
ink Bottoms		INTERNAL USE ONLY		Gathering Une Water/Waste (injectable) OTHER EXEMPT WASTES (type and generation	
kP Contaminated Soil as Plant Waste	_20	Truck Washout (exempt waste)	·	Contraction of the site Beneration	an process of the waster
ASTE GENERATION PROCESS	: 📋	DRILLING			HERING LINES
		NON-EXEMPT F&P W	aste/Service Identification and Amou		
Ailı	non-exempt E&P wa	iste must be analysed and be below	the threshold limits for taxicity (TCLP	int ?), Ignitability, Corrosivity and Reactivity.	
n-Exempt Other				π Non-Exempt Waste List on back	
ANTITY					
		Ð - BARRELS	L - LIQUID	rcy's July 1988 regulatory determination, 1	E - EACH
_ RCRA NON-EXEMPT:	On held waste which	n is non-nazardous that does not exc	ceed the minimum standards for was	the house does no shows a second se	
	hazardous is attache MSDS Information Emergency non-haz	ed. (Check the appropriate items as i RCRA Huzardous W radous, non-oilfeild waste that has b	Verk, part 253, subpart D, its amen provided) /aste Analysis	te hazardous by characteristics astabilishe aded. The following documentation demor Other (Provide Description Below) 	istrating the waste as non-
	hazardous is attachi MSDS Information Emergency non-haz determination and a	ed. (Check the appropriate items as RCRA Hazardous W	Verk, part 253, subpart D, its amen provided) /aste Analysis	ided. The following documentation demor	istrating the waste as non-
	hazardous is attachi MSDS Information Emergency non-haz determination and a	ed. (Check the appropriate items as i RCRA Hazardous W radous, non-oilfeild waste that has b a desciption of the waste must accor	Au Crw, part 201, subpart D, its amen provided) faste Analysis c peen ordered by the Department of P mpany this form) 	ided. The following documentation demor Other (Provide Description Below)	istrating the waste as non-
(PRINT) AUTHORIZED AGENTS H	hazardous is attachi MSDS Information Emergency non-haz determination and a	ed. (Check the appropriate items as i RCRA Hazardous W radous, non-oilfeild waste that has b a desciption of the waste must accor	Au Crw, part 201, subpart D, its amen provided) faste Analysis c peen ordered by the Department of P mpany this form)	ided. The following documentation demor Other (Provide Description Below) Public Safety (the order, documentation of	istrating the waste as non-
(PRINT) AUTHORIZED AGENTS ((PRINT) AUTHORIZED AGENTS (SPORTER'S	hazardous is attachi MSDS Information Emergency non-haz determination and a	ed. (Check the appropriate items as i RCRA Hazardous W radous, non-oilfeild waste that has b a desciption of the waste must accor	All CFK, part 201, subpart D, its amen provided) faste Analysis c peen ordered by the Department of P inpany this form) 	ided. The following documentation demor Other (Provide Description Below) Public Safety (the order, documentation of	istrating the waste as non-
PRERGENCY NON-OILFEILD: (PRINT) AUTHORIZED AGENTS A Sporter's	hazardous is attachi MSDS Information Emergency non-haz determination and a	ed. (Check the appropriate items as i RCRA Hazardous W radous, non-oilfeild waste that has b a desciption of the waste must accor	Vacerx, part 201, subpart D, as amen provided) (raste Analysis c been ordered by the Department of P mpany this form) 	ided. The following documentation demor Other (Provide Description Below) Public Safety (the order, documentation of	istrating the waste as non-
CPRINT AUTHORIZED AGENTS A SPOTTER'S B	hazardous is attachi MSDS Information Emergency non-haz determination and a	ed. (Check the appropriate items as i RCRA Hazardous W radous, non-oilfeild waste that has b a desciption of the waste must accor	All CFK, part 201, subpart D, its amen provided) faste Analysis c peen ordered by the Department of P inpany this form) 	ided. The following documentation demor Other (Provide Description Below) Public Safety (the order, documentation of	istrating the waste as non-
EMERGENCY NON-OILFEILD; (PRINT] AUTHORIZED AGENTS H sporter's e ess	hazardous is attachi MSDS Information Emergency non-haz determination and a	ed. (Check the appropriate items as i RCRA Hazardous W radous, non-oilfeild waste that has b a desciption of the waste must accor	Vacerx, part 201, subpart D, as amen provided) (raste Analysis c been ordered by the Department of P mpany this form) 	ided. The following documentation demor Other (Provide Description Below) Public Safety (the order, documentation of	istrating the waste as non-
EMERGENCY NON-OILFEILD; (PRINT) AUTHORIZED AGENTS // Sporter's 9 ess e No.	hazardous is attachi MSDS Information Emergency non-haz determination and a ume	ed. (Check the appropriate items as i RCRA Hazardous W radous, non-oilfeild waste that has b a desciption of the waste must accor TRA	Vacer, part 201, subpart D, as amen provided) (aste Analysis c peen ordered by the Department of P npany this form) 	Ided. The following documentation demor Other (Provide Description Below) Public Safety (the order, documentation of SIGMATURE	non-hazardous waste
EMERGENCY NON-OILFEILD; (PRINT AUTHORIZED AGENTS // sporter's e ess ie No.	hazardous is attachi MSDS Information Emergency non-haz determination and a ume	ed. (Check the appropriate items as i RCRA Hazardous W radous, non-oilfeild waste that has b a desciption of the waste must accor TRA	Vacer, part 201, subpart D, as amen provided) (aste Analysis c peen ordered by the Department of P npany this form) 	Ided. The following documentation demor Other (Provide Description Below) Public Safety (the order, documentation of SIGMATURE	non-hazardous waste
EMERGENCY NON-O(LFEILD; (PRINT) AUTHORIZED AGENTS / P P P P P P P P P P P P P P P P P P P	hazardous is attachi MSDS Information Emergency non-haz determination and a ume MMATA t i material(s) was/we	ed. (Check the appropriate items as p RCRA Hazardous W radous, non-oilfeild waste that has b a desciption of the waste must accor TRA	Vacer, part 201, subpart D, as amen provided) (aste Analysis c peen ordered by the Department of P npany this form) 	Ided. The following documentation demor Other (Provide Description Below) Public Safety (the order, documentation of SIGNATURE LALO LSD peident to the disposal facility listed below	non-hazardous waste
EMERGENCY NON-O(LFEILD: (PRINT) AUTHORIZED AGENTS (sporter's e ress ie No. eby certify that the above named SHIPMERT DATE	hazardous is attach MSDS Information Emergency non-haz determination and a MME MMATA I material(s) was/we O	ed. (Check the appropriate items as i RCRA Hazardous W radous, non-oilfeild waste that has b a desciption of the waste must accor TRA	Vacer, part 201, subpart D, as amen provided) (aste Analysis c peen ordered by the Department of P npany this form) 	Ided. The following documentation demor Other (Provide Description Below) Public Safety (the order, documentation of SIGNATURE LALO LSD peident to the disposal facility listed below X.F.GMUS	non-hazardous waste
EMERGENCY NON-O(LFEILD; (PRINT) AUTHORIZED AGENTS / P P P P P P P P P P P P P P P P P P P	hazardous is attach MSDS Information Emergency non-haz determination and a MME MMATA I material(s) was/we O	ed. (Check the appropriate items as propriate items as propriate items as produces and the second se	Al CEN, part 201, subpart D, as amen provided) (raste Analysis c peen ordered by the Department of P mpany this form) Date NSPORTER Driver's Name Print Name Print Name Phone No. Truck No. listed above and delivered without in OEUVERY D	Differ (Provide Description Below) Public Safety (the order, documentation of SIGNATURE LALO LSD Acident to the disposal facility listed below ATE Datyon	non-hazardous waste
EMERGENCY NON-OILFEILD: (PRINT) AUTHORIZED AGENTS / sporter's e ress ine No. Eby certify that the above named SHIPMERT DATE TRUCK TIM	hazardous is attachi MSDS Information Emergency non-haz determination and a ume MMATA I material(s) was/we out E STAMP	ed. (Check the appropriate items as propriate items as propriate items as produces and the second se	All CFK, part 201, subpart D, iss amen provided) (aste Analysis c preen ordered by the Department of P inpany this form) 	In the following documentation demon Public Safety (the order, documentation of SIGNATURE LALO SIGNATURE LALO SIGNATURE SIGNA	non-hazardous waste
EMERGENCY NON-OILFEILD: (PRINT) AUTHORIZED AGENTS // sporter's e ress ie No. eby certify that the above named SHIPMENT DATE TRUCK TIM	hazardous is attach MSDS Information Emergency non-haz determination and a MME MMATA I material(s) was/we O	ed. (Check the appropriate items as propriate items as propriate items as produces and the second se	Al CEN, part 201, subpart D, as amen provided) (raste Analysis c peen ordered by the Department of P mpany this form) Date NSPORTER Driver's Name Print Name Print Name Phone No. Truck No. listed above and delivered without in OEUVERY D	Differ (Provide Description Below) Public Safety (the order, documentation of SIGNATURE LALO LSD Acident to the disposal facility listed below ATE Daives	non-hazardous waste
EMERGENCY NON-OILFEILD: (PRINT) AUTHORIZED AGENTS H sporter's a exs ie No. aby certify that the above named SHIPMENT DATE TRUCK TIM (ame/	hazardous is attachi MSDS Information Emergency non-haz determination and a ume MMATA I material(s) was/we or IE STAMP DUT:	ed. (Check the appropriate items as propriate items as propriate items as produces and the second se	All CFN, part 201, subpart D, as amen provided) (raste Analysis c preen ordered by the Department of P mpany this form) DATE NSPORTER Driver's Name Print Name Phone No. Truck No. listed above and delivered without in OEUVERY O SAL FACILITY	Dther (Provide Description Below) Public Safety (the order, documentation of SIGMATURE CO.IO SIGMATURE CO.IO SIGMATURE RECEIVING A Name/No.	non-hazardous waste
EMERGENCY NON-OILFEILD: (PRINT) AUTHORIZED AGENTS H sporter's e sporter's e so eNo. eby certify that the above named shipMear part TRUCK TIM fame/ it No. Halfway facility / Ni	hazardous is attachi MSDS Information Emergency non-haz determination and a ume MMATA I material(s) was/we OIE STAMP DUT:		All CFN, part 201, subpart D, as amen provided) (raste Analysis c preen ordered by the Department of P mpany this form) DATE NSPORTER Driver's Name Print Name Phone No. Truck No. listed above and delivered without in OEUVERY O SAL FACILITY	In the following documentation demon Public Safety (the order, documentation of SIGNATURE LALO SIGNATURE LALO SIGNATURE SIGNA	non-hazardous waste
EMERGENCY NON-OILFEILD: (PRINT) AUTHORIZED AGENTS // sporter's e sporter's e so FilipMent part ShipMent part TRUCK TIM fame/ it No. Halfway Facility / Ni 255 6601 Hobbs Hwy US	hazardous is attach MSDS Information Emergency non-haz determination and a MME MMA I material(s) was/we 0 IE STAMP OUT:	ed. (Check the appropriate items as program of the appropriate items as produced and the second seco	Al CFN, part 201, subpart D, es amen provided) (raste Analysis c peen ordered by the Department of P mpany this form) Date NSPORTER Driver's Name Print Name Phone No. Truck No. listed above and delivered without in OEUVERY O SAL FACILITY Phone No. 57	Ate (Provide Description Below) Public Safety (the order, documentation of SIGNATURE COLO SIGNAT	non-hazardous waste
EMERGENCY NON-OILFEILD; (PRINT] AUTHORIZED AGENTS // sporter's e ess e No. eby certify that the above named SHIPMENT DATE TRUCK TIM fit No. Halfway Facility / Ni 553 6601 Hobbs Hwy US NORM READINGS TAKE	hazardous is attachi MSDS Information Emergency non-haz determination and a material(s) was/we DIT: DUT: M1-006 5 62/180 Mile Marke EN? (Circle One)	ed. (Check the appropriate items as program items as propriate items as produces and the second seco	Al CFN, part 201, subpart D, es amen provided) (raste Analysis c peen ordered by the Department of P mpany this form) Date NSPORTER Driver's Name Print Name Phone No. Truck No. listed above and delivered without in OEUVERY O SAL FACILITY Phone No. 57	Ided. The following documentation demon Other (Provide Description Below) Public Safety (the order, documentation of SIGMATURE LALO SIGMATURE DATE Dayses RECEIVING A Name/No. S-393-1079	non-hazardous waste
EMERGENCY NON-OILFEILD: (PRINT) AUTHORIZED AGENTS // sporter's e sporter's e so FilipMent part ShipMent part TRUCK TIM fame/ it No. Halfway Facility / Ni 255 6601 Hobbs Hwy US	hazardous is attachi MSDS Information Emergency non-haz determination and a material(s) was/we DIT: DUT: M1-006 5 62/180 Mile Marke EN? (Circle One)	ed. (Check the appropriate items as provide a spropriate items as provide a spropriate items as provide a second s	Al CFN, part 201, subpart D, es amén provided) (raste Analysis c been ordered by the Department of P mpany this form) Date NSPORTER Driver's Name Print Name Print Name Phone No. Truck No. listed above and delivered without in OEUVERY D SAL FACILITY Phone No. 57 If YES, was reading > NO	Ided. The following documentation demon Other (Provide Description Below) Public Safety (the order, documentation of SIGMATURE LALO SIGMATURE DATE Dayses RECEIVING A Name/No. S-393-1079	non-hazardous waste
EMERGENCY NON-OILFEILD: (PRINT] AUTHORIZED AGENTS // Press Press P	hazardous is attachi MSDS Information Emergency non-haz determination and a ume MATA I material(s) was/we out I material(s) was/we out I STAMP OUT: M1-006 S 62/180 Mile Marke EN? (Circle One) ST7 (Circle One)	ed. (Check the appropriate items as i RCRA Hazardous W radous, non-oilfeild waste that has b a desciption of the waste must accor TRA ere picked up at the Generator's site nivers sonaruse DISPO YES YES YES YES TANK	Al CFN, part 201, subpart D, as amen provided) (raste Analysis c peen ordered by the Department of P mpany this form) Date NSPORTER Driver's Name Print Name Print Name Phone No. Truck No. listed above and delivered without in OEUVERY D SAL FACILITY Phone No. 57 if YES, was reading >	Ided. The following documentation demon Other (Provide Description Below) Public Safety (the order, documentation of SIGMATURE LALO SIGMATURE DATE Dayses RECEIVING A Name/No. S-393-1079	non-hazardous waste
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EMERGENCY NON-OILFEILD: (PRINT] AUTHORIZED AGENTS // ress ne No. reby certify that the above named SHIPMENT DATE TRUCK TIM SHIPMENT DATE TRUCK TIM CONTRESS 6601 Hobbs Hwy US NORM READINGS TAKE PASS THE PAINT FILTER TE auge isauge	hazardous is attachi MSDS Information Emergency non-haz determination and a ume MATA I material(s) was/we out I material(s) was/we out I STAMP OUT: M1-006 S 62/180 Mile Marke EN? (Circle One) St7 (Circle One)	ed. (Check the appropriate items as provide a spropriate items as provide a spropriate items as provide a second s	Al CFN, part 201, subpart D, es amén provided) (raste Analysis c peen ordered by the Department of P mpany this form) Date NSPORTER Driver's Name Print Name Print Name Phone No. Truck No. listed above and delivered without in OEUVERY D SAL FACILITY Phone No. 57 If YES, was reading > NO BOTTOMS	In the following documentation demon Dther (Provide Description Below) Public Safety (the order, documentation of SIGNATURE COLO SIGNATURE COLO SIGNATURE COLO SIGNATURE COLO SIGNATURE COLO SIGNATURE COLO SIGNATURE COLO SIGNATURE COLO SIGNATURE COLO SIGNATURE SIGNA	non-hazardous waste
EMERGENCY NON-OILFEILD: (PRINT) AUTHORIZED AGENTS // SEPORTER'S IN PROVIDENT OF CONTRACT OF CONTRACT SHIPMENT DATE TRUCK TIM SHIPMENT DATE TRUCK TIM	hazardous is attachi MSDS Information Emergency non-haz determination and a ume MATA I material(s) was/we out I material(s) was/we out I STAMP OUT: M1-006 S 62/180 Mile Marke EN? (Circle One) St7 (Circle One)	ed. (Check the appropriate items as provide a spropriate items as provide a spropriate items as provide a second s	Al CFN, part 201, subpart D, es amén provided) (raste Analysis c peen ordered by the Department of P mpany this form) Date NSPORTER Driver's Name Print Name Print Name Phone No. Truck No. listed above and delivered without in OEUVERY D SAL FACILITY Phone No. 57 If YES, was reading > NO BOTTOMS	In the following documentation demon Dther (Provide Description Below) Public Safety (the order, documentation of SIGNATURE COLO SIGNATURE COLO SIGNATURE COLO SIGNATURE COLO SIGNATURE COLO SIGNATURE COLO SIGNATURE COLO SIGNATURE COLO SIGNATURE COLO SIGNATURE SIGNA	Instrating the waste as non- non-hazardous waste

SOLUTIONS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	CHUCK JOHNSTON	Ticket #: Bid #: Date: Generator: Generator # Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-905532 Walk-in Bid 6/25/2018 VANGUARD 03849 ABO SWD ROC 002 NON-DRILLING LEA (NM)		
Facility: CRI						
Product / Service Contaminated Soil (RCRA Exempt)	4)	Quantity Units				
- sugarmated oon (north Exemp	U)		20.00 yards			

Lab Analysis: 50/51 0.00 0.00 0.00 0

Cond.

CI

Generator Certification Statement of Waste Status

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Cell

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

TDS

PCI/GM

MR/HR

H2S

% Oil

Weight

%Solids

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as mended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information ______ RCRA Hazardous Waste Analysis ______ Process Knowledge ______ Other (Provide description above)

Driver/ Agent Signature

Manabara

Sustomer Approval

R360 Representative Signature

THIS IS NOT AN INVOICE!

Approved By:

TRANSPORTER'S MANIFEST					
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:				
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: A8O SWD #2 Legals: UL "C", Sec. 2, T17S, R36E Location: Lea Co, NM AP1: 30-025-03849				
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	——————————————————————————————————————				
DESCRIPTION OF WASTE: E&P EXEMPT IMPACTED SOIL VOLUME:					
FACILITY CONTACT: Chuck Johnston	Signature: CMphA				

Kyle Zin Vanguard Operating, LLC 6-20-18 4001 Penbrook, Suite 201, Odessa, TX 79762 Date: MAME OF TRANSPORTER: (DRIVER) M. MAATH JRUCKING 5 Saul Name: Belly Dump Signature: Thurle # 150 Date: 6-21-18 DISPOSAL SITE: R360 Halfway Facility 4507 W Carisbad Hwy Signature: PO Box 388 Hobbs, NM 88241

> Direct Bill: Vanguard Operating, LLC Care Of: Kvie Zimmerman

Date:

kir

2204

ENVIRONMENT SOLUTIO Permian Basin	NS we	50		ner #: ed by: st #: Date: ;	MEWBOUF CRI4110 AMBER GF NA 6/22/2018 M MATA TF HECTOR 30	OVE		Ticket #: Bid #: Date: Generator: #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	42708	000BEJ 8 WRNE OIL NINER RID	
Facility: CRI											
Product / Serv	/ice				,		Quantity I	Jnits			
Contaminated	Soil (R	CRA Exem	ot)				-	yards			
1	Cell	pН	CI	Cond		TDS	PCI/GN	M MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0			····	*************************************		<u> </u>

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-___ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

____MSDS Information ____RCRA Hazardous Waste Analysis ___ Process Knowledge ___ Other (Provide description above)

Driver/ Agent Signature

Customer Approval

R360 Representative Signature

THIS IS NOT AN INVOICE!

Approved By:



TRANSPORTER'S MANIFEST				
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:			
Plains Marketing, LP 505 Big Spring Suite 600, Midland, TX, 79701		Location:	Mewbourne Forty Niner Ridge Unit 103 UL "O" Sec. 22, T23S, R30E Eddy Co, NM SRS No. 2018-078	
<u>TRANSPORTERS NAME AND ADDRESS;</u> M Mata Trucking, PO BOX 126 3 , Hobbs, NM, 88241				
DESCRIPTION OF WASTE:				
E&P EXEMPT IMPACTED SOIL		• •	· · · · · · · · · · · · · · · · · · ·	
FACILITY CONTACT: Amber Groves Plains Marketing, LP 1911 Connie Road, Carlsbad, NM 88220		Signature‡ Date:	Mber Grove ?? 4/21/208 6/22/20/8	
NAME OF TRANSPORTER: (DRIVER)			-22-18	
DISPOSAL SITE: Lea Land, Inc. NMOCD Permit #NM-01-035 Mile Marker 64, 62/180, Carlsbad, NM 88220			J. Donzaliz -22-18	
		Plains Mark	eting, LP	

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un de la comunitation Maintenne antre Maria					
ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #: CRI5830 Ordered by: CHUCK J AFE #: PO #: Manifest #: NA		Ticket #: Bid #: Date: Generator: Well Ser. #: Well Name: Well #: Field #: Rig: County	03849	
Facility: CRI		Quanti	ty Units		
Product / Service).00 yards		
Contaminated Soil (RCRA Exem	ipt)		I/GM MR/HF	H2S	% Oil Weight
Cell pH	CI Cond. 703	olids TDS PC			
Lab Analysis: 50/51 0.00	0.00	-			
Generator Certification Statemer I hereby certify that according to the 1988 regulatory determination, the al X RCRA Exempt: Oil Field wastes RCRA Non-Exempt: Oil Field wastes RCRA Non-Exempt: Oil field wastes MSDS Information RCRA amended. The following documenta MSDS Information RCRA Driver/ Agent Signature Customer Approval	s generated from oil and gas vaste which is non-hazardou regulations, 40 CFR 261.21 ation is attached to demonst A Hazardous Waste Analyst	s exploration and produ is that does not exceed I-261.24 or listed hazard rate the above-describe R360 Representat	the minimum stan dous waste as defi ed waste is non-ha edgeOther (ive Signature	dards for waste h ned in 40 CFR, pa zardous. (Check t Provide descriptio	azardous by art 261, subpart D, as he appropriate items):
Approved By:		Date	1;		
t5UJ9A010FKF				50¢	Mone in g
				- A.y.	en en esta de la companya de la comp
ann an an san san san san san san san sa		n Christian Anna Christian Anna A Christian An Christian Anna Anna Anna			
			la an 1997 an 1997 a Santaraga ganara an	e vertein der Geen de enterneren der der	

TRANSPORTER'S MA	NIFEST
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS:	
M Mata Trucking, PO BOX 1263,	
Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL	
VOLUME:	
FACILITY CONTACT:	
FACILITY CONTACT. Chuck Johnston	allill
Kyle Zimmerman Vanguard Operating, LLC	Signature: ChiphA
4001 Penbrook, Suite 201, Odessa, TX 79762	Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER) M MANTA	al Sie a
VAME OF TRANSPORTER: (DRIVER) MMata Tro #39201/06d	(HING
43920Vard	Name: JUC47-Gelavrz
,	Signature 490
	No. 110
	Date: 0/2//10
DSPOSAL SITE:	
1360 Halfway Facility	
507 W Carlsbad Hwy O Box 388	Signature:
obs, NM 88241	Signature.
·	Date: U. 24-18
Direct Bill:	
Care Of:	Vanguard Operating, LLC Kyle Zimmerman


ANVIRONMENTAL SOLUTIONS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	CHUCK JOHNSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	
Facility: CRI				
Product / Service	·. ·	Quantity L	Inits	
Contaminated Soil (RCRA Exempt	:)	F	yards	
Cell pH	Ci Conc		-	

0.00

0.00

Cond.

0.00

 $i + \frac{1}{2}$

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

TDS

%Solids

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X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by ----characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): ____MSDS Information ____RCRA Hazardous Waste Analysis ___ Process Knøwledge ___ Other (Provide description above)

	-		
	A	Signatu	
JUVER	LINNE	SINDST	IEA -
	1 199 10 11 1	VIGUAL	116

Lab Analysis: 50/51

Customer Approval

R360 Representative Signature

PCI/GM

MR/HR

H2S

% Oil

Weight

THIS IS NOT AN INVOICE!

Approved By:

TRANSPORTER'S MANIFEST

SHIPPERS FACILITY NAME AND ADDRESS:

Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762 LOCATION OF MATERIAL:

Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849

TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241

DESCRIPTION OF WASTE:

E&P EXEMPT IMPACTED SOIL

VOLUME:

FACILITY CONTACT: Chuck Johnston Kylezimmennen Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762

Signature:

NAME OF TRANSPORTERY (DRIVER) M MATA Trocking \$ 20 yard J€n Name: ... Truck #12 Signatu

DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241

Date:

Direct Bill: Vanguard Operating, LLC

Care Of: Kyle Zimmerman

Date:

Date:

Signature

ENVIRONMENTAL SOLUTIONS	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	VANGUARD PERMIAN CRI5830 CHUCK JOHNSTON 310400 6/25/2018 M MATA TRUCKING LLO LALO 150	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #; Field: Field #: Rig: County	03849	
Facility; CRI					
Product / Service		Qua	antity Units		
Contaminated Soil (RCRA Exemp	t)		20.00 yards		
Cell pH	CI Con		PCI/GM MR/HR	H2S % Oil	Weight
Lab Analysis: 50/51 0.00	0.00 0.00	0 0	,		

ZT.

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart I), as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

____MSDS Information ____RCRA Hazardous Waste Analysis ____ Process Knowledge ____ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:

Date:

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R360		NEW MEXICO	(PLEASE PRI			Company Man Co Name <u>CHVCK</u>	Johnste
			CENEDAT	COD	i a se a s	one No.	
A			GENERAT	UK	j no.	310400	
Operator No. Operators Name Address	Vangvard	Permi	an	Permit/RRC No. Lease/Well N≋me & No. County	ABO		lve oo
City, State, Zip Phone No.	****			API No. Rig Name & No. AFE/PO No.			**************************************
	EXEMPT E&P W	aste/Service Identificat	ion and Amount (place		acto tuno in barraia ana		
Oil Based Muds Oil Based Cutting Water Based Mu Water Based Cut Produced Format Tank Bottoms	35	NON-INJECTABLE WATE Washout Water (Non-In Completion Fluid/Flow t Produced Water (Non-in Gathering Line Water/W INTERNAL USE ONLY	RS Jectable) Dack (Non-Injectable) 1Jectable)		INJECTABLE WATERS Washout Water (Injectal Completion Fluid/Flow b Produced Water (Injectal Gathering Line Water/W	blė) ack (injectable) blė)	
E&P Contaminate Gas Plant Waste		Truck Washout (exempt	waste)	·····	OTTACK EXEMPT WASTEST	type and generation process or ti	ne wastej
	ATION PROCESS:	DRILLING		1	PRODUCTION	GATHERING LIN	100
		NON-EXE	MPT E&P Waste/Service Ide				(5)
	All non-exempt E&P w	aste must be analysed an	d be below the threshold li	mits for toxicity (TCL	nt P), ignitability, Corrosivity (and Reactivity.	
Non-Exempt Othe	2/		44444444		m Non-Exempt Waste Lis		
QUANTITY		6 - BAR	RELS	L - LIQUID	Y-YAR	<u>}</u>	E - EACH
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Chuck (PRIM PRIM	MSDS Information MSDS Information MSDS Information MSDS Information MSDS Information MSDS Information Mathematical MATHA	Instee nazardous waste as hed. (Check the appropria m RCRA H Izradous, non-oilfeild wast l a desciption of the waste	Ite items as provided) lazardous Waste Analysis te that has been ordered by a must accompany this form TRANSPOR	1, subpart D, as amen the Department of I bare TER Driver's Name Print Name Phone No. Truck No.	nded. The following docum Other (Provide Description Public Safety (the order, do	nentation demonstrating the n Below) ocumentation of non-hazardo SiGNATURE	wäste as hon-
EMERGENC Churck Pains ame ddress home No.	A SDS Information MSDS Information MSDS Information Therefield: Emergency non-ha determination and Therefield Agents NAME M. MATTA	Instee nazardous waste as hed. (Check the appropria m RCRA H Izradous, non-oilfeild wast l a desciption of the waste	defined by 40 CFR, part 26 ite items as provided) lazardous Waste Analysis te that has been ordered by must accompany this form TRANSPOR	1, subpart D, as amen the Department of I bare TER Driver's Name Print Name Phone No. Truck No.	nded. The following docum Other (Provide Description Public Safety (the order, do	nentation demonstrating the n Below) ocumentation of non-hazardo SiGNATURE	Wäste as hon-
EMERGENC Chuck PRINT ransporter's ame ddress ddress hone No. hereby certify that	ADIAL 20124 (or hazardous is attac MSDS Information MSDS Information AUTHORIZED AGENTS NAME M. MATTA MATTA AUTHORIZED AGENTS NAME M. MATTA Information AUTHORIZED AGENTS NAME	Instee nazardous waste as hed. (Check the appropria composition of the appropria in a second second second second la desciption of the waste	idefined by 40 CFR, part 26 ite items as provided) (azardous Waste Analysis te that has been ordered by a must accompany this form TRANSPOR TRANSPOR	1, subpart D, as amen withe Department of I b) Dare TER Driver's Name Print Name Phone No. Truck No. d delivered without i <u>6 - 2-3</u> OELIVERY	nded. The following docum Dther (Provide Description Public Safety (the order, do Date of the disposal fac Date of the disposal fac	nentation demonstrating the n Below) ocumentation of non-hazardo SiGNATURE	Wäste as hon-
EMERGENC Chuck Prain interest ddress hone No. hereby certify that	MSDS Information MSDS Information MSDS Information MSDS Information MSDS Information determination and mattrionized adjents make M. MATA M. MATA Information M. MATA MATA Information M. MATA MATA MATA MATA MATA MATA MATA MATA	Instee nazardous waste as hed. (Check the appropria composition of the appropria in a second second second second la desciption of the waste	defined by 40 CFR, part 26 ite items as provided) lazardous Waste Analysis te that has been ordered by must accompany this form TRANSPOR	1, subpart D, as amen withe Department of I b) Dare TER Driver's Name Print Name Phone No. Truck No. d delivered without i <u>6 - 2-3</u> OELIVERY	nded. The following docum Dther (Provide Description Public Safety (the order, do	nentation demonstrating the n Below) ocumentation of non-hazardo SIGNATURE SIGNATURE DEIVING AREA	wäste as hon-
EMERGENC Chuck Painsporter's ame ddress hone No. hereby certify that SHIPMEN N: te Name/ ermit No. fdress 6		Instee nazardous waste as hed. (Check the appropria composition of the appropria in a composition of the waste la desciption of the waste desciption of the waste were picked up at the Gene onwers's signature ker 66 Carlsbad, NM 8822	defined by 40 CFR, part 26 ite items as provided) (azardous Waste Analysis te that has been ordered by a must accompany this form TRANSPOR erator's site listed above an DISPOSAL FA	1, subpart D, as amen (the Department of I) Date TER Driver's Name Print Name Phone No. Truck No. OCLIVERY CILITY Phone No. 5	nded. The following docum Dther (Provide Description Public Safety (the order, do Dther (Provide Description Public Safety (the order, do Dther (Provide Description Dther (Dther (Dther (Dther Dther (Dther (Dther (Dther (Dther Dther (Dther (Dther (Dther (Dther Dther (Dther (Dther (Dther (Dther (Dther (Dther Dther (Dther	nentation demonstrating the n Below) occurrentation of non-hazardo Signature Signature Signature Deliver's signature CEIVING AREA SO/S(Wäste as hon-
EMERGENC Chuck Present Pres	TRUCK TIME STAMP OUT:	Instee nazardous waste as hed. (Check the appropria compared of the appropria response of the appropria response of the waste response of the waste respon	defined by 40 CFR, part 26 tte items as provided) (azardous Waste Analysis te that has been orderad by a must accompany this form TRANSPOR TRANSPOR	1, subpart D, as amen (the Department of I) DATE TER Driver's Name Print Name Phone No. CILITY Phone No. 5 If YES, was reading	nded. The following docum Dther (Provide Description Public Safety (the order, do	nentation demonstrating the n Below) occurrentation of non-hazardo Signature Signature Signature Deliver's signature CEIVING AREA SO/S(Wäste as hon-
EMERGENC Chuck Interporter's Itame ddress hone No. hereby certify that SHIPMENT N: te Name/ ermit No. tdress 6 NOF		Instee nazardous waste as hed. (Check the appropria composition of the appropria in a composition of the waste la desciption of the waste desciption of the waste were picked up at the Gene onwers's signature ker 66 Carlsbad, NM 8822	defined by 40 CFR, part 26 tte items as provided) (azardous Waste Analysis te that has been orderad by a must accompany this form TRANSPOR TRANSPOR	1, subpart D, as amen () the Department of I) Dare TER Driver's Name Print Name Phone No. Truck No. OELIVERY Phone No. S If YES, was reading IO DIVIS	nded. The following docum Dther (Provide Description Public Safety (the order, do Dther (Provide Description Public Safety (the order, do Dther (Provide Description Dther (Dther (Dther (Dther Dther (Dther (Dther (Dther (Dther Dther (Dther (Dther (Dther (Dther Dther (Dther (Dther (Dther (Dther (Dther (Dther Dther (Dther	nentation demonstrating the n Below) pocumentation of non-hazardo signature DRIVER'S SIGNATURE CEIVING AREA SOLS (Waste as non-

AVIRONMENTAL SOLUTIONS ermian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	CHUCK JOHN	STON	-	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County		d RD ROC	
acility: CRI								
roduct / Service			Qu	antity U	nits			
contaminated Soil (RCRA Exempt)			20.00 y	/ards			
Cell pH	CI Cond	t. %Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight

0.00

0.00

0.00

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is:

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X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by naracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as nended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information ______ RCRA Hazardous Waste Analysis ______ Process Knowledge ______ Other (Provide description above)

river/ Agent Signature

ab Analysis: 50/51

Marinekine raul

ustomer Approval

R360 Representative Signature

THIS IS NOT AN INVOICE!

Approved By:

TRANSPO	RTER'S MA	NIFEST	
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATIO	ON OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Legals:	ABO SWD #2 UL "C", Sec. 2, T175, R35E Lea Co, NM 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	·······		ni i dala na ana ang ang ang ang ang ang ang ang
DESCRIPTION OF WASTE:			
E&P EXEMPT IMPACTED SOIL			
VOLUME:			
FACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762			ChlphA 6-30-18
M. MATA JRUCKING BELLY DUMP TWIKE 150 38		Name: Signature: Date:	tato San ET -21-18
DISPOSAL SITE: 1360 Halfway Facility 1507 W Carlsbad Hwy 10 Box 388 Hobbs, NM 88241	••••••••••••••••••••••••••••••••••••••	Signature: Date:	yrs Jarton 120/18
	Direct 8ill: Care Of:	Vanguard Oj Kyle Zimmer	

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 $\mathbb{E}^{(2)} \cong \mathbb{E}^{(2)}$

R360	Customer: Customer #: Ordered by: AFE #: PO #:	MEWBOURNE OIL CO CRI4110 AMBER GROVE	Ticket #: Bid #: Date: Generator: Generator #:	700-905611 OGUJ9A000BEJ 6/25/2018 MEWBOURNE OIL CO
ENVIRONMENTAL SOLUTIONS			Well Ser. #:	42708 FORTY NINER RIDGE UNIT
Permian Basin	Hauler: Driver Truck #	M MATA TRUCKING LLC HECTOR 30	Well #: Field: Field #:	103H
	Card # Job Ref #		Rig: County	NON-DRILLING EDDY (NM)

Facility: CRI the state water as a second

Product / Service	Quantity Units
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Contaminated Sc	bil (R(CRA Exe	Exempt)				20.00 yards				
	ell	pН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis: 50	/51	0.00	0.00	0.00	0	*****		********	*****	*****	

Generator Certification Statement of Waste Status

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-___ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by

characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart ID, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

____ MSDS Information ____ RCRA Hazardous Waste Analysis ____ Process Knowledge ____ Other (Provide description above)

Driver/Agent Signature WI

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:



TRANSPORTER'S M	ANIFEST
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Plains Marketing, LP 505 Big Spring Suite 600, Midland, TX, 79701	Site:Mewbourne Forty Niner Ridge Unit 103HLegals:UL "O" Sec. 22, T23S, R30ELocation:Eddy Co, NMAPI:SRS No. 2018-078
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	na sena na sena na sena sena sena sena na sena na sena na sena se
E&P EXEMPT IMPACTED SOIL VOLUME:	· · · · · · · · · · · · · · · · · · ·
FACILITY CONTACT: Amber Groves Plains Marketing, LP 1911 Connie Road, Carlsbad, NM 88220	Signature Milly (1704) ? Date: (1) 31 248 6 22 20/8
NAME OF TRANSPORTER; (CRIVER)	Name: <u>H=c+o+ B</u> Signature: <u>71.7.18</u>
	Signature: <u>7/7/8</u> Date: <u>6 - 2.2 - 18</u>
<u>DISPOSAL SITE:</u> Lea Land, Inc. NMOCD Permit #NM-01-035 Mile Marker 64, 62/180, Carlsbad, NM 88220	Signatures J. DONZaliz SW
	Date: 4-22-18 6-25-18
Direct Bill: Care Df:	Plains Marketing, LP Amber Groves

NVIRONMEN SOLUTIO Permian Basi	NS W	50	Order AFE # PO #: Manifi	omer #: red by: #: est #: . Date: # #	MEWBOURN CRI4110 AMBER GRC NA 6/25/2018 M MATA TRU `HECTOR 13	VES		Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	42708	000BEJ 8 URNE OIL VINER RIE ILLING	
acility: CRI											
Product / Serv	lice				j	Q	uantity U	nits			
Contaminated	Soil (R	CRA Exem	ipt)				20.00				
-1.4	Cell	рН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
.ab Analysis:	50/51	0.00	0.00	0.00	Π	·····			******		

0.00

0.00

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is:

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X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by haracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as mended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): ____MSDS Information ____RCRA Hazardous Waste Analysis ___ Process Knowledge ___Other (Provide description above)

)river/ Agent Signature

743 _____

Sustomer Approval

R360 Representative Signature THIS IS NOT AN INVOICE!

Approved By:

Date:

ENVIRONMENTAL SOLUTIONS	Customer; Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	VANGUARD CRI5830 CHUCK JOH 310429 6/25/2018 M MATA TRL SAUL 38	NSTONQ	.c	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-90567 Walk-in Bid 6/25/2018 VANGUAR 03849 ABO SWD 002 NON-DRILI LEA (NM)	D ROC	
Facility: CRI								
Product / Service			·Qı	antity U	nits			
Contaminated Soil (RCRA Exempt	t)			20.00 y	ards			
Cell pH	Cl Conc	d. %Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight

0.00

0.00

0.00

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

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X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast _ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): _ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

Driver/ Agent Signature	R360 Representative Signature
Customer Approval	
	THIS IS NOT AN INVOICE!

Approved By:

Lab Analysis: 50/51

R360	NEW	V MEXICO NON-HAZARDO (PLEAS	E PRINT)	Name Cruck Jor	(n)
		GENE	RATOR	Phone No	
	ILARD		Permit/RRC No. Lease/Weli	I NO. 310429 ABO SWD 7	
ldress			Name & No. County	1100 0000 200	
y, State, Zip			API No. Rig Name & No.		
	PT F&D Watte /Semine	Idout(Gt)	AFE/PO Na.		
in Gauge (Filles	NON-INJECT	TABLE WATERS	place volume next to wa	ste type in barrels or cubic yards) INJECTABLE WATERS	
Vil Based Cuttings Vater Based Muds	Completion	ater (Non-Injectable) Fluid/Flow back (Non-Injectable)	······	Washout Water (Injectable) Completion Fluid/Flow back (Injectable)	
Vater Based Cuttings roduced Formation Solids ank Bottoms	Produced W	Vater (Non-Injectable) ing Water/Waste (Non-Injectable		Produced Water (Injectable) Gathering Line Water/Waste (Injectable)	
as Plant Waste		out (exempt waste)		OTHER EXEMPT WASTES (type and generation process of the waste)	
ASTE GENERATION PROCESS:			Annual Annua	PRODUCTION GATHERING LINES	
All non-ex	empt E&P waste must be	NON-EXEMPT E&P Waste/Serv analysed and be below the three	nce Identification and Amou hold limits for toxicity (TCLP	nt), Ignitability, Corrosivity and Reactivity.	
				n Non-Exempt Woste List on back	*****
JANTITY		8 - BARRELS	L + LIQUID	Y - YARDS E - EACH	
reby certify that according to the Resou d is (Checktife appropriate classification	irce Conservation and Rec	covery Act (RCRA) and the US En	vironmental Protection Ager	icy's July 1988 regulatory determination, the above described v	waste
RCRA NON-EXEMPT: Oil ffel 261.21 hazard	d waste which is non-haza -261.24, or listed hazardo ous is attached. (Check th	te appropriate items as provided	minimum standards for was Iart 261, subpart D, as amen)	te hazardous by characteristics established in RCRA regulations ded. The following documentation demonstrating the waste as	
RCRA NON-EXEMPT: Oil ffei 261,21 hazard MSDS EMERGENCY NON-CULEER D: Emerge	d waste which is non-haza -261.24, or listed hazardo ous is attached. (Check th Information [2003 non-hazradous, non-	ardous that does not exceed the bus waste as defined by 40 CFR, p 1e appropriate items as provided RCRA Hazardous Waste Ana	minimum standards for was art 261, subpart D, as amen) iysis C C	to be warden a fact of a second state of a secon	s, 40 C i nan-
RCRA NON-EXEMPT: Oil ffei 261,21 hazard MSDS EMERGENCY NON-OU FEM D: Emerge	d waste which is non-haza -261.24, or listed hazardo ous is attached. (Check th Information [2003 non-hazradous, non-	ardous that does not exceed the bus waste as defined by 40 CFR, p 1e appropriate items as provided RCRA Hazardous Waste Ana 	minimum standards for was art 261, subpart D, as amen) iysis C C	te hazardous by characteristics established in RCRA regulations ded. The following documentation demonstrating the waste as ther (Provide Description Below)	s, 40 С ; пап-
RCRA NON-EXEMPT: Oil ffei 261,21 hazard MSDS EMERGENCY NON-OILFEILD: Emerge determ (PRIMT) AUTHOAIZED AGENTS NAME	d waste which is non-haza -261.24, or listed hazardo ous is attached. (Check th Information [2003 non-hazradous, non-	ardous that does not exceed the bus waste as defined by 40 CFR, p le appropriate items as provided RCRA Hazardous Waste Ana oilfeild waste that has been orde	minimum standards for was Nart 261, subpart D, as amen) iysis C red by the Department of P is form) 	te hazardous by characteristics established in RCRA regulations ded. The following documentation demonstrating the waste as other (Provide Description Below) ublic Safety (the order, documentation of non-hazardous waste	s, 40 Cl апап-
RCRA NON-EXEMPT: Oil fiel 261,21 hazard MSDS EMERGENCY NON-OILFEILD: Emerge determ (PRINT) AUTHORIZED AGENTS NAME	d waste which is non-haza -261.24, or listed hazardo ous is attached. (Check th Information [2003 non-hazradous, non-	ardous that does not exceed the Dus waste as defined by 40 CFR, p re appropriate items as provided RCRA Hazardous Waste Ana -oilfeild waste that has been orde of the waste must accompany thi	minimum standards for was Nart 261, subpart D, as amen) iysis C red by the Department of P is form) 	te hazardous by characteristics established in RCRA regulations ded. The following documentation demonstrating the waste as other (Provide Description Below) ublic Safety (the order, documentation of non-hazardous waste	s, 40 С ; пап-
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ACRA NON-EXEMPT: Oil ffei 261.21 hazard MSDs EMERGENCY NON-OILFEILD: Emerge determ (PRINT) AUTHORIZED AGENTS NAME sporter's ne ress ee No. eby certify that the above named mater	d waste which is non-haza -261.24, or listed hazardo ous is attached. (Check th Information [2009 non-hazradous, non- ination and a desciption of AA True	ardous that does not exceed the Dus waste as defined by 40 CFR, p te appropriate items as provided RCRA Hazardous Waste Ana roilfeild waste that has been orde of the waste must accompany the TRANSP	minimum standards for was part 261, subpart D, as arrien j jysis c cred by the Department of P cred by the Department of P DATE ORTER Driver's Name Print Name Phone No, Truck No.	te hazardous by characteristics established in RCRA regulations ded. The following documentation demonstrating the waste as other (Provide Description Below) ublic Safety (the order, documentation of non-hazardous waste	s, 40 C i nan-
ACRA NON-EXEMPT: Oil fiel ACRA NON-OIL FERLD: EMERGE ACR	d waste which is non-haza -261.24, or listed hazardo ous is attached. (Check th Information [ancy non-hazradous, non- ination and a desciption of ADA Truc ial(s) was/were picked up	ardous that does not exceed the bus waste as defined by 40 CFR, p te appropriate items as provided RCRA Hazardous Waste Ana colifeild waste that has been orde of the waste must accompany this TRANSP	minimum standards for was hart 261, subpart D, as arrien lysis C by the Department of P is form) DATE ORTER Driver's Name Print Name Phone No, Truck No.	te hazardous by characteristics established in RCRA regulations ded. The following documentation demonstrating the waste as other (Provide Description Below) ublic Safety (the order, documentation of non-hazardous waste signature Signat	s, 40 С ; пап-
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ACRA NON-EXEMPT: Oil fiel 261.21 hazard MSDS EMERGENCY NON-OILFEILD: Emerged determ (PRIMT) AUTHORIZED AGENTS NAME ISPORTER'S Ne ress me No. TRUCK TIME ST OUT: Name/ ht No. Halfway Facility / NM1-000	d waste which is non-haze -261.24, or listed hazerdo ous is attached. (Check th Information [ancy non-hazeradous, non- ination and a desciption of AAA Truc ial(s) was/were picked up ORWER'S SIGNATU/ AMP	ardous that does not exceed the bus waste as defined by 40 CFR, p re appropriate items as provided RCRA Hazardous Waste Ang -oilfeild waste that has been orde of the waste must accompany this TRANSP WMY	minimum standards for was hart 261, subpart D, as arrien lysis c cred by the Department of P is form) DATE ORTER Driver's Name Print Name Phone No. Truck No. Truck No. DELIVERY D FACILITY	te hazardous by characteristics established in RCRA regulations ded, The following documentation demonstrating the waste as other (Provide Description Below) ublic Safety (the order, documentation of non-hazardous waste signature Saturi Saturi Saturi Saturi RECEIVING AREA Name/No.	s, 40 C i nan-
ACRA NON-EXEMPT: Oil ffei 261.11 hazard MSDs EMERGENCY NON-OILFEILD: Emerge determ (PNINT) AUTHORIZED AGENTS NAME (PNINT) AUTHORIZED AGENTS NAME sporter's Ma ress me No. eby Certify that the above named mater SUMMENT DATE TRUCK TIME ST OUT: Name/ it No. Halfway Facility / NM1-DOR ess 6501 Mobbs Hwy US 62/18	d waste which is non-haza -261.24, or listed hazardo ous is attached. (Check th Information [ancy non-hazradous, non- ination and a desciption of AMA Truck ial(s) was/were picked up DAIVER'S SIGNATUR AMP 3 0 Mile Marker 66 Carlsbar	ardous that does not exceed the bus waste as defined by 40 CFR, p re appropriate items as provided RCRA Hazardous Waste Ang -oilfeild waste that has been orde of the waste must accompany this TRANSP WMY	minimum standards for was hart 261, subpart D, as arrien lysis c cred by the Department of P is form) DATE ORTER Driver's Name Print Name Phone No. Truck No. ave and delivered without in Plone No. Truck No.	te hazardous by characteristics established in RCRA regulations ded. The following documentation demonstrating the waste as other (Provide Description Below) ublic Safety (the order, documentation of non-hazardous waste signature Signature Saturi Saturi RECEIVING AREA	s, 40 C i nan-
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ACRA NON-EXEMPT: Oil fiel ACRA NON-EXEMPT: Oil fiel 261.11 hazard MSDS EMERGENCY NON-CILFEILO: Emergy determ (PRINT) AUTHORIZED AGENTS NAME (PRINT) AUTHORIZED AGENTS NAME NOR SUIPMENT DATE TRUCK TIME ST OUT: Name/ nit No. Halfway Facility / NM1-000 6501 Hobbs Hwy US 62/18 NORM READINGS TAKEN? (CI PASS THE PAINT FILTER TEST? (CI auge	d waste which is non-haze -261.24, or listed hazardo ous is attached. (Check th Information [ancy non-hazradous, non- ination and a desciption of AAA Truc ial(s) was/were picked up onversionant ial(s) was/were picked up onversionant ial(s) was/were picked up onversionant ial(s) was/were picked up	ardous that does not exceed the bus waste as defined by 40 CFR, p te appropriate items as provided RCRA Hazardous Waste Ana colifeild waste that has been orde of the waste must accompany this TRANSP WMY b at the Generator's site listed about at the Generator's site listed about the Generator's site listed about at the Generator's site listed about the Generator's site listed about at the Generator's site listed about the Generator's site listed about the Generator's site listed about the Generator's site listed about the Generator's	minimum standards for was part 261, subpart D, as arren lysis C C cred by the Department of P is form) DATE ORTEER Driver's Name Print Name Print Name Print Name Print Name Print No. Truck No. Steve and delivered without in DELIVERY D. Phone No. 57: If YES, was reading > NO	te hazardous by characteristics established in RCRA regulations ded. The following documentation demonstrating the waste as other (Provide Description Below) ublic Safety (the order, documentation of non-hazardous waste signature Signature Signature Signature RECEIVING AREA Name/No. SD/ST 5-393-1079	s, 40 С ; пап-
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NVIRONMENTAL SOLUTIONS	AFE #: PO #: Manifest #: Manif. Date:	CHUCK JOHNSTON 310398	LC	Well #: Field: Field #: Rig:	700-905680 Walk-in Bid 6/25/2018 VANGUARD 03849 ABO SWD ROC 002 NON-DRILLING LEA (NM)
acility: CRI		,			
roduct / Service		a	luantity Ur	nits	<i>4</i> .

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ontaminated S	2011 (K	CRA Exe	mpt)				20.00 ya	rds			
	Cell	рН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
ab Analysis: 5	50/51	0.00	0.00	0.00	0					70 On N	446igini

ъ., . hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 388 regulatory determination, the above described waste is:

K RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by paracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as nended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): ____MSDS Information ____RCRA Hazardous Waste Analysis ____ Process Knowledge ____ Other (Provide description above)

river/ Agent	t Signature -
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ustomer Approval

R360 Representative Signature

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THIS IS NOT AN INVOICE!

pproved By:

Operators Name Variguaid Parian Address	Produced Water (Injectable)	
Operator No. Operators Name Variaground Permittal Address	Permit/RRC No. Lease/Well Name & No. County API No. Rig Name & No. AFE/PO No. t (place volume next to waste type in barrels or cubic yards) INJECTABLE WATERS Washout Water (Injectable) Completion Fluid/Flow back (Injectable) Produced Water (Injectable) Campletion Fluid/Flow back (Injectable) Produced Water (Injectable) Campletion Fluid/Flow back (Injectable) DTHER EXEMPT WASTES (type and generation process of the wast	
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Insporter's me dress and No. reby certify that the above named material(s) was/were picked up at the Generator's site listed a SHIPMENT DATE DAIVER'S SIGNATURE TRUCK TIME STAMP . OUT:	nalysis Dthar (Provide Description Below) dered by the Department of Public Safety (the order, documentation of non-hazardous wa this form) DATE SIGNATURE	8 92 NOR
SHIPMENT DATE DAIVER'S SIGNATURE TRUCK TIME STAMP TRUCK TIME STAMP DISPOSAL		
SHIPMENT DATE OAIVER'S SIGNATURE SHIPMENT DATE OAIVER'S SIGNATURE TRUCK TIME STAMP TRUCK TIME STAMP DISPOSAL D	Driver's Name Jalo	
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ceived	Phone No. Truck No. 150 above and delivered without Incident to the disposal facility listed below. <u>6 -28 - 16</u> DEUVERY DATE DEUVERY DATE DRIVERY SIGNATURE FACILITY RECEIVING AREA Name/No. Phone No. 575-393-1079 If YES, was reading > 50 micro roentgens? (circle one) YES NO DTIOMS BS&W/BDLS Received BS&W (%)	
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<u><u>vvv</u><u><u>v</u>-16-10</u><u>c</u></u>	Phone No. Truck No. 150 above and delivered without Incident to the disposal facility listed below. <u>6-28-18</u> <u>DEUVERY DATE</u> <u>DEUVERY DATE</u> <u>DEUVERY</u> <u></u>	
NAME (PRINT) DATE	Phone No. Truck No. 150 above and delivered without Incident to the disposal facility listed below. <u>6-28-18</u> DEUVERY DATE DEUVERY DATE	

C-138

VVIRONMENTAL SOLUTIONS	AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver	VANGUARD PERMIAN CRI5830 CHUCK JOHNSTON 310428 6/25/2018 M MATA TRUCKING LLC JUAN 39	Gene Well S Well I	erator: erator #: Ser. #: Name: #: #:	700-905682 Walk-in Bid 6/25/2018 VANGUARD 03849 ABO SWD ROC 002 NON-DRILLING LEA (NM)	
icility: CRI						
roduct / Service pntaminated Soil (RCRA Exempt)			n tity Units 20.00 yards			

Cell pН CI Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight ib Analysis; 50/51 0.00 0.00 0.00 0

enerator Certification Statement of Waste Status

tereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 88 regulatory determination, the above described waste is:

 RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by aracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as iended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information ______ RCRA Hazardous Waste Analysis ______ Process Knowledge ______ Other (Provide description above)

iver/ Agent	Signature	
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Istomer Approval

R360 Representative Signature

THIS IS NOT AN INVOICE!

oproved By:

Operator No. Operators Name Vanguos Address				ame PUTUP OUT VID
Operators Name Vangua		GENERATOR	Phone	
Address //	rd	GENERATOR Permit/AR Lease/Wel	CNO.	310428
City, State, Zip		County API No.		
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EXEMPT E&	kP Waste/Service Identification a			in unredel
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Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable}	Gathering Line Water/Waste	(Injectable)
E&P Contaminated Soil	INTERNAL USE ONLY Truck Washout (exempt waste)	OTHER EXEMPT WASTES (syn	a and generation process of the waste)
VASTE GENERATION PROCESS:	DRILLING			GATHERING LINES
All con-exempt f	NON-EXEMPT E	&P Waste/Service Identification an	d Amount	
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		Phone No.		
ne No.		Truck No.		
ereby certify that the above named material(s) v	was/were picked up at the Generator	's site listed above and delivered w	ith the disposal facility	Lister helow
SHIPMENT DATE	DRIVER'S SIGNATURE		DELLYERY DATE	DRIVER'S SIGNATURE
TRUCK TIME STAN	DIS	POSAL FACILITY	RECE Name/No.	SD 150
e Name/ mit No. <u>Halfway Facility / NM1-006</u> dress 6501 Hobbe Huguis 63 (100 Mil		Phone No.	575-393-1079	
NORM READINGS TAKEN? (Circle O	<u>~</u>	If YES, was r	eading > 50 micro roentgens? (circle	one) YES (NO)
		NK BOTTOMS		
PASS THE PAINT FILTER TEST? (Circle O				
Fast	Inches			
Foet			BS&W/BBLS Received	B5&W (%)
			BS&W/BBLS Received Free Water Total Received	B5&W (%)
Gauge Foet Gauge eived		DENIED If denied, w	Free Water Total Received	BS&W (%)
Gauge Gauge Sived	Inches	DENIED If denigd, w	Free Water Total Received	BS&W (%)

White - R360 ORIGINAL Yellow - TRANSPORTER COPY Pink - GENERATOR SITE COPY Gold - RETURN TO GENERATOR Version 1

roduct / Service		Quantity U	nits	
acility: CRI				
VVIRONMENTAL SOLUTIONS	AFE #: PO #: Manifest #: Manif. Date: Hauler:	VANGUARD PERMIAN CRI5830 CHUCK JOHNSTON 310427 6/25/2018 M MATA TRUCKING LLC ADRIAN 12		700-905684 Walk-in Bid 6/25/2018 VANGUARD 03849 ABO SWD ROC 002 NON-DRILLING LEA (NM)
\cdot	Customor		** !_1 + 11	700 005004

ontaminated Soi	il (RC	RA Ex	empt)				20.00 ya	rds			
Ce		рН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
ab Analysis: 50/	51	0.00	0.00	0.00	0		······································			******	

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 188 regulatory determination, the above described waste is:

river/ Agent Signature

ustomer Approval

R360 Representative Signature THIS IS NOT AN INVOICE!

.pproved By:

		NEW MEXIC		SE PRINT)	STE WANTEST	Name Chuck	Some
			GENE	RATOR		NO. 310427	1,
Dperator No. Dperators Name	hard	·····		Permit/ARC Lease/Well Name & No. County		05WP 2	
ty, State, Zip				AP! No. Rig Name & AFE/PO No.			·····
EXEM	PT F&P Waste/S	antice Identific	ation and Amount		to waste type in barrel		
II Based Muds	NON	I-INJECTABLE WAT	TERS	(place volume next	INJECTABLE WATE	15	
Vater Based Muds Vater Based Cuttings roduced Formation Solids	Com Prod	pletion Fluid/Flow luced Water (Non-	back (Non-Injectabl		Produced Water (In	low back (Injectable)	
ank Bottoms		RNAL USE ONLY k Washout (exemp	or waste)		OTHER EXEMPT WA	STES (type and generation process of	the waste)
ASTE GENERATION PROCESS:	עואס []]			LETION		GATHERING LI	NES
All non-er	empt E&P waste n	NON-EX nust be analysed a	EMPT E&P Waste/Se and be below the three	rvice Identification and shold limits for toxicity	Amount (TCLP), Ignitability, Corro	hits and Barrit in	
n-Exempt Other					ct from Non-Exempt Was		
JANTITY		G - B/	AARELS	L - LIQUID	Ý	· YAROS	E - EACH
reby certify that according to the Reso d is (Check the appropriate classification	urce Conservation	and Recovery Act	(RCRA) and the US E	nvironmentai Protectio	n Agenry's fuly 1989 regul	atom determination the shore of	
	Information	RCRA	Iate items as provide Hazardous Waste Ar Iste that has been ord	part 261, subpart D, as d) ialysis dered by the Department	Other (Provide Descr		waste as non-
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	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	CHUCK JOHI 310399	NSON		Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	-	id RD RDC	
cility: CRI								
oduct / Service			Q	uantity U	nits			
ontaminated Soll (RCRA Exempt))			20.00 y				
L A L I POLIS			TDS	PCI/GM		H2S	% Oíl	Weight

0.00

0.00

0.00

ib Analysis: 50/51

ereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 88 regulatory determination, the above described waste is:

0

; RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by aracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as ended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information _____ RCRA Hazardous Waste Analysis ____ Process Knowledge ____ Other (Provide description above)

iver/ Agent Signature	R360 Representative Signature
stomer Approval	
	THIS IS NOT AN INVOICE!
proved By:	Date:

Weight

			(42.44 14))		(PLEASE PR	DILFIELD WAST INT)	E MANIEST	Nami	Company Ma e <u>CHUC</u> #	JOHNS
								Phone No.		
Operator No.	;)		······		GENERA	Permit/RRC No Lease/Well		NO. 3	10399	9
Operators Name Address	Vangu	ard	por	mbern		Name & No. County	ABO	9 5WP	P Roc	002
lity, State, Zip hone No.		······	· · · · · · · · · · · · · · · · · · ·	······		API No. Rig Name & No AFE/PO No.	·······			
	EXEM	PT E&P Wast	e/Service Ider	ntification and	l Amount (place	volume next to	waste type in bar	rels or cubic us	arde)	
Oil Based Muds Oil Based Cuttings			ON-INJECTABL	E WATERS			INJECTABLE WA		ar ay	
Water Based Muds	İS		Vashout Water Completion Fluid				Washout Water			
Water Based Cuttin		P	roduced Water	(Non-Intectable		,	Produced Water	d/Flow back (injs : (injectable)	ectablo)	
Produced Formatio Tank Bottoms	ion solids	G	iathering Line W	/ater/Waste (No	on-Injectable)		Gathering Line V	Vater/Waste (Inj	jectable)	
E&P Contaminated	d Soil		ruck Washout (a	and the second		• *************************************	OTHER EXEMPT	WASTES (type and	d generation proce	ss of the waste)
Gas Plant Waste	·····					····				
NASTE GENERAT	TION PROCESS:	o []	RILLING	[N (PRODUCTION] GATHERIN	G LINES
	All nan-ex	empt E&P was	NC te must be anali	N-EXEMPT E&P	Waste/Service Ide ow the threshold II	entification and An mits for toxicity (T	10unt CLP), Ignitability, Co	rrosivity and Rea	ictivity.	
Ion-Exempt Other							iam Non-Exempt V			*****
UANTITY				B - BARRELS		L-LIQUID	,	Y - YAROS		E - EACH
hereby cartify that	t according to the Resou oppropriate classification	irce Conservati	ion and Recover	Y Act (RCRA) ar	id the US Environm	iental Protection A	Rentvís lute 1685		Incolory of	6 ° CACH
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ENVIRONMENT SOLUTIO Permian Basin	NS W	50	Customer: Customer Ordered by AFE #: PO #: Manifest # Manif, Date Hauler: Driver Truck # Card # Job Ref #	#:C y:C :36 N	2HUCK JOHN 10413 /25/2018 1 MATA TRUC UAN	SON		Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	700-9056 Walk-in B 6/25/2018 VANGUAI 03849 ABO SWE 002 NON-DRII LEA (NM)	id RD DROC	
Facility: CRI											
Product / Serv	/ice					Q	uantity Ui	nits			
Contaminated	l Soil (R	CRA Exemp	t)				20.00)				
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Lab Analysis:	50/51	0.00 (0 00.0	.00	0	*****				,	

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

Driver/	Agent	Signature
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R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:

	NEW	/ MEXICO NON-HAZARDO (PLEASI	US OILFIELD WASTE MA E PRINT)	NIFEST Cont Name Phone No	MUCK ONNST
Operator No.	guard	GENE	Permit/RRC No. Lease/Well Name & No. County	№. 310 ABO SWO 1	413 \$2
City, State, Zip			API No. Rig Name & No. AFE/PO No.		
EXI Dil Based Muds Dil Based Cuttings Water Based Muds Water Based Cuttings Produced Formation Solids Tank Bottoms	NON-INIEC Washout W Completion Produced W	FABLE WATERS fater (Non-Injectable) Fluid/Flow back (Non-Injectable) /ater (Non-Injectable) ine Water/Waste (Non-Injectable)	e type in barrels or cubic yards) UECTABLE WATERS (ashout Water (injectable) ompletion Fluid/Flow back (injectable) oduced Water (injectable) athering Line Water(Waste (injectabl THE EXEMPT WASTES (type and genera	e)
E&P Contaminated Soil		out (exempt waste)			
NASTE GENERATION PROCESS:					THERING LINES
All no Ion-Exempt Other	n-exempt E&P waste must be	NON-EXEMPT E&P Waste/Sen analysed and be below the thres	hold limits for toxicity (TCLP),	Ignitability, Corrosivity and Reactivity Non-Exempt Waste List on back	
QUANTITY		ð - Barrels	L - LIQUID	Y - YARDS	E - EACH
_		the appropriate items as provided)		nonstrating the waste as non-
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VVIRONMENTAL SOLUTIONS	AFE #: PO #: Manifest #: Manif. Date: Hauler:	CHUCK JOHNSTON 310412	Ticket #: Bid #: Date: Generator: Generator #: Well Ser, #: Well Name: Well Name: Well #: Field: Field #: Rig: County	
acility: CRI			,	
roduct / Service	· ·	Quantity (Jnits	
ontaminated Soil (RCRA Exempt	}	20.00	vards	

	•					E0.00 /01	40				
	Cell	рН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
ab Analysis:	50/51	0.00	0.00	0,00	0				******		

nereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 188 regulatory determination, the above described waste is:

ustomer Approval

R360 Representative Signature

THIS IS NOT AN INVOICE!

.pproved By:

R360		IAEAA	MEXICO NON	(PLEASE PR				Name Dhana Na	Conversion Man	y Johnst
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illy, State, Zip					Rig Name & N	ló				
hone No.			****	•••	AFE/PO No.			······		
	EXEMPT E&P W	aste/Service i	dentification an	id Amount (place	volume next to	o waste typ	e in barrel	s or cubic va	rds)	
Dil Based Muds Dil Based Cuttings		NON-INJECTA	BLE WATERS			INJECT	ABLE WATE	RS		****
Nater Based Muds	·····		ter (Non-Injectabli luid/Flow back (No		••••••••••••••••••		ut Water (In Hog Shud/S	ijectable) low back (Injec		•••••••••••••••••••••••••••••••••••••••
Vater Based Cuttings		Produced Wa	ter (Non-Injectabl	le)	······		ed Water (Ir		c(able)	·····
roduced Formation Solids ank Bottoms		Gathering Lin INTERNAL US	e Water/Waste (N	ion-Injectable)		Gather	ng Line Wat	ter/Waste (Inje	actable)	
&P Contaminated Soil	20		at (exempt waste)			OTHER	EXEMPT WA	STES (type and	generation process	of the waste)
as Plant Waste		<u> </u>								
ASTE GENERATION PROC	.ess:	DRILLING		COMPLETION	<u>ا</u>	PRODL	CTION		GATHERING	UNES
	All non-exempt E&P w	vaste must be a	NON-EXEMPT E&	P Waste/Service Ide	entification and A	mount				
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P360	AFE #: PO #:	AMBER GROVE	Ticket #: Bid #: Date: Generator: Generator #:	700-905701 Walk-in Bid 6/25/2018 VANGUARD
ENVIRONMENTAL SOLUTIONS	Manifest #: Manif. Date:	313324 6/25/2018	Well Ser. #:	03849 ABO SWD ROC
Permian Basin	Hauler: Driver Truck #	M MATA TRUCKING LLC SAUL 38	Well #: Field: Field #:	002
	Card # Job Ref #		Rig: County	NON-DRILLING LEA (NM)

Facility: CRI

Ridduct / Sarvice	Quantity Units
Contaminated Soil (RCRA Exempt)	20 DO vordo

						20.00 ya	ras			
Cell	pН	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis: 50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as

amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): ______MSDS Information ______RCRA Hazardous Waste Analysis _____Process Knowledge _____Other (Provide description above)

Driver/Agent/Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:



ΤΟΛΑΙΟΛΛ	TEDIC BAANICECT							
TRANSPORTER'S MANIFEST								
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:							
Plains Marketing, LP S05 Big Spring Sulte 600, Midland, TX, 79701	Site: Mewbourne Forty Niner Ridge Unit 103H Legals: UL "O" Sec. 22, T235, R30E Location: Eddy Co, NM API; SRS No. 2018-078							
TRANSPORTERS NAME AND ADDRESS; M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	1998), 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 19							
DESCRIPTION OF WASTE:	ny yn yr ann y constant yn							
E&P EXEMPT IMPACTED SOIL VOLUME: <u>20</u>	• • • • • • • • • • • • • • • • • • •							
FACILITY CONTACT:	· ·							
Amber Groves	signature MMAY Grow							
Plains Marketing, LP 1911 Connie Road, Carlsbad, NM 88220	Date: (1/21/248 6/22/2018							
NAME OF TRANSPORTER: (DRIVER)								
	Name: <u>Hector B</u> Signature: <u>714</u> B							
	Signature: 21-413							
	Date: <u>6-27-18</u>							
DISPOSAL SITE: Lea Land, Inc. NMOCD Permit #NM-01-035 Mile Marker 64, 62/180, Carlsbad, NM 88220	signatures <u>J. Manzaliz</u> W Date: <u>4-22-18</u> 6-25-78							
	Date: 4-22-18 6-25-18							
a	Direct Bill: Plains Marketing, LP Care Of: Amuel Groves							

RB		NEW MEXI	CO NON-HAZARDOU (PLEASE		MANIFEST	Name Name	y Man Contact Information
		ľ	GENER	ATOR		^{NO.} 3116	ΠA
Operator No.	·····	••••••	******	Permit/RRC No.			UT
Operators Name	Unguard			Lease/Well Name & No.	ABO	SWD HZ	
Address	- / -			County			
			*** ···· ·····	API No.	AINAL	<u> </u>	****
City, State, Zip Obsee No	**********			Rig Name & No.	NON		
Phone No.				AFE/PO No.			
Oll Based Muds		R Watte/Service Identii NONINIFOTABLEW	ATERCENERGE				
Oil Based Cuttin Water Based Mi		Washout Water (No Completion Fluid/Fl	on-Injectablo) ow back (Non-Injectable)	******	Washout Water (Completion Fluid	Injectable) /Flow back (Injectable)	
Water Based Co Produced Forma	ttings	Produced Water (N	on Injectable)		Produced Water	(Injectable)	
Tank Bottoms	-7//	STOCKET AND STOCKET	er/Waste (Non-Injectable)			ater/Waste (Injectable) /ASTES Even and provide	Processie (on Viole)
E&P Contaminat Gas Plant Waste		Truck Washout (exe	mpt waste)		Belly	۵	
WASTE GENER	ATION PROCESS:		COMPLE		PRODUCTION	GATH	IERING LINES
53.98.053.078°0			EXEMPTE&P Waste/Servi			and the second second	
Non-Exempt Oth		BP waste must be analyse	d and be below the thresh				
nao aximpi dan				, "pieuse select fru	m Non-Exempt W		
QUANTITY		8	- BARNELS	L - LIQUID	<u> </u>	Y YARDS	E - EACH
	hat according to the Resource C e appropriate classification)	onservation and Recovery i	Act (RCRA) and the US Envi	ronmental Protection Age	ency's July 1988 reg	sulatory determination, t	he above described waste
Chuch		ton-hazradous, non-difeild or and a desciption of the t		s form) Date	Public Safety (the i	order, documentation of signature	non-hazardous waste
Transporter's	THINK I				<u> </u>	- ^	1
Name Address	IN WIGHA T	cueking		Driver's Name 🦨 Print Name	Scul	Manne	luce
MITTI 633		*****	<u></u>	Phone No.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Phone No.	*****				38	······	****
	nat the above named material(s)	was/were picked up at the	e Generator's site listed ab	ove and delivered without - <u>6-25-18</u> OBLIVERY	C	Sal A	Land Card
	TRUCK TIME STAR		DISPOSAL	COLUMN STATES OF THE STATES		RECEIVING A	
IN:	OUT:		· · · · · · · · · · · · · · · · · · ·	, , , , , , , , , , , , , , , , , , ,	Name	:/No. 50/5/	
Site Name/				E.			
Parmit No.	Halfway Facility / NM1-006	****		Phone No.	575-393-1079		
Address	6601 Houbs Hwy US 62/180 M		AG				YES do
	ORM READINGS TAKEN? (Circle THE PAINT FILTER TEST? (Circle	<i>(</i>)	& U	n YES, was reading	g > 50 micro roentg	jens? (circle one)	YES CAO
			MANP PO				
	Feet	inches					
Ist Gauge 2nd Gauge			55 mar 17 (ad 191 (ad	B2&V	W/BBLS Received Free Water	BSI	<u> </u>
Received					Total Received		
f harebu carNi	y that the above load material h	ar baan feirels anat	ACCEPTED DENIE	D If denied, why?			
As A +	ATA	as been (circle one): B- 75-17	. 1	- 6 100 1000, WNYS	1		****
-Azarda	NAME (PRUHI)	0-75-17 DATE	·/₽/₩	<u>אא</u> זחג		\$G}47USE	
C-138	White - R360 ORIGIN	AL Yellow - TRANS	PORTER COPY Pi	nk - GENERATOR SIT	E COPY Gold	I - RETURN TO GEN	ERATOR Version 1

ENVIRONMENTAL SOLUTIONS	50	Cust Orde AFE PO # Mani	omer #: rred by: #: fest #: f. Date: ar: r f k # #	MEWBOURN CRI4110 AMBER GRO NA 6/26/2018 M MATA TRU HECTOR 30	VE		Ticket #: Bid #: Date; Generator: Generator #: Well Ser. #: Well Ser. #: Well Name: Well #: Field : Field #: Rig: County	42708	URNE OIL	
Facility: CRI										
Product/ Service	a kasar				is in the second	uantity 11	ARE SALA		4 ,	
Contaminated Soil (R	CRA Exem	pt)	., .	i entre entre i entre		20.00 y			-	
Cell	рН	CI	Cond.	%Solids	TDS	PCI/GM		Line	W O1	
Lab Analysis: 50/51	0.00	0.00	0.00	0				H2S	% Oil	Weight
Generator Gertification I hereby certify that account 1988 regulatory determin	come to the r	esource	Conservat	IOD AND RECOVE	ery Act (R	CRA) and t	he US Enviror	nmental Pro	itection Ag	ency's July

egulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

MSDS Information _____ RCRA Hazardous Waste Analysis ____ Process Knowledge ___ Other (Provide description above)

Driver/Agent Signature

CustomerApproval

THIS IS NOT AN INVOICE!

Approved By:

TRANSPORTE	er's MAI	IIFEST
HIPPERS FACILITY NAME AND ADDRESS;		LOCATION OF MATERIAL:
Piains Marketing, LP 505 Big Spring Suite 600, Midland, TX, 79701		Site: Mewbourne Forty Niner Ridge Unit 103H Legals: UL "O" Sec. 22, T235, R30E Location: Eddy Co, NM API: SRS No. 2018-078
rRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		CANNY BU AND BUT IN AND
DESCRIPTION OF WASTE: E&P EXEMPT IMPACTED SOIL VOLUME:		
FACILITY CONTACT: Amber Grovas Plains Marketing, LP 1911 Connie Road, Carlsbad, NM 88220		Signature
NAME OF TRANSPORTER; (DRIVER)		Name: Hector B Anad C
		Signature: 77-18 Aug/2 Date: 6-27-18-66-26-18
<u>DISPOSAL SITE:</u> Lea Land, Inc. NMOCD Permit #NM-01-035 Mile Marker 64, 62/180, Carlsbad, NM 88220		signature: J. Danzaliz HN
		Date: 4-22-18 6-25-18
		Plains Marketing, LP Amber Grover

R360	Customer: Customer #: Ordered by: AFE #: PO #:	MEWBOURNE OIL GO CRI4110 AMBER GROVE	Ticket #: Bid #: Date: Generator: Generator #:	700-905827 O6UJ9A000BEJ 6/26/2018 MEWBOURNE OIL CO
ENVIRONMENTAL SOLUTIONS	Manifest #: Manif. Date:	NA 6/26/2018	Well Ser. #:	42708 FORTY NINER RIDGE UNIT
Permian Basin	Hauler: Driver Truck #	M MATA TRUCKING LLC ANGEL 1295	Well #: Field: Field #:	103H
	Card # Job Ref #		Rig: County	NON-DRILLING EDDY (NM)

Facility: CRI

Product//Service	Эң 1
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Contaminated Soil (I	RCRA Exe	mpt)				20.00 ya	rds			
Cell	рH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis: 50/51	0.00	0.00	0.00	0	******		*********	*********	898487487499999999999999999999999999999	

Generator Certification Statement of Waste Status

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

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Driver/Agent Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:

BASIC CONTRACTOR OF CONTRACTO	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	CHUCK VANGUARD	Ticket #: Bid #: Date: Generator: #: Well Ser, #: Well Name: Well Name: Field: Field #: Rig: County	
Facility: CRI				
Product / Service		Quantit	y Units	

1

Contaminated :	Soil (R	CRA Exe	mpt)				20.00 ya				
	Cell	рН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis; 5	50/51	0.00	0.00	0.00	Ó					70 OR	vvcigni

Generator Certification Statement of Waste Status

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast ___ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by haracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as imended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

____MSDS Information ____RCRA Hazardous Waste Analysis ___ Process Knowledge ____Other (Provide description above)

Jriver/ Agent Signature

R360 Representative Signature

ł

Sustomer Approval

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Approved By:

TRANSP	ORTER'S MANIFEST
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Lacation: Lea Co, NM API: 30-D25-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL	
FACILITY CONTACT: Chuck Johnston Kylezimmermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: $Chiphi$ Date: $6-30-18$
NAME OF TRANSPORTER: IDRIVER) M. Mata Trucking Truck # 10. 30	Name: Adrian 6 Signature: Adrian 6 Date: 6-21-18
<u>DISPOSAL SITE:</u> 3360 Halfway Facility 507 W Carlsbad Hwy O Box 388 Iobbs, NM 8824 <u>1</u>	Signature: Mathematics Date: U2115
	Direct Bill: Vanguard Operating, LLC

ENVIRONMENTAL SOLUTIONS Permian Basin	Customer; Customer #; Ordered by; AFE #; PO #; Manifest #; Manif. Date; Hauler; Driver Truck # Card # Job Ref #	CHUCK JOHNSTO	N	Ticket #: Bid #: Date: Generator: Generator # Well Ser. #: Well Ser. #: Well Name: Well #: Field; Field #: Rig: County	03849	RD RD ROC	
Facility: CRI							
Product / Service Contaminated Soil (RCRA Exemp	t)		Quantity I 20.00	U nits yards			
Cell pH Lab Analysis: 50/51 0.00	Cl Cond 0.00 0.00		S PCI/GN	MR/HR	H2S	% Oil	Weight

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

amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): _______MSDS Information ______RCRA Hazardous Waste Analysis ______Process Knowledge _____Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:

Dale:

	PORTER'S MANIFEST
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWO #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
<u>TRANSPORTERS NAME AND ADDRESS;</u> M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL	
FACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: ChiphA Date: 6-30-18
MAME OF TRANSPORTER: IDRIVERI M. Mata Trucking Truck # 1295	Name: Alaso Signature: Hata arcs Date: 6-21-18
<u>DISPOSAL SITE:</u> R360 Halfway Facility 4507 W Carlsbad Hwy PO 80x 388 Hobbs, NM 88241	Signature: AMATAS Date: U22115
	Direct Bill: Vanguard Operating, LLC Care Of: Kyle Zimmerman

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AVIRONMENTAL SOLUTIONS	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	VANGUARD PE CRI5830 CHUCK JOHNS NA 6/26/2018 M MATA TRUCI HECTOR 30	TON	Ticket #: Bid #: Date: Generator: Generator # Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	700-90596 Walk-in Bi 6/26/2018 VANGUAF 03849 ABO SWD 002 NON-DRIL LEA (NM)				
Facility: CRI									
Product / Service	Product / Service Quantity Units								
Contaminated Soil (RCRA Exemp	ited Soil (RCRA Exempt) 20.			0.00 yards					
Cell pH	Cl Con	d. %Solids	TDS PCI/G	M MR/HR	H2S	% Oíl	Weight		
.ab Analysis: 50/51 0.00	0.00 0.0	0 0							

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-___ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by haracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as mended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): ____MSDS Information ____RCRA Hazardous Waste Analysis ____Process Knowledge ____Other (Provide description above)

Driver/ Agent Signature

Sustomer Approval

R360 Representative Signature

THIS IS NOT AN INVOICE!

Approved By:

		The Western Martines State Sta				
TRANSPORTER'S MANIFEST						
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL				
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752		Site: AGO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849				
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241						
DESCRIPTION OF WASTE: E&P EXEMPT IMPACTED SOIL VOLUME: 20 X V	na aliitissa <u>yy</u> teets _s ew <u>s</u> teen <u>e</u> eenaa					
FACILITY CONTACT: Chuck Johnston Kylezimmermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: ChiphA Date: 6-30-18				
NAME OF TRANSPORTER: (DRIVER) M. Marta Trocking Truck # 10 30		Hector Name: Advice b Signature: Advice h G Date: 6-21-18				
<u>DISPOSAL SITE:</u> 1360 Halfway Facility 507 W Carlsbad Hwy O Box 388 Iobbs, NM 88241		Signature: Marta Date: U.ZULD				
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman				

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ENVIRONMENTAL SOLUTIONS	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	VANGUARD F CRI5830 CHUCK JOHN NA 6/26/2018 M MATA TRU ANGEL 1295	ISTON		Ticket #: Bid #: Date: Generator: Generator # Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	03849	id RD D ROC	
Facility: CRI								
Product / Service			Q	uantity U	nits			
Contaminated Soil (RCRA Exemp	t)			20.00	yards			
Cell pH	Cl Con		TDS	PCI/GM	MR/HR	H2S	% Oil	Weight

0.00

0.00

0,00

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____MSDS Information ____RCRA Hazardous Waste Analysis ____Process Knowledge ____Other (Provide description above)

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Driver/ Agent Signature

Lab Analysis: 50/51

Customer Approval

R360 Representative Signature

THIS IS NOT AN INVOICE!

Approved By:

Date:
TRANSP	ORTER'S M	ANIFEST
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		4864 dalam ang ang pangkanang ang kang pangkanang ang kang pangkan dalam dalam dalam dalam dalam dalam dalam da
DESCRIPTION OF WASTE: E&P EXEMPT IMPACTED SOIL VOLUME:		
FACILITY CONTACT: Chuck Johnston Kyle Zimmermen Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: ChiphA Date: 6-J0-18
NAME OF TRANSPORTER: IDRIVERI M. Mata Tracking Truck # 1295		Name: Addition Date: 6-21-18
<u>DISPOSAL SITE:</u> R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: JMATA Date: U2115
	Direct Bill: Care Of:	

,



XENCO Laboratories



ATORIES Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	Acceptable Temperature Range: 0 - 6 degC				
Date/ Time Received: 07/18/2018 10:10:00 AM	Air and Metal samples Acceptable Range: Ambient				
Work Order #: 592670	Temperature Measuring device used : R8				
Sample Recei	ot Checklist Comments				
#1 *Temperature of cooler(s)?	1				
#2 *Shipping container in good condition?	Yes				
#3 *Samples received on ice?	Yes				
#4 *Custody Seals intact on shipping container/ cooler?	N/A				
#5 Custody Seals intact on sample bottles?	N/A				
#6*Custody Seals Signed and dated?	N/A				
#7 *Chain of Custody present?	Yes				
#8 Any missing/extra samples?	No				
#9 Chain of Custody signed when relinquished/ received?	Yes				
#10 Chain of Custody agrees with sample labels/matrix?	Yes				
#11 Container label(s) legible and intact?	Yes				
#12 Samples in proper container/ bottle?	Yes				
#13 Samples properly preserved?	Yes				
#14 Sample container(s) intact?	Yes				
#15 Sufficient sample amount for indicated test(s)?	Yes				
#16 All samples received within hold time?	Yes				
#17 Subcontract of sample(s)?	No				
#18 Water VOC samples have zero headspace?	N/A				

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Date: 07/18/2018

 Checklist completed by:
 Juit Mark

 Katie Lowe

 Checklist reviewed by:
 Mark Moah

 Kelsey Brooks

Date: 07/19/2018

R360	Customer: Customer#: Ordered by: AFE #: PO #:	VANGUARD PERMIAN CRI5830 CHUCK JOHNSTON	Ticket #: Bid #: Date: Generator: Generator #:	700- 9 06233 Walk-in Bid 6/27/2018 VANGUARD
ENVIRONMENTAL	Manifest #:	313324	Well Ser, #:	03849
SOLUTIONS	Manif. Date:	6/25/2018	Well Name:	ABO SWD ROC
Permian Basin	Hauler:	M MATA TRUCKING LLC	Well #:	002
	Driver	HECTOR B	Field:	
	Truck #	30	Field #:	
	Card #		Rig;	NON-DRILLING
	Job Ref#		County	LEA (NM)

Broduct / Servi	Ce					Que Qu	uantity Uni				
Contaminated 1							20.00 yaro				
	Cell	рH	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0	·····					<u> </u>

Generator Certification Statement of WesterStatus

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____MSDS Information ____RCRA Hazardous Waste Analysis ____Process Knowledge ____Other (Provide description above)

Driver/ Agent Signature

Customer Approval and a second s

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Approved By:

R360	NEW ME	EXICO NON-HAZARDOUS (PLEASE PR		MANIFEST	Coopar Name ////	Man Centact Informa
		GENERA	TOR	1	NO. 3133	24
perator No.			Permit/RRC No.			›ር.ዓ
perators Name Ucun Allara	1		Lease/Well Name & No.	Forly	Amer Andre	
dress			County	<u>_4</u>	BU JUK	20
A. (7)- L- SL-			API Na,	101	<u> </u>	
iy, State, Zip			Rig Name & No.	100/0-	Drilling	
	D W/note (Can dea Islan		AFE/PO No.			
i Based Muds	NON-INJECTABLE	ntification and Amount (place WATERS	e volume next to w	aste type in bai		
Based Cuttings ater Based Muds	Washout Water (Non-Injectable) /Flow back (Non-Injectable)		Washout Water	r (injectable)	
ater Based Cuttings oduced Formation Solids	Produced Water	(Non-injectable)	· · · · · · · · · · · · · · · · · · ·	Produced Wate	id/Flow back (injectable) r (injectable)	
nk Bottoms	Gathering Line W INTERNAL USE OF	ater/Waste (Non-Injectable)		Gathering Line V	Water/Waste (Injectable) WASTES (type and generation	
P Contaminated Soil	Truck Washout (a	exempt waste)			an tea traba lana Ballaration	process of the waste)
ASTE GENERATION PROCESS:				PRODUCTION		CONTRACTOR
		N-EXEMPT E&P Weste/Service In				ERING LINES
Ali non-exempt	E&P waste must be analy	vsed and be below the threshold	limits for toxicity (TCL	P), (gnitability, Co	rrosivity and Reactivity.	
N-Exempt Other					Waste List on back	
ANTITY		8 - BARRELS	ι - μουιρ	20	Y-YARDS	E - EACH
reby tertify that according to the Resource C	onservation and Recover	or Act (BCRA) and the US Emilian				
	nation	raste as defined by 40 CFR, part 2 propriate items as provided) RCRA Hazardous Waste Analysis Id waste that has been ordered i e waste must accompany this for	by the Department of	Other (Provide Di	escription Below)	
	nation	propriate items as provided] RCRA Hazardous Wriste Analysis Ild waste that has been ordered i e waste must accompany this for	by the Department of m)	Other (Provide Di	escription Below)	
EMERGENCY NON-DILFEILD: Emergency of determination	nation	propriate items as provided) RCRA Hazardous Waste Analysis	by the Department of m)	Other (Provide Di	escription Below) order, documentation of n	
EMERGENCY NON-DICFEILO: Emergency of determination Ambor Given (PRINT) AUTHORIZED AGENTS NAME ISporter's M Mala	nation	propriate items as provided] RCRA Hazardous Wriste Analysis Ild waste that has been ordered i e waste must accompany this for	by the Department of m)	Other (Provide Da	escription Below) order, documentation of n signature	
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MSDS inform MSDS inform Emergency AMSDS inform (PRINT) AUTHORIZED AGENTS NAME Sporter's IR Ress Re No. Reby certify that the above named material(s)	Truck the apmation	propriate items as provided] ftCRA Hazardous Wriste Analysis ild waste that has been ordered i e waste must accompany this for TRANSPOF	by the Department of m) DATE CTER Driver's Name Print Name Phone No, Truck No.	Other (Provide Da Public Safety (the	escription Below) order, documentation of n signature	
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SHIPMENT DATE	non-hazradous, non-oilfe on and a desciption of the Truck K-: Mg	propriate items as provided] ftCRA Hazardous Wriste Analysis ild waste that has been ordered i e waste must accompany this for TRANSPOF	by the Department of m) DATE TER Driver's Name Print Name Phone No, Truck No. Truck No.	Other (Provide Da Public Safety (the <u>He.ctov</u> <u>30</u> Incidant to the dis <u>5</u> OATE	escription Below) corder, documentation of n signature	ion-hazardeus waste
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	non-hazradous, non-oilfe on and a desciption of the Truck K-: Mg	Propriate items as provided] RCRA Hazardous Waste Analysis IId waste that has been ordered i e waste must accompany this for TRANSPOF	by the Department of m) DATE TER Driver's Name Print Name Phone No, Truck No. and defivered without GELLITY	Other (Provide Da Public Safety (the dector 30 Insident to the dia onte Name	escription Below) corder, documentation of n signature	ion-hazardous waste
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	In a strachdd, (Chack the ap mation	Propriate items as provided] RCRA Hazardous Wriste Analysis IId waste that has been ordered i e waste must accompany this for TRANSPOF he Generator's site listed above a DISPOSAL FA M 36220 Go TANK BOTT	by the Department of m) DATE TER Driver's Name Print Name Phone No. Truck No. Truck No. CELLITY Phone No. Sellvery Phone No. Sellvery Phone No. Sellvery Phone No. Sellvery Phone No.	Other (Provide Da Public Safety (the Acctor Joint to the dis Source Name Name > 50 micro roents	escription Below)	non-hazardbus waste
EMERGENCY NON-OLFEILD: Emergency (determinetic Ambo (Hittick) (PRINT) AUTHORIZED AGENTS NAME (PRINT) AUTHORIZED AGENTS NAME (P	In a desciption of the apmation Internation Internation Internation Internation Internation of the Internation of the Internation of the Internation of the International	Propriate items as provided] RCRA Hazardous Wriste Analysis IId waste that has been ordered i e waste must accompany this for TRANSPOF he Generator's site listed above a DISPOSAL FA M 36220 Go TANK BOTT	by the Department of m) DATE TER Driver's Name Print Name Phone No. Truck No. Truck No. CELLITY Phone No. Sellvery Phone No. Sellvery Phone No. Sellvery Phone No. Sellvery Phone No.	Other (Provide Da Public Safety (the Acceptory) Contection Name Name Sonte Name Sonte Name Sonte	escription Below)	ion-hazardous waste
EMERGENCY NON-OLFEILD: Emergency is determined in the determined in the determined is determined in the determined is supporter's Market Control and the above named material(s) SHIPMENT DATE TRUCK TIME STAN :OUT:OU	In a desciption of the apmation Internation Internation Internation Internation Internation of the Internation of the Internation of the Internation of the International	Propriate items as provided] RCRA Hazardous Wriste Analysis IId waste that has been ordered i e waste must accompany this for TRANSPOF he Generator's site listed above a DISPOSAL FA M 36220 Go TANK BOTT	by the Department of m) DATE TER Driver's Name Print Name Phone No. Truck No. Truck No. CELLITY Phone No. Sellvery Phone No. Sellvery Phone No. Sellvery Phone No. Sellvery Phone No.	Other (Provide Da Public Safety (the Acctor Joint to the dis Source Name Name > 50 micro roents	escription Below) corder, documentation of n sugnature	ion-hazardous waste
MSDS inform MSDS info	In a desciption of the apmation	propriate items as provided] ftCRA Hazardous Wriste Analysis ild waste that has been ordered is waste must accompany this for TRANSPOF be Generator's site listed above a DISPOSAL FA M 38220 Coo	by the Department of m) DATE TER Driver's Name Print Name Phone No. Truck No. and defivered without CILLITY Phune No. S If YES, was reading NO OMS	Other (Provide Da Public Safety (the Public Safety (the Ale Chow Ale Chow A	escription Below) corder, documentation of n sugnature	ion-hazardous waste
EMERGENCY NON-DILFEILD: Emergency is determined. MSUS inform MSUS	In a stracted (Chack the ap mation Inter-hazradous, non-oilfe on and a desciption of the Truck Haing Was/ware picked up at II Daiver Ssignatume MP	Propriate items as provided] RCRA Hazardous Wriste Analysis IId waste that has been ordered i e waste must accompany this for TRANSPOF he Generator's site listed above a DISPOSAL FA M 36220 Go TANK BOTT	by the Department of m) DATE TER Driver's Name Print Name Phone No. Truck No. Truck No. CELLITY Phone No. Sellvery Phone No. Sellvery Phone No. Sellvery Phone No. Sellvery Phone No.	Other (Provide Da Public Safety (the Public Safety (the Ale Chow Ale Chow A	escription Below) corder, documentation of n sugnature	ion-hazardous waste
EMERGENCY NON-DILF EILD: Emergency is determined determined determined determined insporter's MADE MARKED AGENTS NAME (PRINT) AUTHORIZED AGENTS NAME (Circle C (PASS THE PAINT FILTER TEST? (Circle C (Gauge (Gauge (Gauge	In a desciption of the apmation	Propriate items as provided] RCRA Hazardous Waste Analysis IId waste that has been ordered it waste must accompany this for TRANSPOF TRANSPOF DISPOSAL FA M 46220 Go TANK BOTT	by the Department of m) DATE TER Driver's Name Print Name Phone No. Truck No. and defivered without CILLITY Phune No. S If YES, was reading NO OMS	Other (Provide Da Public Safety (the Public Safety (the Ale Chow Ale Chow A	escription Below) corder, documentation of n sugnature	Non-hazardous waste

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TRANSP	ORTER'S M	ANIFEST
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
IRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	чт Фе И.р.	94-999 About
DESCRIPTION OF WASTE: E&P EXEMPT IMPACTED SOIL VOLUME: 26 X		
FACILITY CONTACT: Chuck Johnston Kyle Zimmerran Vanguard Operating, LLC 4001 Penbrook, Sulte 201, Odessa, TX 79762		Signature: ChiphA Date: 6-J0-18
NAME OF TRANSPORTER: (DRIVER) M. Mata Trucking Truck # 100 30	na kanangan	HRCHUF B Nome: ATO SO Signature: 1000, 00000 Date: 6-25-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: A A A A A A A A A A A A A A A A A A A
	Direct Bill: Cara Of:	

or: kylezimmerman

R360	Customer: Customer #; Ordered by: AFE #; PO #:	VANGUARD PERMIAN CRI5830 CHUCK JOHNSTON	Ticket #: Bid #: Date: Generator: Generator #:	700-907882 Walk-in Bid 7/2/2018 VANGUARD
ENVIRONMENTAL	Manifest #:	NA	Well Ser. #:	03849
SOLUTIONS	Manif. Date:	7/2/2018	Well Name:	ABO SWD ROC
Permian Basin	Hauler:	M MATA TRUCKING LLC	Well #:	002
	Driver	HECTOR	Field:	
	Truck #	150	Field #:	
	Card #		Rig:	NON-DRILLING
	Job Ref#		County	LEA (NM)

Product / Servi	CB	$\{1, j\}$			an a	<u> 7 2 0</u>	uantity Uni				
Contaminated !							20.00 yard				
	Cell	рH	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Contification Statement of Waste Status I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with aon-exempt waste.

_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by

characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as

amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

____MSDS Information ____RCRA Hazardous Waste Analysis ____Process Knowledge ____Other (Provide description above)

Driver/ Agent Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:

Date: _

TRANSPOR	TER'S MANIFEST
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Legals: UL "C", Sac. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL 🛛 💋	
VOLUME:	
FACILITY CONTACT: Chuck Johnston Kyle Zimmermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: ChiphA Date: 2-03-18
NAME OF TRANSPORTER: [DRIVER]	TK+ 150 Name: <u>Hector B</u> Signature: <u>7148</u> Date: <u>7-02-18</u>
<u>DISPOSAL SITE:</u> R360 Halfway Facility 4507 W Carisbad Hwy PO Box 388 Hobbs, NM 88241	Signature: TMarine Date: 7/2/18
	Direct Bill: Vanguard Operating, LLC Care Of: Kyle Zimmerman

R360	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date:	VANGUARD PERMIAN CRI5830 CHUCK JOHNSTON NA 7/2/2018	Ticket #: Bid #: Date: Generator: Generator #: Well Ser, #: Well Name:	700-907923 Walk-in Bid 7/2/2018 VANGUARD 03849 ABO SWD ROC
Permian Basin	Hauler: Driver Truck # Card # Job Ref #	M MATA TRUCKING LLC HECTOR 150	Well #: Field: Field #: Rig: County	NON-DRILLING LEA (NM)

Product/Servi	CG					<u>a</u> ga a	vantity - Uni	S				潮湯
Contaminated S	Soli (RCF	(A Exempt	}				20.00 yard	Is				
	Cell	pН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight	
Lab Analysis;	50/51	0,00	0.00	0,00	0							

Generator Certification Statement of Wasta Status I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by

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amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

____MSDS Information ____RCRA Hazardous Waste Analysis ____ Process Knowledge ____ Other (Provide description above)

Driver/Agent Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:

Date: ___

TRANSPOR	RTER'S MANIFEST
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T17S, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL 🛛	
VOLUME:	
FACILITY CONTACT: Chuck Johnston Kyle Zimmermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: Chiphit- Date: 7,-93,-18
NAME OF TRANSPORTER: (DRIVER)	Name: <u>Hector B</u> Signature: <u>918</u>
	Signature: <u>7/ 4-13</u> Date: 7-02 -18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: TManine Date: 7/2/18
*************************************	Direct Bill: Vanguard Operating, LLC Care Of: Kyle Zimmerman

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R360	Customer; Customer #; Ordered by; AFE #; PO #;	VANGUARD PERMIAN CRI5830 CHUCK JOHNSTON	Ticket #: Bid #: Date: Generator: Generator #:	700-907980 Walk-in Bid 7/2/2018 VANGUARD
ENVIRONMENTAL	Manifest #:	NA	Well Ser. #:	03849
SOLUTIONS	Manif. Date:	7/2/2018	Well Name:	ABO SWD ROC
Permian Basin	Hauler:	M MATA TRUCKING LLC	Well #:	002
	Driver	HECTOR	Field:	
	Truck #	150	Field #:	
	Card #		Rig;	NON-DRILLING
	Job Ref#		County	LEA (NM)

Product/Service											
Contaminated 3							20.00 yard				
	Cell	pН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0,00	0.00	0		· · · · · · · · · · · · · · · · · · ·				

Generator Cartification Statement of Waste Status I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

____MSDS Information ____RCRA Hazardous Waste Analysis ____Process Knowledge ____Other (Provide description above)

Drivert Agent Signature R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:

TRANSPORT	ER'S MANIFEST
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Lagais: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL 20	
VOLUME:	
FACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: ChiphA Date: 7-03-18-
NAME OF TRANSPORTER: (DRIVER)	TK+ 150 Name: Hector B
	Name: <u>117220 v b</u> Signature: <u>11 f B</u>
	5ignature: <u>77-02-18</u>
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241.	Signature: TMarine Date: 12/18
	Direct Bill: Vanguard Operating, LLC Care Of: Kyle Zimmerman

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R360	Customer: Customer #: Ordered by: AFE #:	VANGUARD PERMIAN CRI5830 CHUCK JOHNSTON	Ticket #: Bid #: Date: Generator:	700-908495 Walk-in Bid 7/4/2018 VANGUARD
ENVIRONMENTAL SOLUTIONS	PO #: Manifest #: Manif, Date:	319085 7/2/2018	Generator #: Well Ser, #: Well Name:	03849 ABO SWD ROC
Permian Basin	Hauler: Drìver Truck #	M MATA TRUCKING LLC HECTOR 150	VVell #: Field: Field #:	002
	Card# Job Ref#		Rig: County	NON-DRILLING LEA (NM)

Product / Service											
Contaminated S	minated Soil (RCRA Exempt) 20.00 yar						20.00 yaro	ls			
	Cell	pН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oll	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0	0-1-1-1-10-		"			

Generator Certification Statement of Waste Status : I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste,

__ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by

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amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

____MSDS Information ____RCRA Hazardous Waste Analysis ____Process Knowledge ____Other (Provide description above)

Driven Agent Signature

Çustomar Approval

THIS IS NOT AN INVOICE!

Approved By:

GENERATOR NO. 319085 Jperator No. Jernit/ARC No. Jperators Nama Janguard Job Sub #22 Address County April No. Ity, State, Zip hone No. EXEMPT E&P Waste/Service identification and Amount (place volume insist to waste type in barrels or cubit; yards)			• • • • • •	E PRINT)	N. Phone	ame <u>rilack-cjoin</u>
ensite Na.			GENE	RATOR		
And Provide Network A	verator No.	(<u> </u>	المهدانية المتحدث	3	19080
Parker 20 Parke	arators Nama AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	cd .		-	ARD	SUDFA
APT No. A	- · · · · · · · · · · · · · · · · · · ·				<u></u>	
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Argen No.	y, State, Zip					1
	one No.			-	Non	-dilling
Band Affets DOCUMERATION Example Description Descrip acting acting acting acting acting acting acting acting acting	THE STREET IS	P.Waste/Service Idei	differtion and amount (-	-	
	- · · · · · · · · · · · · · · · · · · ·					
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		Gathering Line W	Vater/Waste (Non-Injectable	e)	lathering Line Water/Waste	(Injectable)
	No. A second			<u> </u>	THER EXEMPT WASTES (WP	a and generation process of the wastel
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Control of the second sec	STE GENERATION PROCESS:	DRILLING		ETION 🗌 PI	RODUCTION	GATHERING LINES
	All tunisyon of	F89 waste must be and	ON-EXEMPTE&P Waste/Serv	/ce Identification and Amount	turnin Gillin (Promote Status and	
WITY B - BARALS L - LIQUID (* YARD3 E - EACH (*		THE REAL PROPERTY OF AND ADDRESS	THE REAL PROPERTY AND LEASE			
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Is Concerned the appropriate classification of and gas explorated from oil and gas explorated and production operations and are not mixed with non-exempt waste (1360 Accepts certifications of load basis only) RCBA EXEMPT: OI Refl waste which is non-hexadous that does not exceed the minimum standards for waste huzadous by characteristics arealizated on deconvertation demonstrating the waste as a manded. The (olowing documentation demonstrating the waste as a manded. The (olowing documentation demonstrating the waste as a manded. The (olowing documentation demonstrating the waste as a manded. The (olowing documentation demonstrating the waste as a manded. The (olowing documentation demonstrating the waste as a manded. The (olowing documentation domonstrating the waste as a manded. The (olowing documentation domonstrating the waste as a manded. The (olowing documentation domonstrating the waste as a manded. The (olowing documentation domonstrating the waste as a manded. The (olowing documentation domonstrating the waste as a manded. The (olowing documentation domonstrating the waste as a manded. The (olowing documentation domonstrating the waste as a manded. The (olowing documentation domonstrating the waste as a manded. The (olowing documentation domonstrating the waste as a manded. The (olowing documentation domonstrating the waste as a manded. The (olowing documentation domonstrating the waste as a manded. The (olowing documentation domonstrating the waste as a manded. The (olowing documentation domonstrating the waste as a manded. The (olowing documentation domonstrating the waste as a manded. The (olowing documentation domonstrating the waste as a manded. The (olowing documentation domonstrating the waste as a manded. The (olowing documentation domonstrating the waste as a manded. The (olowing documentation domonstrating the waste as a manded. The (olowing documentation domonstrating the waste as a documentation documentation documentation documentation documentation documentation documentation documentatio	NTITY JO		8 - BARRELS	L - LIQUID	Y - YARDS	E - EACH
sporter's					blic Safety (the order, docu	mentation of non-hazardous waste
Insporter's M_A_A/A_A_A	(PRINT) AUTHORIZED AGENTS MANNE			QATE	····	SIGNATURE
			TRANSF	PORTER		
Phone No. Truck TIME stands stand material(s) was/were ploked up at the Generator's site listed above and detagreed without incident to the disposal folinty listed below. TRUCK TIME STAMP DISPOSAL FACILITY RECEIVING AREA Name/No. S0/S/ Nome No. S75-393-1079 TRUCK TIME STAKEN? (Circle One) YES NO NO NO READINGS TAKEN? (Circle One) YES NO NO READINGS TAKEN? READINGS TAKEN? READINGS TAKEN? READING READINGS READING READINGS READING R	nsporter's	<u>a</u>			Hector	A
Image: State of the state	ne <u>M-Mat</u>	۹		Driver's Name	Hector	· · · · · · · · · · · · · · · · · · ·
In the part of the above named material(s) was/were ploked up at the Generator's site listed above and detword without incident to the disposal folity listed below. In the above named material(s) was/were ploked up at the Generator's site listed above and detword without incident to the disposal folity listed below. In the above named material(s) was/were ploked up at the Generator's site listed above and detword without incident to the disposal folity listed below. In the above named material(s) was/were ploked up at the Generator's site listed above and detword without incident to the disposal folity listed below. In the above named material(s) was/were ploked up at the Generator's site listed above and detword without incident to the disposal folity listed below. In the above named material has been clasted on of: I hereby certify that the above load material has been clasted on of: ACCEPTED I hereby certify that the above load material has been clasted on of: ACCEPTED I hereby certify that the above load material has been clasted on of: ACCEPTED I hereby certify that the above load material has been clasted on of: ACCEPTED I hereby certify that the above load material has been clasted on of: ACCEPTED I hereby certify that the above load material has been clasted on of: ACCEPTED I hereby certify that the above load material has been clasted on of: ACCEPTED I hereby certify that the above load material has been clasted on of: ACCEPTED I hereby certify that the above load material has been clasted on of: ACCEPTED I hereby certify that the above load material has been clasted on of: ACCEPTED I hereby certify that the above load material has been clasted on of: ACCEPTED I hereby certify that the above load material has been clasted on of: ACCEPTED I hereby certify that the above load material has been clasted on of: ACCEPTED I hereby certify that the above load material has been clasted on of: ACCEPTED I hereby certify that the above load material has been clasted on of: ACCEP	ne <u>M-Mat</u>	۹		Driver's Name	Hector	
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OUT: Name/No. So/S/ IN Name/ mit No. Halfway Facility / NM1-006 Phone No. 575-393-1079 Interest B601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 8822Q Phone No. 575-393-1079 NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (circle one) YES PASS THE PAINT FILTER TEST? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (circle one) YES Gauge Feet Inches BS&W/BBLS Received BS&W (%) Feet Inches BS&W/BBLS Received BS&W (%) I hereby cartify that the above load material has board circle one): ACCEPTED DENIER (Adenied, why?	ne		the Generator's site listed al	Driver's Name Print Name Phone No. Truck No.	I St cident to the disposal facilit	Vlisted pelow.
a Name/ mit No. Halfway Facility / NM1-006 Phone No. 575-393-1079 dress 5601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220 If YES, was reading > 50 micro roentgens? (circle one) YES NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (circle one) YES PASS THE PAINT FILTER TEST? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (circle one) YES Feet inches NO If YES, was reading > 50 micro roentgens? (circle one) YES NO I Gauge Feet inches BS&W/88LS Received BS&W (%) If YES, was reading > 50 micro roentgens? (circle one) YES NO I hereby certify that the above load material has beometricipic one): ACCEPTED DENIER K-denied, why? DENIER K-denied, why?	The Ministry Ministry Ministry Ministry Ministry Ministry and Ministry Mini	ORIVER'S SIGNATURE	n - Je go na Antonio Balanda Inacana	Driver's Name Print Name Phone No. Truck No. bove and detwared without in BEDVERY ON	I St clident to the disposal focilit The state of the sta	y listed below. Heckory 13 DHIVER'S SIGNATURE
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terved Total Reconversional has been related onel: ACCEPTED DENIER (Adenied, why?	me ///www.loggedisess	ORIVER'S SIGUATURE		Driver's Name Print Name Phone No. Truck No. bove and delivered without in DELIVERY DA FACILITY Phone No. 57: If YES, was reading > NO	I St cligent to the disposal facility The RECE Name/No. 5-393-1079	y listed below. H cector 13 DHINER'S SIGNATURE IVING AREA SO/S/ Cone) YES (10
(J 47-2-18 Admin I	me ////Jacker dress one No. ereby certify that the above named material shiewsent DATE TRUCK TIME STA I:OUT; a Name/ mit NoHalfway Facility / NM1-006 afces Barne/ mit NoHalfway Facility / NM1-006 afc01 Hobbs Hwy US 62/180 N NORM READINGS TAKEN? (Circle PASS THE PAINT FILTER TEST? (Circle Gauge	ORIVER'S SIGUATURE		Driver's Name Print Name Phone No. Truck No. bove and delivered without in DELIVERY DA FACILITY Phone No. 57: If YES, was reading > NO	I St cliqent to the disposal facility The RECE Name/No. 5-393-1079 50 micro roentgens? (circle 188LS Received	y listed below. H cector 13 DHINER'S SIGNATURE IVING AREA SO/S/ Cone) YES (10
(Ja7-2-18 Admin I	me ////J.J. dress one No. areby certify that the above named material shiekeen DATE TRUCK TIME STA I:OUT; a Name/ mit NoHalfway Facility / NM1-006 dress dress NORM READINGS TAKEN? (Circle PASS THE PAINT FILTER TEST? (Circle Feet Gauge	ORIVER'S SIGUATURE		Driver's Name Print Name Phone No. Truck No. bove and delivered without in DELIVERY 27 Phone No. 57 If YES, was reading > NO DITIONIS	Cident to the disposal focilit Arre RECE Name/No. 5-393-1079 50 micro roentgens? (circle (aBLS Received Free Water	y listed below. H cector 13 DHINER'S SIGNATURE IVING AREA SO/S/ Cone) YES (10
Date Signature	me dress dre	ORIVER'S SIGNATURE	DISPOSAL	Driver's Name Print Name Phone No. Truck No. bove and delivered without in DELIVERY OF Phone No. 57 If YES, was reading > NO DITIONIS BS&W/	Cident to the disposal focilit Arre RECE Name/No. 5-393-1079 50 micro roentgens? (circle (aBLS Received Free Water	y listed below. H cector 13 DHINER'S SIGNATURE IVING AREA SO/S/ Cone) YES (10
DATE TITLE SIGNATURE	me ////J.d.J.d. dress one No. areby certify that the above named material(SHIRMENT DATE TRUCK TIME STA I: OUT; a Name/ mit No. Halfway Facility / NM1-006 dress <u>6601 Hobbs Hwy US 62/180 N NORM READINGS TAKEN? (Circle PASS THE PAINT FILTER TEST? (Circle Feet Gauge celved </u>	ORIVER'S SIGNATURE	DISPOSAL	Driver's Name Print Name Phone No. Truck No. bove and delivered without in DELIVERY OF Phone No. 57 If YES, was reading > NO DITIONIS BS&W/	Cident to the disposal focilit Arre RECE Name/No. 5-393-1079 50 micro roentgens? (circle (aBLS Received Free Water	y listed below. H cector 13 DHINER'S SIGNATURE IVING AREA SO/S/ Cone) YES (10
	me ////	ORIVER'S SIGNATURE	DISPOSAL	Driver's Name Print Name Phone No. Truck No. bove and delivered without in DELIVERY OF Phone No. 57 If YES, was reading > NO DITIONIS BS&W/	Cident to the disposal focilit Arre RECE Name/No. 5-393-1079 50 micro roentgens? (circle (aBLS Received Free Water	y listed below. Hechoso 13 DUNYER'S SIGNATURE IVING AREA SO/S/ rone) YES (10 BS&W (%)
138 White - R360 ORIGINAL Yellow - TRANSPORTER COPY Pink - GENERATOR SITE COPY Gold - RETURN TO GENERATOR Vers	me ////	ORIVER'S SIGNATURE	DISPOSAL	Priver's Name Print Name Phone No. Truck No. bove and detwared without in bove and detwared without in FACILITY Phone No. If YES, was reading > NO DTTCIVIS BS&W/ EXAMPLE	Cident to the disposal focilit Arre RECE Name/No. 5-393-1079 50 micro roentgens? (circle (aBLS Received Free Water	y listed below. Hechoso 13 DUNYER'S SIGNATURE IVING AREA SO/S/ rone) YES (10 BS&W (%)

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R360	Customer: Customer #: Ordered by; AFE #:	VANGUARD PERMIAN CRI5830 CHUCK JOHNSTON	Ticket #: Bid #: Date: Generator:	700-912175 Walk-in Bid 7/17/2018 VANGUARD
ENVIRONMENTAL	PO #: Manifest #:	NA	Generator #: Well Ser. #:	03849
SOLUTIONS	Manif. Date:	7/17/2018	Well Name:	ABO SWD ROC
Permian Basin	Hauler:	M MATA TRUCKING LLC	We !! # :	002
	Driver	ORNALDO	Field:	
	Truck #	151	Field #:	
	Card #		Rig;	NON-DRILLING
	Job Ref#		County	LEA (NM)

Provident Service											
Contaminated	Soil (RCR	A Exempt)					20.00 yarc	s			
	Cell	pН	CI	Cand.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oll	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Contribution Statement of Waste Status I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

 \underline{X} RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

____RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by

characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as

amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

__ MSDS Information __ RCRA Hazardous Waste Analysis __ Process Knowledge __ Other (Provide description above)

Driver/ Agent Signature

Customer Approval is

THIS IS NOT AN INVOICE!

Approved By:

TRANSPORTE	R'S MAN	lifest
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T17S, R36E Location: Lea Co, NM API: 30-025-03849
<u>TRANSPORTERS NAME AND ADDRESS:</u> M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	<u> </u>	2
DESCRIPTION OF WASTE:		y y dy hen y y an
E&P EXEMPT IMPACTED SOIL		, ,
VOLUME:		
FACILITY CONTACT: Chuck John ton Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: ChiphA Date: 6-J0-18
NAME OF TRANSPORTER: (DRIVER) M. M. St. Trevering UNIT # 151		Name: () R A AD Signature: Date:7-17-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature:
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman

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Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	CHUCK JOHN	STON		Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County		id RD) ROC	
Facility: CRI								
Product / Service			Q	uantity U	nits			
Contaminated Soil (RCRA Exemp	t)			20.00	yards			
Cell pH	CI Con	d. %Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight

0.00

0.00

0.00

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

Ö

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast

Driver/ Agent Signature

Customer Approval

Lab Analysis: 50/51

R360 Representative Signature

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Approved By:

Date:

TRANSPORT	ER'S MA	NIFEST
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: A80-SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM AP1: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		алтан калан талан талар та Талар талар тала
DESCRIPTION OF WASTE:		
E&P EXEMPT IMPACTED SOIL		
Volume:		
FACILITY CONTACT: Chuck Johnston Kyle Zimmermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: CMJA Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER) # 29 20 Yard MMata Trucking		Name: Juan Golariz Signature
DISPOSAL STTE: 1360 Halfway Facility 1507 W Carlsbad Hwy 20 Box 388 Hobbs, NM 88241		Sīgnature;
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman

ante e su

TRANSPOR	TER'S MA	NIFEST
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T17S, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		
DESCRIPTION OF WASTE:	****	
FACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: ChiphA Date: 6-J0-18
NAME OF TRANSPORTER: (DRIVER) M. MATH TRUCKING BOLLY DUMP TRUCK # 150		Name: Julio Signature: EM Date: <u>6-21-18</u>
<u>DISPOSAL SITE:</u> R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature:
		Vanguard Operating, LLC Kyle 2immertian

BASE ENVIRONMENTAL SOLUTIONS Permian Basin	Customer; Customer #: Ordered by: AFE #: PO #: Manifest #: Manif, Date: Hauler: Driver Truck # Card # Job Ref #	VANGUARD PERMIAN CRI5830 CHUCK JOHNSTON NA 6/21/2018 M MATA TRUCKING LLC LALO 150	, , , , , = +, , , , ,	700-904440 Walk-in Bid 6/21/2018 VANGUARD 03849 ABO SWD ROC 002 NON-DRILLING LEA (NM)
Facility: CRI				
Product / Service		Quant	tity Units	
Contaminated Soil (RCRA Exemp	t)	2	10.00 yards	

0.00

Нa

CI

0.00

Cond.

0.00

Cell

Lab Analysis: 50/51

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by

TDS

PCI/GM

MR/HR

H₂S

% Oil

Weight

characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D. as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

____ MSDS Information ___ RCRA Hazardous Waste Analysis ___ Process Knowledge ___ Other (Provide description above)

%Solids

ñ

Driver/ Agent Signature

R360 Representative Signature

Date:

Customer Approval

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Approved By:

- (

Permian Basin	AFE #: PO #:	CHUCK JOHNSTON		700-904444 Walk-in Bid 6/21/2018 VANGUARD 03849 ABO SWD ROC 002 NON-DRILLING
Facility: CRI	Job Ref#		County	LEA (NM)
² roduct / Service				
		Quantity i	Jnits 🐩	
Contaminated Soil (RCRA Exempt)		20.00	vards	

	0011110	IVY EXCIT	prj				20.00 yan	រទ			
	Cell	рH	CI	Cond,	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0,00	0.00	Ð						

Senerator Certification Statement of Waste Status hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste __ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by haracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as mended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): ____MSDS Information ____RCRA Hazardous Waste Analysis ___ Process Knowledge ___ Other (Provide description above)

Driver/ Agent Signature

R350 Representative Signature

Sustomer Approval

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Approved By:

TRANSPO	DRTER'S MA	NIFEST
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		
DESCRIPTION OF WASTE: E&P EXEMPT IMPACTED SOIL VOLUME:	un des 1980, des de 1990, de 1 990, de 1990, de 19	
FACILITY CONTACT: Chuck Jobnston Kyle Zimmennon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Ddessa, TX 79752	************************************	Signature: Date:
NAME OF TRANSPORTER: (DRIVER) M. Mata Trucking Truck #12		Name: <u>Adrian (</u> Signature: <u>Adrian (</u> Date: <u>6-21-18</u>
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: Maaq Date: URU18
	Direct Bill: Care Of:	· · · · · · · · · · · · · · · · · · ·

Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	CHUCK JOHN	NSTON		Ticket #. Bid #: Date: Generator: Generator #: Well Ser. #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-9044 Walk-in B 6/21/2018 VANGUA 03849 ABO SWI 002 NON-DRI LEA (NM)	iid RD D ROC	
acility: CRI								
roduct / Service			Q	uantity U	nits			
Contaminated Soil (RCRA Exempl	t)			20.00	/ards			
the second se	Cl Cond		TDS	PCI/GM	MR/HR	H2S	% 01	Weight

0.00

0.00

0.00

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is:

n

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast _ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by varacteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as nended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): ___ MSDS Information ____ RCRA Hazardous Waste Analysis ___ Process Knowledge ___ Other (Provide description above)

river/ Agent Signature

ab Analysis, 50/51

ade

ustomer Approval

R360 Representative Signature

terre V

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THIS IS NOT AN INVOICE!

vpproved By:

TRANSPO	DRTER'S MA	NIFEST
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL *C", Sec. 2, 7175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ана у ступ на вал било во стил и поли и стати на конструкци, на конструкци, на констрикци, на констрикци, на к
DESCRIPTION OF WASTE:		<u></u>
E&P EXEMPT IMPACTED SOIL		
VOLUME:		
FACILITY CONTACT: Chuck Johnston Kyle Zimmermon Vanguard Operating, LI.C 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: ChiphA Date: 6-JO-18
NAME OF TRANSPORTER: (DRIVER)	**************************************	#38
		Name: Soul Alarine Car
		Signature: Circ. 1 1 Harris 4
		Date: 6-21-13
<u>DISPOSAL SITE:</u> R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 38B Hobbs, NM 88241		Signature: Mar Date: URI IX
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman

TRANSPO	RTER'S MAN	lifest
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		
DESCRIPTION OF WASTE:		
E&P EXEMPT IMPACTED SOIL 🛛		
VOLUME:		
FACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: ChiphA Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER)	MATTER	11 / _ x2
		Name: <u>Hector B</u> Signature: <u>7148</u>
		Signature: 7/ 13
		Date: 6-11-18
<u>DISPOSAL SITE:</u> R360 Halfway Facility 45D7 W Carlsbad Hwy PO Box 388		Signature:
Hobbs, NM 88241		
	<u> </u>	Date:
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman

BOLUTIONS	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	CHUCK JOHN	ISTON		Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County		id RD D ROC LUING	
Facility: CRI								
Product / Service			Q	antity U	nits			
Contaminated Soil (RCRA Exemp	et)			20.00	yards			
Cell pH	Cl Con	d. %Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight

0.00

0.00

0.00

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

Ō

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart I), as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

____MSDS Information _____RCRA Hazardous Waste Analysis _____Process Knowledge ____Other (Provide description above)

Driver/ Agent Signature

Lab Analysis: 50/51

Customer Approval

R360 Representative Signature

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Approved By:

Bermian Basin	50	Customer: Customer #: Ordered by: AFE #: PO #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	CRI5830			Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-90450 Walk-in Bi 6/21/2018 VANGUAR 03849 ABO SWE 002 NON-DRII LEA (NM)	id RD) ROC	
Facility: CRI									
Product / Service				Q	uantity U	nits			
Contaminated Soil (I	RCRA Exemp	t)			20.00	yards			
Cell	рH	Cl Con	d. %Solid	s TDS	PCI/GM	MR/HR	H2S	% OII	Weight

0.00

0.00

0.00

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

n

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

Lab Analysis, 50/51

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Approved By:

FIT

TRANSPORTE	R'S MANIFEST
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241 DESCRIPTION OF WASTE:	
FACILITY CONTACT: Chuck Johnston Kyle Zimmennen Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: ChiphA Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER) M. MATTA TYWELLING Belly Dung Thuck # 150	Nome: <u>Jalo</u> Signature: <u>ET</u> Date: <u>6-21-18</u>
<u>DISPOSAL SITE:</u> R360 Halfway Facility A507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	signature: J. Maninur Date: U. 2415
	Direct Bill: Vanguard Operating, LLC Care Of: Kyle Zimmerman

TRANSPORT	'ER'S MAN	IFEST
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T17S, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		nan ya mya da mpinaka wa kata ya kata kata kata kata kata kata
DESCRIPTION OF WASTE:		
E&P EXEMPT IMPACTED SOIL		
VOLUME:		
FACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: ChiphA Date: <u>6-30-18</u>
NAME OF TRANSPORTER: (DRIVER) MMOTO #39 20 Yord	3 True	King
13/2-1		Signature:
DISPOSAL SITE:		Date: 0/0/1
R360 Haifway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Şignature:
	•	Date:
nyangganan kana kana menantaka di kelangkak di menang perakan dari di dista den yang dan dan di kenangkan dari	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman

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ENVIRONMENTAL SOLUTIONS	AFE #: PO #: Manifest #: Manif. Date:	CHUCK JOHNSTON NA 6/21/2018	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name:	700-904505 Walk-in Bid 6/21/2018 VANGUARD 03849 ABO SWD ROC
Permian Basin	Hauler: Driver Truck # Card # Job Ref #	M MATA TRUCKING LLC JUAN 39	Well #: Field: Field #: Rig: County	002 NON-DRILLING LEA (NM)
Facility: CRI				
Product / Service		Quantity	Units	
Contaminated Soil (RCRA Exempt)	20.0) yards	

							•				
_	Cell	pН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0,00	0.00	0,00	Ó						······

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by

characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): _______MSDS Information ______RCRA Hazardous Waste Analysis ______Process Knowledge ______Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:

Date:

2. ¹¹ 5	Customer: Customer #:			1	Ticket #: Bid #;	700-9045 Walk-in B	līd	
360	Ordered by: AFE #; PO #:				Date: 6/21/2018 Generator: VANGUARD Generator #:			
FAVIRONMENDUL Î SOLUTIONS (- E	Manifest #: Manif. Date:				Well Ser. #: Well Name:	03849 ABO SWI	D ROC	
Permian Basin	Hauler: Driver Truck #	ADRIAN			Well #: Field: Field #;	002		
	Card # Job Ref #				Rig: County	NON-DRI LEA (NM)		
Facility: CRI								
Product / Service			Q	uantity U	nits			
Contaminated Soil (RCRA Exer	npt)			20.00	yards			
Cell pH	Cí Con	d. %Solids	TDS	PCI/GN	1 MR/HR	H2\$	% Oil	Weight

0.00

0.00

0.00

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

Ö

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waster RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by

characteristics established in RCRA regulations, 40 CFR 261,21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): _______MSDS Information ______RCRA Hazardous Waste Analysis ______Process Knowledge ______Other (Provide description above)

Driver/ Agent Signatúre

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Customer Approval

Lab Analysis: 50/51

R360 Representative Signature

THIS IS NOT AN INVOICE!

Approved By:

TRANSPORT	TER'S MAN	NIFEST
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T17S, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241 DESCRIPTION OF WASTE: E&P EXEMPT IMPACTED SOIL VOLUME: <u>20 XJ</u>		
FACILITY CONTACT: Chuck Johnston Kyle Zimmermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752		Signature: Chiplet Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER) M. Mata Trucking Truck # 12		Name: $A(r, y)$ Signature: $A(r, q, r)$ Date: $G = 21 - 18$
<u>DISPOSAL SITE:</u> R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: MAC
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman

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TRANSPORTER'S MANIFEST						
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:				
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849				
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241 DESCRIPTION OF WASTE: E&P EXEMPT IMPACTED SOIL VOLUME:	****					
FACILITY CONTACT: Chuck Johnston Kyle Zhamermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: ChiphA Date: 6-30-18				
NAME OF TRANSPORTER: (DRIVER)	.	#38 Name: Scul Marke Signature: Scul Maarke Date: C3-21-12				
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature:				
		Vanguard Operating, LLC Kyle Zimmersson				

BASIC CONTRACTOR OF CONTRACTOR SOLUTIONS	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif, Date: Hauler: Driver Truck # Card # Job Ref #		STON	с	Ticket #: Bid #: Date: Generator; Generator #: Well Ser, #: Well Name: Well #: Field; Field #: Rig; County	700-90451 Walk-in Bid 6/21/2018 VANGUAF 03849 ABO SWD 002 NON-DRIL LEA (NM)	d RD ROC	
Facility: CRI								
Product / Service	Quantity Units							
Contaminated Soil (RCRA Exemp			20.00 \	/ards				
Cell pH	Cl Con	d. %Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight

Lab Analysis: 50/51 0.00 0.00 0.00

Generator Certification Statement of Waste Status

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

Ö

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by

characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): _______MSDS Information ______RCRA Hazardous Waste Analysis ______Process Knowledge ______Other (Provide description above)

Driver/ Agent Signature

Marken

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:

Date:

6/21/2014

RONMENTAL SOLUTIONS	AFE #: PO #: Manifest #: Manif, Date: Hauler: Driver	CHUCK JOHNSTON NA 6/21/2018 M MATA TRUCKING LLC HECTOR	Bid #: Date: Generator: Generator # Well Ser. #: Well Name:	Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field:	700-904517 Walk-in Bid 6/21/2018 VANGUARD 03849 ABO SWD ROC 002	
ity: CRI	Truck # Card # Job Ref #	151		Field #: Rig: County	NON-DRILLING LEA (NM)	
uct / Service aminated Soil (RCRA Exempt	Quantity Units 20.00 yards					

	Cell	pН	CI	Cond.	%Solids		MR/HR	H2S	% Oil	Weight
Analysis:	50/51	0.00	0.00	0.00	0	 		*****		,,

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

CRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-ICRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by cteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as ded. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): ASDS Information _____ RCRA Hazardous Waste Analysis ____ Process Knowledge ___ Other (Provide description above) 7443 H Agent Signature

R360 Representative Signature

omer Approval

THIS IS NOT AN INVOICE!

oved By:

Date:

and the set of the set of the

TRANSPORTER'S MANIFEST						
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:				
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWO #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849				
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	*****	<u></u>				
DESCRIPTION OF WASTE:		en an de la fait de la				
E&P EXEMPT IMPACTED SOIL						
VOLUME: 20						
FACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Annen Arkang gan satura (gan	Signaturé: ChiphA Date: <u>6-J0-18</u>				
NAME OF TRANSPORTER: (DRIVER)						
m. marta		Name: Hector B				
#151		Signature: <u>J/JB</u>				
r J A		Date: 6-71-18				
DISPOSAL SITE: R360 Haifway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	-	Signature: JMu Date: UZI US				
	Oirect Bill; Care Of:	Vanguard Operating, LLC Kyle Zimmerman				

Band Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	CHUCK JOHNS	ron	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Ser. #: Well Name: Well #: Field : Field #: Rig: County	03849	D	
Facility: CRI							
Product / Service			Quantity	Units			
Contaminated Soil (RCRA Exemp	t <u>)</u>		20.0	0 yards			
Cell pH	Cl Con	d. %Solids	TDS PCI/G	M MR/HR	H2S	% Oil	Weight

0.00

0.00

0.00

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

0

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart I), as

amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous, (Check the appropriate items): ______MSDS Information ______RCRA Hazardous Waste Analysis _____Process Knowlodge _____Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

Lab Analysis: 50/51

THIS IS NOT AN INVOICE!

Approved By:

2-
TRANSPORT	TER'S MAN	NIFEST
SHIPPERS FACILITY NAME AND ADDRESS: Vanguard Operating, ILC 4001 Penbrook, Suite 201, Odessa, TX 79752 TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263,		LOCATION OF MATERIAL: Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R35E Location: Lea Co, NM API: 30-025-03849
Hobbs, NM, 88241 <u>DESCRIPTION OF WASTE:</u> E&P EXEMPT IMPACTED SQIL VOLUME:		
FACILITY CONTACT: Chuck Johns ton Kylozimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature:
NAME OF TRANSPORTER: (DRIVER) M. MATH JRUCKING BENY DUMP TWIKE # 150		Name: Signature: Date:
<u>DISPOSAL SITE:</u> R360 Halfwøy Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: JP AUtor Date: U2118
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman

BARCATA SALATA PARTA DAS ASS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Cerd: # Job Ref #	VANGUARD P CRI5830 CHUCK JOHN NA 6/21/2018 M MATA TRUC JUAN 39	STON		Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well A: Field: Field #: Rig; County	03849	Id RD D ROC	
Facility: CRI								
Product / Service			Q	uantity U	nits			
Contaminated Soil (RCRA Exemp	t)			20.00	yards			
Cell pH	CI Con	d. %Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight

0.00

0.00

0.00

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

0

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast _ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by pharacteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart 1), as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): _ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

where the state of	- nongeriaca unital maste milatysis	Frocess Knowledge	Uner (Provide description)
Driver/ Agent Signatu	m for the	R360 Representative S	
Customer Approval	4. <u> </u>		W
аатанта Арргоуд	THIS IS N		SE!

Approved By:

Lab Analysis: 50/51

TRANSPORTER'S MAI	NIFEST
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1253, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL	
VOLUME:	
FACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: ChiphA Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER) M Mata Tro. #3920 yard	(King Name: JUCIN Galaviz Signature: 1990 Date: 6/21/18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: MARS
Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman

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و و	Customer:	VANGUARD PERMIA	N	Ticket #:	700-904560	
	Customer #: Ordered by:	CHUCK JOHNSTON		Bid #: Date:	Walk-in Bid 6/21/2018	
.50 //	AFE #:			Generator:	VANGUARD	
NVIPONMENTAL 33	PO #: Manifest #:	NA		Generator #;	000.40	,
NVIPONMENTAL ST. ST.		6/21/2018			03849 ABO SWD ROC	
'ermian Basin	Hauler: Driver	M MATA TRUCKING ADRIAN	LLC	Well#:	002	
	Truck #	12		Field: Field #:		
	Card #			Rig:	NON-DRILLING	
	Job Ref#			County	LEA (NM)	
acility: CRI						
roduct / Service			Quantity U	nits		
Instaminated Sell (DODA Evenes						

A BARREN AND A CONTRACT OF A CONTRACTACT OF A CONTRACT OF A CONTRACTACT OF A CONTRACTACT OF A CONTRACTACT OF A CONTRACTACTACTACTACTACTACTACTACTACTACTACTACTA	live	VUW EX	empty				12.00 ya:	rds			
Cell		pН	C!	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
ab Analysis: 50/5	1	0.00	0.00	0.00	0				, , ,,		

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by haracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as mended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information ______ RCRA Hazardous Waste Analysis ______ Process Knowledge ______ Other (Provide description above)

river/ Agent Signature

R360 Representative Signature

ustomer Approval

THIS IS NOT AN INVOID

\pproved By:

TRANSPORTER'S MANIFEST							
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:						
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T1 Location: Lea Co, NM API: 30-025-03849	75, R36E					
TRANSPORTERS NAME AND ADORESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	99999999999999999999999999999999999999	79 - 20 - 4 7 - 27 - 27 - 27 - 27 - 27 - 27 - 27 -					
DESCRIPTION OF WASTE: E&P EXEMPT IMPACTED SOIL VOLUME: 20 K		994 an daoine ann an Anna an Anna Anna Anna Anna An					
FACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752	Signature: CHU Date: 6-30-						
NAME DE TRANSPORTER: (DRIVER) M. Mata Troding Truck #12.	Name: <u>Adrium</u> Signature: <u>Adrica</u> Date: <u>6-21-1</u>						
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: JMA Date: UZUU						
	Direct Bill: Vanguard Operating, LLC Care Of: Kyle Zimmerman						

Environmental Permian Basin	60	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif, Date: Hauler: Driver Truck # Card # Job Ref #	CRI5830 CHUCK NA 6/21/201	J JOHNSTO	N	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	03849	d ROG	
Facility: CRI									
Product / Service				ı.	Quantity (Inits			
Contaminated Soil	(RCRA Exempt	t)			20.00	yards			
Cell		Cl Con	d. %So	olids TDS	PCI/GN	MR/HR	H2S	% Oil	Weight
Lab Analysis: 50/5	1 0.00 (0.0 0.0	0 ()	······································				

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as

amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): _______MSDS Information ______RCRA Hazardous Waste Analysis ______Process Knowledge _____Other (Provide description above)

Driver/ Agent Signature

Soul Marulan

Customer Approval

R360 Representative Signature

THIS IS NOT AN INVOICE!

Approved By:

Date:

TRANSPOR	TER'S MÀ	NIFEST
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL *C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
<u>TRANSPORTERS NAME AND ADDRESS;</u> M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		
DESCRIPTION OF WASTE:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,, ,,,,,,,,	
E&P EXEMPT IMPACTED SOIL		
VOLUME:		
FACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: ChiphA Date: 6-30-18
NAME OF TRANSPORTER: (ORIVER)		77-38 Name Such March
		Signature: Crack Ricere be
		Date: <u>(-2)</u>
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		signature: AMALA Date: UKILA
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman

BARENTAL SOLUTIONS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif, Date: Hauler: Driver Truck # Card # Job Ref #	VANGUARD PERMIA CRI5830 CHUCK JOHNSTON NA 6/21/2018 M MATA TRUCKING I HECTOR 151	Bid #: Date: Generator: Generator # Well Ser. #: Well Name:	700-904569 Walk-in Bid 6/21/2018 VANGUARD 03849 ABO SWD ROC 002 NON-DRILLING LEA (NM)	
Facility: CRI					
Product / Service		c	luantity Units		
Contaminated Soil (RCRA Exempt)		20.00 yards		
	CI Cond		PCI/GM MR/HR	H2S % Oil	Weight

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast _______ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

MSDS Information _____ RCRA Hazardous Waste Analysis ____ Process Knowledge ____ Other (Provide description above)

Driver/	Agent Signature	
---------	-----------------	--

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:

Date: _____

TRANSPORTE	R'S MAN	IFEST
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		<u>, ya daga ana ana ana ana ana ana ana ana ana </u>
DESCRIPTION OF WASTE:		<u>, , , , , , , , , , , , , , , , , , , </u>
E&P EXEMPT IMPACTED SOIL		
VOLUME: 20 Nº 151		
FACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: ChiphA Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER)	nga Manundi da A Maka Suka	Name: <u>Hector B</u> Signature: <u>HAB</u> Date: <u>6-21-18</u>
DISPOSAL SITE: R360 Halfway Facility 4507 W Carisbad Hwy PO Box 388 Hobbs, NM 88241		Signature: MAC
**************************************	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman

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A Solutions Permian Basin	Customer: Customer #: Ordered by: AFE #; PO #; Manifest #; Manif. Date: Hauler; Driver Truck # Card # Job Ref #	CHUCK JOHN	ISTON		Ticket #: Bid #: Date: Generator: Generator: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	-	Sid RD D ROC	
Facility: CRI								
Product / Service			Q	uantity U	nits			
Contaminated Soll (RCRA Exen	ipť)			20.00	/ards			
Cell pH	Cl Con	d. %Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weigh
Lab Analysis; 50/51 0.00	0.00 0.0	0 0			······································	*****	488 7777 1 877777777777777777777777777777	

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

____MSDS Information _____RCRA Hazardous Waste Analysis ____ Process Knowledge ____ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:

Date:

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TRANSPORT	rer's man	IFEST
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		An
DESCRIPTION OF WASTE:		79991111111111111111111111111111111111
E&P EXEMPTIMPACTED SOIL		
VOLUME:		
FACILITY CONTACT: Chuck. Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: CMJAA Date: 6-30-18
NAME OF TRANSPORTER: IDRIVERI M. MATA JRUCKING BEILY DUMP TRUCK 150		Name: Lalo Signature: ET Date: 6-21-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: JM AUTON Date: U2115
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman

360	Customer: Customer #: Ordered by: AFE #: PO #:	VANGUARD PERMIAN CRI5830 CHUCK JOHNSTON	Ticket #: Bid #: Date: Generator: Generator #:	700-904623 Walk-in Bid 6/21/2018 VANGUARD		
EN INDRIVENTAL	Manifest #:	NA	Well Ser. #;			
50 317 MAS 162 - 27	Manif. Date;	6/21/2018	Wéll Name:	ABO SWD ROC		
Permian Basin	Hauler:		Well #:	002		
	Driver Truck #	JUAN 39	Field:			
	Card #	39	Field #: Rig:	NON-DRILLING		
	Job Ref #		County	LEA (NM)		
Facility: CRI						
Product / Service		Quantity	/ Units			
Contaminated Soil (RCRA Exemp	et)	20.00 yards				

Celi	pН	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis: 50/51	0.00	0.00	0.00	0	***********		·····		******	

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information _______ RCRA Hazardous Waste Analysis _______ Process Knowledge _______ Other (Provide description above)

Driver/ Agent Signature **Customer Approval**

R360 Representative Signature

THIS IS NOT AN INVOICE!

Approved By:

TRANSPORTER'S MANIFEST						
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:					
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849					
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, B8241						
DESCRIPTION OF WASTE:						
E&P EXEMPT IMPACTED SOIL						
FACILITY CONTACT: Chnek Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: ChiphA Date: 6-30-18					
NAME OF TRANSPORTER: (DRIVER) MMata Tra #39201/05d	14ing Name: JUCH Galavrz Signature: 1790 Date: 6/21/18					
DISPOSAL SITE: R360 Halfway Facility 4507 W Carisbad Hwy PO Box 388 Hobbs, NM 88241	Signature: Markan Date: URUX					
Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman					

BUTTONS SERVICE	AFE #: PO #: Manifest #: Manif. Date:	CHUCK JOHNSTON	LC	Ticket #: Bid #; Date: Generator: Generator #: Well Ser. #; Well Ser. #; Well Name: Well #: Field; Field #: Rig; County	
acility: CRI					
Product / Service	1	a	Juantity U		

	,						zu.uu ya	rus			
Ce		рН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
ab Analysis: 50/	51	0.00	0.00	0.00	0		······································				rroight

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is:

river/ Agent Signature

Manuter

ustomer Approval

R360 Representative Signature

THIS IS NOT AN INVOICE!

pproved By:

TRANSPO	RTER'S MA	NIFEST
SHIPPERS FACILITY NAME AND ADDRESS		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO 80X 1253, Hobbs, NM, 88241	1964 - 1969 - 1969 - 1969 - 19 69 - 1960 - 1969 - 1960 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1960 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1960 -	annan antar kata da kata kata kata kata kata kata k
DESCRIPTION OF WASTE:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
E&P EXEMPT IMPACTED SOIL		
VOLUME:		
EACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: ChiphA Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER)	**************************************	77-38
		Name: Such March
		Signature: Course 1 Live be
		Date: 6-21-19
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: AMALE Date: UKULE
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman

,

Band Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	VANGUARD PERMIAN CRI5830 CHUCK JOHNSTON NA 6/21/2018 M MATA TRUCKING LLC HECTOR 151	Ticket #; Bid #; Date: Generator: Generator # Well Ser. #; Well Name; Well Name; Field; Field #; Rig; County	700-904644 Walk-in Bid 6/21/2018 VANGUARD 03849 ABO SWD ROC 002 NON-DRILLING LEA (NM)
Facility: CRI				
Product / Service		Quantity	Units	

Contaminated Soil (RCRA Exempt)					20.00 ya	rds					
	Cell	pН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis	50/51	0.00	0.00	0.00	0	*****	******			*********	

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast _____ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by

characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart 1). as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

____MSDS Information ____RCRA Hazardous Waste Analysis ___ Process Knowledge ___ Other (Provide description above)

Driver/ Agent Signature

NAB

Customer Approval

R360 Representative Signature

THIS IS NOT AN INVOICE!

Approved By:

TRANSPOR	TER'S MAN	NIFEST
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Sulte 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T17S, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO 80X 1263, Hobbs, NM, 88241.		
DESCRIPTION OF WASTE:	d anta,	
E&P EXEMPT IMPACTED SOIL		
VOLUME: 20 Nº 151		
FACILITY CONTACT: Chuel (Johnston) Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752		Signature: ChiphA Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER)		
		Name: <u>Hertor B</u> Signature: <u>HAB</u>
		Signature: <u>H</u> +B
		Date: 6-2/-18
<u>DISPOSAL SITE:</u> R360 Halfway Facility	********	
4507 W Carlsbad Hwy PO Box 388		Signature: ALL
Hobbs, NM 88241	-	Date: LUKU
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman

and the second
Read Antion States Antion Stat	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	CHUCK JOHNSTON	Bid #: Date; Generator; Generator #: Well Ser. #: Well Name;		
Facility; CRI					
Product / Service		Q	uantity Units		
Contaminated Soil (RCRA Exempl	t)		20.00 yards		
Cell pH	Cl Cond	d. %Solids TDS	PCI/GM MR/HR	H2S % Oil	Weight

0.00

0.00

0.00

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

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X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above) ___ MSDS Information

Driver/ Agent Signature

R360 Representative Signature

Weight

Customer Approval

Lab Analysis: 50/51

THIS IS NOT AN INVOICE!

Approved By:

TRANSPORTER'S MANIFEST						
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:					
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T17S, R36E Location: Lea Co, NM API: 30-025-03849					
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241						
DESCRIPTION OF WASTE:						
E&P EXEMPT IMPACTED SOIL						
VOLUME:						
FACILITY CONTACT: Chuck Johnston Kyle Zimmermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: ChiphA Date: 6-30-18					
NAME OF TRANSPORTER: (DRIVER) MMata Tro #39201/ard	(KSN9 Name: JUCIN Galavie Signature: 1990 Date: 6/21/18					
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: AMAR Date: UZALS					
Direct Bill: Care Of;	Vanguard Operating, LLC Kyle Zimmerman					

TRANSPORTER'S MAN	VIFEST
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM ÁPI: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL	
VOLUME:	
FACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752	signature: CMphA Date: 6-30-18
NAME OF TRANSPORTER (DRIVER) M Mata True #39 20 1/06d Truck #12	Name: Jon Green G Name: Jon Greetaure Signature: 430 Date: 6/21/18
<u>DISPOSAL SITE:</u> R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241.	Signature: JMAR Date: URU(8
Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman

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NVIRONMENTAL SOLUTIONS	AFE #: PO #: Manifest #: Manif. Date:	CHUCK JOHNSTON	LLC	Well Name: Well #: Field: Field #: Rig:	700-904789 Walk-in Bid 6/22/2018 VANGUARD 03849 ABO SWD ROC 002 NON-DRILLING LEA (NM)
acility: CRI					
roduct / Service		c	Quantity U	nits	

ontaminated S	ioil (R	CRA Ex	empt)				20.00 ya	rds			
htteren	Cell	рΗ	CI	Cond,	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
ab Analysis; 5	0/51	0.00	0.00	0.00	Ő						

nereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is:

K RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by taracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as nended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_MSDS Information __ RCRA Hazardous Waste Analysis __ Process Knowledge __ Other (Provide description above)

river/ Agent Signature

R360 Representative Signature

ustomer Approval

THIS IS NOT AN INVOICE!

pproved By:

Date:

SOLUTIONS	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	VANGUARD F CRI5830 CHUCK JOHN NA 5/22/2018 M MATA TRUG SAUL 38	ISTON		Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Ser. #: Well Name: Well Ame: Well #: Field #: Rig: County	03849		
Facility: CRI								
Product / Service			Q	uantity U	nits			
Contaminated Soil (RCRA Exemp	t)			20.00	yards			
Cell pH	СІ Сол	d. %Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight

0.00

0.00

0.00

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D. us amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_____MSDS Information _____RCRA Hazardous Waste Analysis _____Process Knowledge ____Other (Provide description above)

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Driver/ Agent Signature

lander

Customer Approval

Lab Analysis: 50/51

R360 Representative Signature

THIS IS NOT AN INVOIC

Approved By:

TRANSPOR	ter's map	NIFEST
SHIPPERS FACILITY NAME AND ADDRESS: Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		LOCATION OF MATERIAL: Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241. DESCRIPTION OF WASTE: E&P EXEMPT IMPACTED SOIL		
VOLUME: FACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: ChiphA Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER) M. MATH TRUCKING BELLY DUMP TRUCK HE 150 38		Name: Fatto Sam Signature: ET Date: <u>G-21-18</u>
<u>DISPOSAL SITE:</u> R360 Halfway Facility 4507 W Carisbad Hwy PO Box 388 Hobbs, NM 88241		Signature: Martin Date: U 2018
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman

1

SHIPPERS FACILITY NAME AND ADDRESS;

Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762 LOCATION OF MATERIAL:

Site:ABO SWD #2Legals:UL "C", Sec. 2, T175, R36ELocation:Lea Co, NMAPI:30-025-03849

TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241

DESCRIPTION OF WASTE:

E&P EXEMPT IMPACTED SOIL

VOLUME:

FACILITY CONTACT: Chuck Johnston Kyle Zimmermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752

Signature: C

6-30-18

NAME OF TRANSPORTER, (DRIVER) M Mata Trucking 439 201/060 Name: It MAINE Truck #12 Signature Date:

<u>DISPOSAL SITE:</u> R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: March
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman

NVIRONMENTAL SOLUTIONS	AFE #: PO #: Manifest #: Manif, Date: Hauler:	CHUCK JOHNSTON			
acility; CRI					
roduct / Service		(Quantity U	nīts	
Ontaminated Soll (DCDA Example	`				

onterminated 200 (KONA EXE	mpt)				20.00 ya	rds			
Cell	рН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oíl	Weight
ab Analysis; 50/51	0.00	0.00	0.00	0	******				10 01	Freigne

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is:

river/ Agent Signature

run

ustomer Approval

R360 Representative Signature

THIS IS NOT AN INVOICE!

pproved By:

ANNUBRINANERTAL GOLUMON'S CARACTERINA Permian Basin	Customer: Customer # Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #		STON		Ticket #: Bid #: Date: Generator: Generator: Generator #; Well Ser, #: Well Name: Well Name: Well #: Field: Field #: Rig: County	700-9048; Walk-in Bi 6/22/2018 VANGUAR 03849 ABO SWE 002 NON-DRII LEA (NM)	id RD) ROC	
Facility: CRI								
Product / Service			Qu	iantity U	nits			
Contaminated Soil (RCRA Exer	ipt)			20.00	yards			
Cell pH	CI Con	d. %Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight

0.00

0.00

0.00

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

____MSDS Information ____RCRA Hazardous Waste Analysis ____ Process Knowledge ___ Other (Provide description above)

Õ

Driver/ Agent Signature **Customer Approval**

R360 Representative Signature

THIS IS NOT AN INVOICE!

Approved By:

Lab Analysis. 50/51

TRANSPORTER'S MA	NIFEST
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO 6OX 1263, Hobbs, NM, 88241	
DESCRIPTION DE WASTE:	
E&P EXEMPT IMPACTED SOIL	
VOLUME:	
FACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Sulte 201, Odessa, TX 79762	Signature: CALLA Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER) M MATA Tro #39 20 yard	(1679 Name: JUCH Galaurz Signature: 190 Date: 6/21/18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: Marto Date: UR&US
Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman

a name a contains to a lower, term representations are seen a set of the
NVIRONMENTAL SOLUTIONS	AFE #: PO #: Manifest #: Manif. Date: Hauler.	CHUCK JOHNSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well A: Field: Field #: Rig: County	03849
acility: CRI				
Product / Service		Quantity L	Inits	
contaminated Soll (RCRA Exempt	:)	20.00	yards	

Cell pН CI Cond. %Solids TDS PCI/GM MR/HR H2S % OII Weight .ab Analysis: 50/51 0.00 0.00 0.00 0

Jenerator Certification Statement of Waste Status

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is:

)river/ Agent Signature

R360 Representative Signature

Sustomer Approval

THIS IS NOT AN INVO

Approved By:

TRANSPORT	TER'S MANIFEST
SHIPPERS FACILITY NAME AND ADDRESS	
	LOCATION OF MATERIAL
Vanguard Operating, LLC 4001 Perbrook Sufer 200	
4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Legals: UL "C", Sec. 7, 7770, no. 5
	Legals: UL "C", Sec. 2, T17S, R36E Location: Lea Co, NM
TRANSPORT	API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking,	***************************************
O BOX 1263,	
lobbs, NM, 88241	
ESCRIPTION OF WASTE:	
AP EXEMPT IMPACTED SOIL	
CIUTY CONTACT:	-
huck Johnston	
de Zimmerman.	Signature: Chiphy
nguard Operating, LLC 01 Penbrook, Sulte 201, Odessa, TX 79762	
12 1 enorous, Suite 201, Daessa, 1X /9762	Date: 6-20-18
ME OF TRANSPORTER (DRIVER) M MACTA	The sure Adam 6
ME OF TRANSPORTER, IDRIVER) MMata #39 20 1/06d	TUCKING FORM
#39 20 1/ard	Name: _ OCAL ALANYZ
inck #12	Signature: Ayo
Articles, in some	ABURING TA ILC
	Date: 6/2///8
*****	*****
20SAL SITE: D Malform Facility	
D Halfway Facility 17 W Carlsbad Hwy	line
Box 388	Signature:
bbs, NM 88241	
	Date: (1.7.1.18
	- hand for the second s
	Direct Bill: Vanguard Operating, LLC
	Care Of: Kyle Zimmerman

TRANSPOR	TER'S MANIFEST
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL	
VOLUME:	
FACILITY CONTACT: Chuel (Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: ChiphA Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER) M. MARTA JRUCKING BOLLY DUMP TRUCK HE LEO 38	Name: <u>Lato</u> Saul Signature: <u>ET</u> Date: <u>6-21-18</u>
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: Jp Auton Date: U22118
ад на области и били руди и произна со	Direct Bill: Vanguard Operating, LLC Care Of: Kyle Zimmerman

BONMENTAL SOLUTIONS	Customer: Customer #: Ordered by: AFE, #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	CHUCK JOHNSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser, #: Well Name: Well Name: Vell #: Field: Field #: Rig: County	
lity: CRI				
luct / Service		Quantity I	Jnits	
taminated Soil (RCRA Exemp	Ð	20.00	vards	

tanniated Soli (K	CICH EXE	mpy				20,00 ya	145				
Cell	рН	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight	
Analysis: 50/51	0.00	0,00	0.00	0							*

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

RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waster RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by acteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as ided. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information _____ RCRA Hazardous Waste Analysis _____ Process Knowledge _____ Other (Provide description above)

er/ Agent Signature

Markanc

tomer Approval

R360 Representative Signature

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roved By:

Date:

4010DMI



TRANSPORT	ER'S MANIFEST
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241. DESCRIPTION OF WASTE: E&P EXEMPT IMPACTED SOIL VOLUME:	
FACILITY CONTACT: Chnek Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: CMAAA Date: <u>6-30-18</u>
NAME OF TRANSPORTER: (DRIVER) M. MATH TWCKING BOLLY DUMP TRUCK # +50	Name: Jalo Signature: FV Date: 6-21-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: T. Maginu7 Date: 42218
adama dibi bila dang sama malang sama gibawang panananan karanak karina karanak dan marana sa diba	Direct Bill: Vanguard Operating, LLC Care Of: Kyle Zimmerman

ENVIRONMENTAL SOLUTIONS	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif, Date: Hauler: Driver Truck # Card # Job Ref #	CHUCK JOHN	STON		Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field; Field #: Rig: County	700-90483 Walk-in Bi 6/22/2018 VANGUAF 03849 ABO SWD 002 NON-DRIL LEA (NM)	id RD 3 ROC	
Facility: CRI								
Product / Service			Q	uantity U	nits			
Contaminated Soil (RCRA Exempt) 20.					ards			
Cell pH	Cl Con	d. %Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight

0,00

0.00

0.00

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

0

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

____MSDS Information ____RCRA Hazardous Waste Analysis ____ Process Knowledge ___ Other (Provide description above)

Driver/ Agent Signature

R360 Représentative Signature

Customer Approval

Lab Analysis: 50/51

THIS IS NOT AN INVOICE!

Approved By:

F.I

ENVIRONMENTAL SOLUTIONS	50	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	VANGUARD I CRI5830 CHUCK JOHN NA 6/22/2018 M MATA TRU ADRIAN 12	ISTON		Ticket #: Bid #: Date; Generator: Generator # Well Ser. #: Well Name; Well Name; Well #: Field: Field #; Rig; County	03849		
Facility: CRI									
Product / Service				Q	uantity U	nits			
Contaminated Soil (R	CRA Exemp	et)			20,00	yards			
Cell	ġΗ	Cl Con	d. %Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight

0.00

0.00

0.00

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

____MSDS Information ____RCRA Hazardous Waste Analysis ____ Process Knowledge ____ Uther (Provide description above)

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Driver/ Agent Signature rein

Customer Approval

Lab Analysis: 50/51

R360 Representative Signature

THIS IS NOT AN INVOICE!

Approved By:

TRANSPORT	rer's manifest
SHIPPERS FACILITY NAME AND ADDRESS	LOCATION OF MATERIAL
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Ddessa, TX 79762	Site: ABO <i>S</i> WD #2 Legals: UL "C", Sec. 2, T17S, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO 80X 1263, Hobbs, NM, 88241	аналандан тарааттар жана тарааттар жана тарааттар жана тарааттар тарааттар тарааттар тарааттар тарааттар тараат
DESCRIPTION OF WASTE:	****
E&P EXEMPT IMPACTED SOIL	
VOLUME:	
FACILITY CONTACT: Chuc K. Johnston Kyte Zimmermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: ChiphA Date: 6-30-18
VAME OF TRANSPORTER (DRIVER) M Mata #39 20 1/06d Tweek #12	- Trocking Adrian 6 Name: Jose Grafavore Signature: 440 Date: 6/21/18
ISFQSAL SITE: 360 Halfway Facility 307 W Carlsbad Hwy D Box 388 36bbs, NM 88241	Signature: AMAR Date: UZUS
	rect Bill: Vanguard Operating, LLC Care Of: Kyle Zimmerman

TRANSPOR	TER'S MAN	IIFEST
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		аннау калан та <u>та та т</u>
DESCRIPTION OF WASTE:		
E&P EXEMPT IMPACTED SOIL		
VOLUME:		
FACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752		Signature: CMphA Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER) M. MARTA JRUCKING BENLY DUMP TRUCK HE LES 38		Name: <u>Fato</u> Saul Signature: <u>ET</u> Date: <u>G-21-18</u>
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	ana a na maka yaya asimilar	Signature: JP Auton Date: U2018
тата диницији на "Иниски Силдију, је једи и је	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman

State of New Mexico **Energy Minerals and Natural Resources**

Form C-141 Revised August 8, 2011

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

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

Release Notification and Corrective Action

		OPERATOR	🛛 Initial Repo	rt	Final Report
Name of Company: Vanguard		Contact: Chuck Johnston			
Address: 4001 Penbrook, Suite 201, Ode	ssa Texas 79762	Telephone No. 432-202-4771			
Facility Name: ABO SWD #2		Facility Type: Tank Battery			
Surface Owner: State	Mineral Owne	r:	API No.		

Surface Owner: State

Mineral Owner:

LOCATION OF RELEASE

Unit Letter C	Section 2	Township 17S	Range 36E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea

Latitude: <u>N 32.868700°</u> Longitude: <u>W 103.326070°</u>

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: unknown	Volume Recovered: unknown
Source of Release: Tank Battery	Date and Hour of Occurrence:	Date and Hour of Discovery:
	Historic	Historic
Was Immediate Notice Given?	If YES, To Whom?	
Yes 🛛 No 🗌 Not Requir		
By Whom?	Date and Hour:	
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse:	
🗋 Yes 🕅 No	Not Applicable	
If a Watercourse was Impacted, Describe Fully.* Not Applicable		
	RECEIVED	
Describe Cause of Problem and Remedial Action Taken.*	By Olivia Yu at 9:07 am, Sep 21, 2017	
Historic release of produced water from SWD tank battery.	By Olivia 10 at 9.07 all, Sep 21, 2017	
Describe Area Affected and Cleanup Action Taken.*		
Discovered historic release areas from SWD tank battery. Samples will be collected and sent to the lab for testing.		
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.		
nn il	OIL CONSERVATION DIVISION	
in the the	N ()	
Signature:		PUL
Printed Name: Chuck Johnston	Approved by Environmental Speciali	ist:
TIMOU TUNIO, CHUAR ANNOLON	0/21/2017	
Title: EHS	Approval Date: 9/21/2017	Expiration Date:
E-mail Address: cjohnston@vnrllc.com	Conditions of Approval:	Attached
Date: 9-19-2017 Phone: 432-202-4771	see attached directive	e
Date: 779-001/ Phone: 432-202-4771 * Attach Additional Sheets If Necessary		
Attach Additional Sneets II Necessary		
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