State of New Mexico Energy Minerals and Natural Resources

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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.

				Sa	anta Fe	e, NM 875	05						
			Rele	ase Notifi	cation	and Co	orrective A	ction					
						OPERA	ГOR		🗔 Initia	al Report	\boxtimes	Final Report	
Name of Co	ompany: So	uthern Unic	on Gas Se	rvices			chel Johnson					<u>_</u>	
		464, Monah			1	Telephone 1	No.: 325.514.26	36	-				
Facility Na	me 6 Inch	Lateral (Cl	nicken Fa	rm)		Facility Typ	e: Natural Gas I	Pipeline	2				
Surface Ow	ner: Claude	e Kizzar		Mineral (Dwner	er API No. 30-025-28822							
Surleve on													
						VOF RE							
Unit Letter E	Section 21	Township 23S	Range 37E	Feet from the	North/	South Line	Feet from the	East/W	/est Line	County Lea			
		Latitude_	32 degre	es 06' 59.98"_	•]	Longitude_	103 degrees 10'	' 25.15'	,				
				NAT	TURE	OF REL	EASE						
				duced Water			Release: > 5 bbls			Recovered: N			
Source of Re	elease: 6-inch	n steel pipelin	ie				lour of Occurrenc	e:		Hour of Dis			
Was Immedi	Vas Immediate Notice Given?					Unknown If YES, To	Whom?		Novembe	r 30, 2012 –	- 0530 h	ours	
ii us minteu			Yes 🛛	No 🗌 Not R	equired		Whom:						
By Whom?					-	Date and H	lour			HOP	D0 0		
Was a Water	course Reac	hed?					lume Impacting t	he Wate	rcourse.	1100	BS OC		
			Yes 🛛	No						AUG 2			
4-Inch poly p was placed b Describe Are Southern Un from the exc to the labora were remedia original cond details. I hereby cert regulations a public health should their	pipe. The respective of the respective of the service of the servi	ulting release e. ind Cleanup A reclassify thi and stockpik ene, BTEX, 3 acceptable t se reference 1 hformation gi are required t onment. The ave failed to a ddition, NMC	e did not ca Action Tak s release a ed soil was TPH and c o the NMC NOVA Saf iven above o report ar acceptance adequately OCD accep	use any fire, inju en.* This releas a reportable rel- transported for o hloride analysis. DCD. The excava ety and Environ is true and comp d/or file certain the of a C-141 rep investigate and	ury or pro- se was in ease, due disposal t Laborato ated areas mental Ro- plete to the release no ort by the remediato	itially deeme to the depth to Sundance a ory analytical s were backfi emediation S ne best of my otifications a e NMOCD me e contaminati	perated by a 3 rd P e. The pipeline wa d non-reportable to of impact. The ar Services in Eunice results indicated lled with locally p ummary and Site knowledge and u nd perform correc arked as "Final R on that pose a thr e the operator of	as shut-i to the Nl ea was e e, New M benzene purchase Closure nderstan tive acti eport" d eat to gr	n, repairs v MOCD. Do xcavated, Aexico. Th , BTEX, T d caliche a Request d d that purs ons for rel- oes not rel- ound water	were comple uring remed soil samples e soil sampl PH and chlo nd the site v ated July 20 suant to NM eases which ieve the oper r, surface wa	iation ac were control of the oride control of the vas resto 13, for the OCD ru may en rator of ater, hun	the pipeline ctivities, ollected submitted ncentrations ored to further lles and danger liability nan health	
Signature: Printed Nam	E: Rachel Jol	Att.	G) pr		Approved by	Environmental	Slex Decialist	J J	DIVISIO RM ecialist	<u>b</u>		
Title: Enviro	nmental Spe	cialist				Approval Da	te: 08/30/13		-	iration Date:			
E-mail Addr	ess: Rachel.j	ohnson@reg	encygas.co	<u>m</u>	(Conditions of	f Approval:			Attached			
Date:8/23/20	13			Phone: 325.514.									

* Attach Additional Sheets If Necessary

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SEP 0 4 2013

INLAKI

REMEDIATION SUMMARY

AND SITE

CLOSURE REQUEST

Southern Union Gas Services Chicken Farm 6 Inch Lateral Release Lea County, New Mexico UNIT LTR "E" (SW ¼ /NW ¼), Section 21, Township 25 South, Range 37 East Latitude 32° 06' 59.98" North, Longitude 103° 10' 25.15" West NMOCD Reference # 1RP-1-13-2900



Prepared For:

Southern Union Gas Services 801 South Loop 464 Monahans, Texas 79756

Prepared By:

NOVA Safety & Environmental 2057 Commerce Midland, Texas 79703

July 2013

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Jonathan P. Repman Project Manager

Brittan K. Byerly, President

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AUG 2 3 2013

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1.0 INTRODUCTION

Nova Safety & Environmental (NOVA), on behalf of Southern Union Gas Services (SUGS), has prepared this Remediation Summary and Site Closure Request for the release site known as Chicken Farm 6 Inch Lateral. The legal description of the release site is Unit Letter "E" (SW ¼ NW ¼), Section 21, Township 25 South, Range 37 East, in Lea County, New Mexico. The property affected by the release is owned by Mr. Claude Kizzar. The release site GPS coordinates are 32° 06' 59.98" North and 103° 10' 25.15" West. Please reference Figure 1 for a Site Location Map and Figure 2 for a Site Details Schematic and Confirmation Soil Sample Locations Map. The Release Notification and Corrective Action (Form C-141) is provided as Appendix D.

On November 30, 2012, SUGS discovered a release of crude oil, natural gas and produced water had occurred from a six (6) inch steel pipeline, slip-lined with a four (4) inch poly pipe. The cause of the release was due to a third party line strike with a D-6 Caterpillar Bulldozer while mining caliche. The release occurred on the northern outer edge of a caliche pit and flowed down gradient to a geographically low area where caliche mining was ceased due to the induration of the caliche. Upon excavation it was apparent the increase in hardness was due to siliceous caliche measuring approximately three (3) feet in thickness in which no fracturing was observed. The initial flow path observed on the surface measured approximately one hundred forty-five (145) feet south of the release point with a maximum width of thirty (30) feet. The SUGS release was not observed to the north of the six (6) inch line due to the slope of the ground surface. In addition, a stock pile of top soil, piled by the third party during excavation activities, was also piled to the north of the line approximately one foot north of the line strike. The third party stock pile measured to be approximately sixty (60) feet east to west and eight (8) feet north to south with a maximum height of five (5) feet. During initial response activities, SUGS shut in the pipeline, removed approximately forty (40) feet of steel pipe, and used a four (4) inch poly line to complete repairs. SUGS submitted the Release Notification and Corrective Action (Form C-141) to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office on January 11, 2013. The C-141 indicated approximately greater than five (>5) barrels of fluids were released from the pipeline, with no recovery. General photographs of the site are provided as Appendix B.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Office of the State Engineer (NMOSE) database did not identify the average depth to groundwater information for Section 21, Township 25 South, Range 37 East. A reference map utilized by the NMOCD indicated depth to groundwater at the release site should be encountered at approximately eighty (80) feet below ground surface (bgs). The depth to groundwater at the Chicken Farm 6 Inch Lateral Release Site results in a score of ten (10) points being assigned to the site, based on the NMOCD depth to groundwater criteria.

The water well database, maintained by the NMOSE, indicated there are no water wells less than 1,000 feet from the release, resulting in zero (0) points being assigned to this site as a result of this criteria.

There are no surface water bodies located within 1,000 feet of the site. Based on the NMOCD ranking system zero (0) points will be assigned to the site as a result of the criteria.

The NMOCD guidelines indicate the Chicken Farm 6 Inch Lateral Release Site has ranking score of ten (10). Based on this score, the soil remediation levels for a site with a ranking score of ten (10) points are as follows:

- Benzene -10 mg/Kg (ppm)
- BTEX 50 mg/Kg (ppm)
- TPH 1,000 mg/Kg (ppm)

The NMOCD chloride cleanup level concentrations are site specific and will be determined by the NMOCD Hobbs District Office.

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On December 6, 2012, Nova, at the request of SUGS, commenced remediation activities at the Chicken Farm 6 Inch Lateral Release Site. Excavated soil was stockpiled on-site pending final disposition. The excavation of impacted soil was completed on February 14, 2013. Approximately 3,136 cubic yards of soil was stockpiled on-site during excavation activities. The final dimensions of the excavation were approximately one hundred seventy-two (172) feet in length, ranged from approximately four (4) feet to seventy-two (72) feet in width and ranged from approximately seven (7) feet to twenty-six (26) feet in depth. Please reference Figure 2 for site details.

On December 13, 2012, four (4) soil samples (S/W-1 @ 6 ft, E/W-1 @ 6 ft, W/W-1 @ 6 ft, and BH-1 @ 7 ft) were collected from the excavation. The soil samples were submitted to the laboratory for determination of concentrations of benzene, toluene, ethyl-benzene and xylene (BTEX), total petroleum hydrocarbon (TPH), and chlorides using EPA SW-846 8021B, SW-846 8015M, and E 300, respectively. BTEX and TPH concentrations were less than the appropriate laboratory MDL for the four soil samples listed above. Chloride concentrations ranged from 4.93 mg/Kg for soil sample W/W-1 @ 6 ft to 258 mg/Kg for soil sample S/W-1 @ 6 ft. A review of the laboratory analytical results indicated benzene, BTEX, TPH, and chloride concentrations were less than the NMOCD regulatory guidelines for all submitted soil samples, with the exception of soil sample S/W-1 @ 6 ft which exceeded regulatory guidelines for chloride concentrations. Table 1 summarizes the Concentrations of BTEX, TPH and Chlorides in Soil. Laboratory analytical reports are provided as Appendix A.

On December 28, 2012, three (3) soil samples (BH-2 @ 8 ft, W/W-2 @ 7 ft, and E/W-2 @ 7 ft) were collected from the excavation. The soil samples were submitted to the laboratory for determination of concentrations of benzene, toluene, ethyl-benzene and xylene (BTEX), total petroleum hydrocarbon (TPH), and chlorides using EPA SW-846 8021B, SW-846 8015M, and E 300, respectively. BTEX and TPH concentrations were less than the appropriate laboratory MDL for the three soil samples listed above. Chloride concentrations ranged from 28.6 mg/Kg for soil sample W/W-2 @ 7 ft to 169 mg/Kg for soil sample E/W-2 @ 7 ft. A review of the laboratory analytical results indicated benzene, BTEX, TPH, and chloride concentrations were less than the NMOCD regulatory guidelines for the submitted soil samples. Table 1 summarizes the Concentrations of BTEX, TPH and Chlorides in Soil. Please reference Figure 2 for soil sample locations. Laboratory analytical reports are provided as Appendix A.

On January 07, 2013, one (1) soil sample (S/W-1A @ 6') was collected from the excavation and submitted to the laboratory for chloride analysis. Laboratory analytical results indicated chloride concentrations of 110 mg/Kg for soil sample S/W-1A @ 6'. A review of laboratory analytical results indicated chloride concentrations less than the NMOCD regulatory guidelines for soil sample (S/W-1A @ 6'). Please reference Figure 2 for soil sample locations. Laboratory analytical reports are provided as Appendix A.

On January 15, 2013, one (1) soil sample (E/W-3 @ 13 ft) was collected from the excavation. The soil sample was submitted to the laboratory for determination of concentrations of benzene, toluene, ethyl-benzene and xylene (BTEX), total petroleum hydrocarbon (TPH), and chlorides using EPA SW-846 8021B, SW-846 8015M, and E 300, respectively. BTEX concentrations were less than the appropriate laboratory MDL. Laboratory analytical results indicated TPH concentrations of 28.0 mg/Kg. Laboratory analytical results indicated chloride concentrations of 286 mg/Kg. A review of the laboratory analytical results indicated BTEX and TPH concentrations were less than the NMOCD regulatory guidelines for the submitted soil samples. A review of the laboratory analytical results indicated BTEX and TPH concentrations were less than the NMOCD regulatory guidelines for the submitted soil samples. A review of the laboratory analytical results indicated chloride concentrations were above the NMOCD regulatory guidelines for the submitted soil samples. Table 1 summarizes the Concentrations of BTEX, TPH and Chlorides in Soil. Laboratory analytical reports are provided as Appendix A.

On January 16, 2013, three (3) soil samples (RP - North @ 5 ft, RP - North @ 7 ft, and RP - North @ 10 ft) were collected from the excavation. The soil samples were submitted to the laboratory for determination of concentrations of benzene, toluene, ethyl-benzene and xylene (BTEX), total petroleum hydrocarbon (TPH), and chlorides using EPA SW-846 8021B, SW-846 8015M, and E 300, respectively. BTEX and TPH concentrations were less than the appropriate laboratory MDL for the submitted soil samples. Chloride concentrations ranged from 269 mg/Kg for soil sample RP - North @ 10 ft to 488 mg/Kg for soil sample RP - North @ 7 ft. A review of the laboratory analytical results indicated BTEX and TPH concentrations were less than the NMOCD regulatory guidelines for the submitted soil samples. Table 1 summarizes the Concentrations of BTEX, TPH and Chlorides in Soil. Laboratory analytical reports are provided as Appendix A.

In addition, six (6) test trench soil samples (TT-1 @ 1', TT-1 @ 2', TT-2 @ 1', TT-3 @ 1', TT-4 @ 1', and TT-5 @ 2') were collected from the area north of the excavation and submitted to the laboratory for chloride analysis to determine future delineation to the north of the release point. Laboratory analytical results indicated chloride concentrations ranged from 38.2 mg/Kg for soil sample TT-3 @ 1' to 2040 mg/Kg for soil sample TT-1 @ 2'. A review of laboratory analytical results indicated chloride less than the NMOCD regulatory guidelines for soil samples (TT-1 @ 1' and TT-3 @ 1'). Please reference Figure 2 for soil sample locations. Laboratory analytical reports are provided as Appendix A.

On January 23, 2013, SUGS and NOVA representatives met with an NMOCD Hobbs District Office representative to present the results of the soil sampling event and discuss a possible leak source from the north where it appeared a damaged water leg from a tank battery had been disposing of separated water toward the release point of the six (6) inch lateral line owned by SUGS. It was brought to the attention of the NMOCD Hobbs District Office representative the

release areas may have comingled and chloride concentrations below 250 mg/Kg may not be obtained, as the magnitude of the release of produced water from the area to the north of the six (6) Inch Lateral Line is unknown. The NMOCD representative indicated, based on field chloride tests, further delineation on RP – South and RP – North was needed until further delineation results determined otherwise.

On January 24, 2013, three (3) soil samples (BH-A @ 7', E/W-A @ 6', and W/W-1 @ 6') were collected from the excavation and submitted to the laboratory for chloride analysis. Laboratory analytical results indicated chloride concentrations ranged from 4.84 mg/Kg for soil sample W/W-1 @ 6' to 12.7 mg/Kg for soil sample BH-A @ 7'. A review of laboratory analytical results indicated chloride concentrations less than the NMOCD regulatory guidelines for the submitted soil samples. Please reference Figure 2 for soil sample locations. Laboratory analytical reports are provided as Appendix A.

In addition, on January 24, 2013, one (1) side wall soil sample (E/W-4 @ 9') was collected from the RP-North trench. The soil sample was submitted to the laboratory for determination of concentrations of benzene, toluene, ethyl-benzene and xylene (BTEX), total petroleum hydrocarbon (TPH), and chlorides using EPA SW-846 8021B, SW-846 8015M, and E 300, respectively. Laboratory analytical results indicated benzene and toluene concentrations were less than the appropriate laboratory MDL. Laboratory analytical results indicated ethyl-benzene concentrations of 0.00693 mg/Kg. Laboratory analytical results indicated TPH concentrations of 110.6 mg/Kg. Laboratory analytical results indicated chloride concentrations of 112 mg/Kg.

On January 25, 2013, two (2) soil samples (RP-South @ 26' and WT-1 @ 13') were collected from the excavation. The soil samples were submitted to the laboratory for determination of concentrations of benzene, toluene, ethyl-benzene and xylene (BTEX), total petroleum hydrocarbon (TPH), and chlorides using EPA SW-846 8021B, SW-846 8015M, and E 300, respectively. BTEX and TPH concentrations were less than the appropriate laboratory MDL for the submitted soil samples. Chloride concentrations ranged from 159 mg/Kg for soil sample WT-1 @ 13' to 278 mg/Kg for soil sample RP-South @ 26'. A review of the laboratory analytical results indicated BTEX and TPH concentrations were less than the NMOCD regulatory guidelines for the submitted samples. A review of the laboratory analytical results indicated chloride concentrations were less than the NMOCD regulatory guidelines for soil sample WT-1 @ 13'. A review of the laboratory analytical results indicated chloride concentrations of the laboratory analytical results indicated chloride concentrations were less than the NMOCD regulatory guidelines for soil sample WT-1 @ 13'. A review of the laboratory analytical results indicated chloride concentrations of BTEX, TPH and Chlorides in Soil. Laboratory analytical reports are provided as Appendix A.

On January 28, 2013, two (2) soil samples (WT - 1 @ 13' and NT-2 @ 13') were collected from the excavation. The soil samples were submitted to the laboratory for determination of concentrations of benzene, toluene, ethyl-benzene and xylene (BTEX), total petroleum hydrocarbon (TPH), and chlorides using EPA SW-846 8021B, SW-846 8015M, and E 300, respectively. BTEX and TPH concentrations were less than the appropriate laboratory MDL for the submitted soil samples. Chloride concentrations ranged from 58.9 mg/Kg for soil sample NT-2 @ 13' to 69.5 mg/Kg for soil sample WT-1 @ 13'. A review of the laboratory analytical results indicated BTEX, TPH, and chloride concentrations were less than the NMOCD

regulatory guidelines for the submitted soil samples. Table 1 summarizes the Concentrations of BTEX, TPH and Chlorides in Soil. Laboratory analytical reports are provided as Appendix A.

On January 29, 2013, one (1) soil sample (ET - 1 @ 13') was collected from the excavation. The soil sample was submitted to the laboratory for determination of concentrations of benzene, toluene, ethyl-benzene and xylene (BTEX), total petroleum hydrocarbon (TPH), and chlorides using EPA SW-846 8021B, SW-846 8015M, and E 300, respectively. BTEX and TPH concentrations were less than the appropriate laboratory MDL for the submitted soil samples. Laboratory analytical results indicated chloride concentrations of 282 mg/Kg. A review of the laboratory analytical results indicated BTEX and TPH were less than the NMOCD regulatory guidelines for the submitted soil samples. A review of the laboratory analytical results indicated BTEX and TPH were less than the submitted soil samples. Table 1 summarizes the Concentrations of BTEX, TPH and Chlorides in Soil. Laboratory analytical reports are provided as Appendix A.

On February 4, 2013, SUGS and NOVA representatives met with an NMOCD Hobbs District Office representative to present the results of the soil sampling event, and request permission to backfill the excavation. The NMOCD representative verbally granted SUGS approval for site closure based on a review of the results from chloride field tests and laboratory analytical results.

Chloride field test were used to determine chloride concentrations throughout the excavation process. The field test procedure uses a 1:4 ratio of homogenized soil from the sample area mixed with deionized/distilled water. Samples are filtered to prevent solids from blocking the flow of water into the chloride titration test strips. Chloride concentrations are determined using Hach brand Quantab Titrators for Chlorides (Low Range). Chloride field tests give an approximation of the chloride levels found in soil samples and are used to determine delineation during excavation activities.

On February 12, 2013, one (1) soil sample (W/W - 3 @ 13') was collected from the excavation. The soil samples were submitted to the laboratory for determination of concentrations of benzene, toluene, ethyl-benzene and xylene (BTEX), total petroleum hydrocarbon (TPH), and chlorides using EPA SW-846 8021B, SW-846 8015M, and E 300, respectively. BTEX concentrations were less than the appropriate laboratory MDL for the submitted soil samples. Analytical results indicated TPH concentrations of 64.4 mg/Kg. Analytical results indicated chloride concentrations of 169 mg/Kg for soil sample W/W-3 @ 13'. A review of the laboratory analytical results indicated BTEX, TPH, and chloride concentrations were less than the submitted soil sample. Table 1 summarizes the Concentrations of BTEX, TPH and Chlorides in Soil. Laboratory analytical reports are provided as Appendix A.

On February 13, 2013, one (1) soil sample (ET-1A @ 13') was collected from the excavation. The soil samples were submitted to the laboratory for determination of concentrations of chlorides using method E 300. Analytical results indicated chloride concentrations of 51.1 mg/Kg for soil sample ET-1A @ 13'. A review of the laboratory analytical results indicated chloride concentrations were less than the NMOCD regulatory guidelines for the submitted soil sample. Table 1 summarizes the Concentrations of BTEX, TPH and Chlorides in Soil. Laboratory analytical reports are provided as Appendix A.

Between the dates of February 7, 2013 and February 12, 2013 a total of approximately 3,136 cubic yards of soil was transported to Sundance Services, Inc. (NMOCD Permit # 01-0003) for disposal. Between the dates of February 12, 2013 and February 15, 2013 the excavation was backfilled with locally obtained non-impacted soil. On completion of backfilling activities the impacted area was contoured to fit the surrounding topography. Manifests documenting soil disposal are provided as Appendix C.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil Samples were delivered to Permian Basin Environmental Lab, LP., of Midland, Texas for BTEX and/or TPH and/or chloride analyses using the methods described below. Soil samples were analyzed for BTEX and/or TPH and/or chloride concentrations within fourteen (14) days following the sampling event.

The soil samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8021B, 5030
- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO
- Chloride concentration in accordance with Method E 300.

4.2 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-ofcustody (COC) form. These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

5.0 SITE CLOSURE REQUEST

Based on the analytical results of confirmation soil samples, NOVA recommends SUGS provide the NMOCD a copy of this Remediation Summary and Site Closure Request and request the NMOCD grant closure to the Chicken Farm 6 Inch Lateral Release Site.

6.0 LIMITATIONS

NOVA Safety and Environmental 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.

NOVA Safety and Environmental has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA Safety and Environmental 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. NOVA Safety and Environmental has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA Safety and Environmental 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 Southern Union Gas Services. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of NOVA Safety and Environmental and/or Southern Union Gas Services.

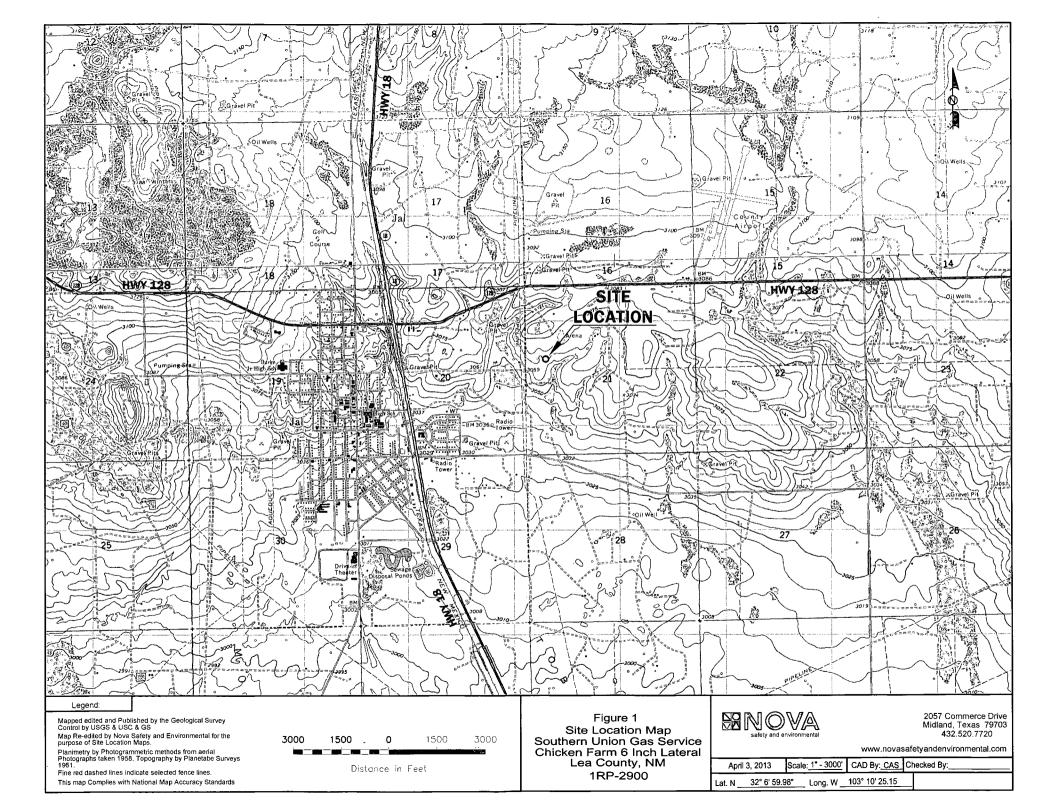
7.0 **DISTRIBUTION:**

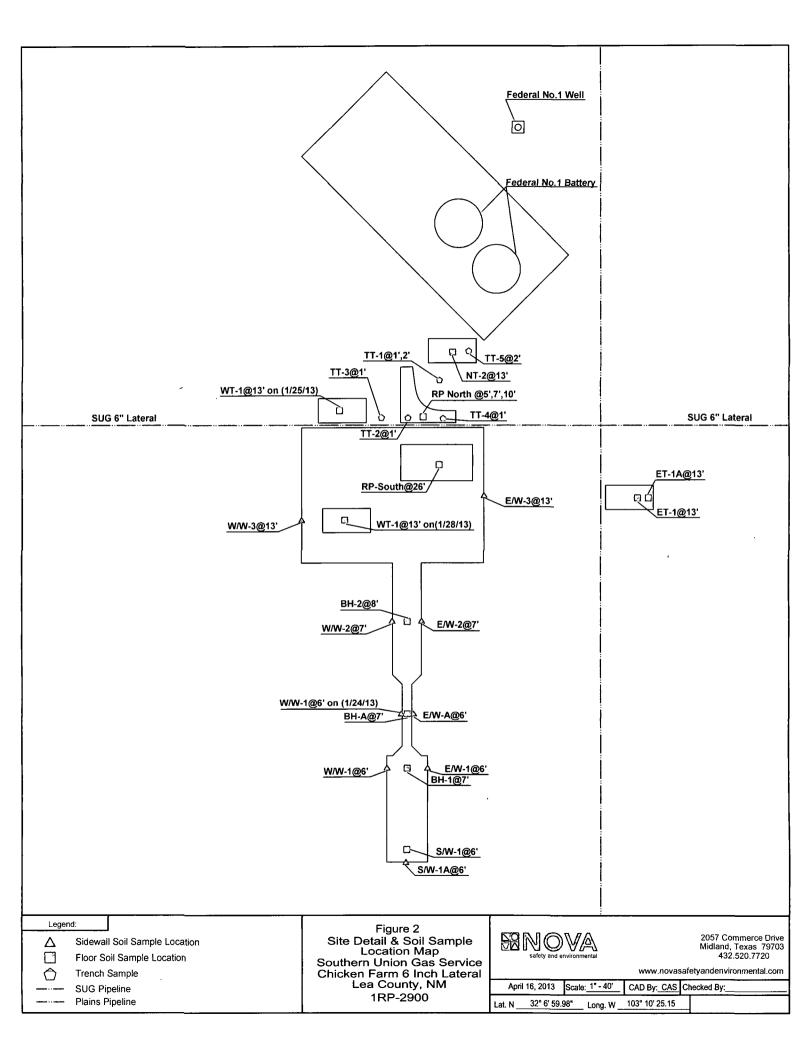
- Copy 1: Geoffrey Leking New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (District 1) 1625 French Drive Hobbs, New Mexico 88240
- Copy 2: Jacob Krautsch Southern Union Gas Services 301 Commerce St., Suite 700 Fort Worth, Texas 76102

Copy 3:

Nova Safety & Environmental 2057 Commerce Street Midland, Texas 79703

Figures





Tables

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TABLE 1

CONCENTRATIONS OF BTEX, TPH AND CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES CHICKEN FARM 6 INCH LATERAL RELEASE SITE LEA COUNTY, NEW MEXICO IRP-1-13-2900

All concentrations are reported in mg/Kg

					SW 846-8021b	a – – – – – – – – – – – – – – – – – – –			METHOD: 9	SW 8015M		E 300.1
SAMPLE LOCATION	SAMPLE			ETHYL-		0 -	TOTAL	TPH	TPH	ТРН	TOTAL	
SAMI LE LOCATION	DATE .	BENZENE	TOLUENE		m, p - XYLENES	1 ·	BTEX	GRO	DRO	ORO	TPH	CHLORIDE
					AILENES			$C_{6}-C_{12}$	$C_{12} - C_{28}$	$C_{28}-C_{35}$	C ₆ -C ₃₅	
S/W-1 @ 6 ft	12/13/12	< 0.00100	<0.00200-	< 0.00100	< 0.00200	< 0.00100	< 0.00200	<26.3	<26.3	<26.3	<26.3	258
E/W-1 @ 6 ft	12/13/12	< 0.00100	< 0.00200	< 0.00100	< 0.00200	< 0.00100	< 0.00200	<25.5	<25.5	<25.5	<25.5	35.9
W/W-1 @ 6 ft	12/13/12	< 0.00100	< 0.00200	< 0.00100	<0.00200	< 0.00100	< 0.00200	<25.3	<25.3	<25.3	<25.3	4.93
BH-1 @ 7 ft	12/13/12	< 0.00100	<0.00200	< 0.00100	< 0.00200	< 0.00100	< 0.00200	<25.8	<25.8	<25.8	<25.8	5.65
		-					~					
BH-2 @ 8ft	12/28/12	< 0.00100	< 0.00200	< 0.00100	< 0.00200	< 0.00100	< 0.00200	<25.3	<25.3	<25.3	<25.3	-89.2
W/W-2 @ 7ft	12/28/12	<0.00100	< 0.00200	< 0.00100	< 0.00200	< 0.00100	< 0.00200	<25.3	<25.3	<25.3	<25.3	28.6
<u> </u>	12/28/12	< 0.00100	<0.00200	< 0.00100	< 0.00200	< 0.00100	< 0.00200	<25.5	<25.5	<25.5	<25.5	169
S/W-1A @ 6'	01/07/13	-	-	-	-	-	-	-	<u> </u>	-	-	110
										·	· .	
E/W-3 @ 13ft	01/15/13	< 0.00100	< 0.00200	< 0.00100	< 0.00200	< 0.00100	< 0.00200	<27.8	28.0	<27.8	28.0	286
RP-North @ 5ft	01/16/13	<0.00100	< 0.00200	< 0.00100	< 0.00200	< 0.00100	<0.00200	<28.7	<28.7	<28.7	<28.7	386
RP-North @ 7ft	01/16/13	< 0.00100	< 0.00200	< 0.00100	< 0.00200	< 0.00100	< 0.00200	<26.6	<26.6	<26.6	<26.6	488
RP-North @ 10ft	01/16/13	< 0.00100	<0.00200	< 0.00100	< 0.00200	< 0.00100	< 0.00200	<26.3	<26.3	<26.3	<26.3	269
TT-1 @ 1'	01/16/13	-		-	-	-					-	74.5
<u> </u>	01/16/13	-	<u> </u>			- ·		-		-		2040
TT-2 @ 1'	01/16/13	-	<u> </u>	-	-	-	-			-	-	260
TT-3 @ 1'	01/16/13	-			-	-			<u> </u>		-	38.2
TT-4 @ 1'	01/16/13	-			-		-			-	-	1010
<u>TT-5 @ 2'</u>	01/16/13				-	-				<u> </u>		264
BH-A @ 7'	01/24/13	-	-		-				-			12.7
E/W-A @ 6'	01/24/13		<u> </u>		· - "	-				•		12.3
W/W-1 @ 6'	01/24/13	-	·			-	-	•		-		4.84
E/W-4 @ 9'	01/24/13	< 0.00100	<0.00200	0.00693	0.0131	0.00502	0.02505	<26.3	64.3	46.3	110.6	112
· · · · · · · · · · · · · · · · · · ·												
RP-South @ 26'	01/25/13	< 0.00100	< 0.00200	< 0.00100	< 0.00200	< 0.00100	< 0.00200	<27.2	<27.2	<27.2	<27.2	278
WT-1 @ 13'	01/25/13	<0.00100	< 0.00200	< 0.00100	< 0.00200	< 0.00100	< 0.00200	<26.9	<26.9	<26.9	<26.9	159
											<u> </u>	
WT-1 @ 13'	01/28/13	< 0.00100	< 0.00200	< 0.00100	< 0.00200	< 0.00100	< 0.00200	<25.8	<25.8	<25.8	<25.8	69.5
NT-2 @ 13'	01/28/13	<0.00100	< 0.00200	< 0.00100	<0.00200	< 0.00100	< 0.00200	<26.6	<26.6	<26.6	<26.6	58.9
				+								

TABLE 1

CONCENTRATIONS OF BTEX, TPH AND CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES CHICKEN FARM 6 INCH LATERAL RELEASE SITE LEA COUNTY, NEW MEXICO 1RP-1-13-2900

All concentrations are reported in mg/Kg

			METHODS: SW 846-8021b						METHOD: SW 8015M				
SAMPLE LOCATION	SAMPLE DATE	BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENE	TOTAL BTEX	TPH GRO C ₆ -C ₁₂	TPH DRO C ₁₂ -C ₂₈	TPH ORO C ₂₈ -C ₃₅	TOTAL TPH C ₆ -C ₃₅	CHLORIDE	
ET-1 @ 13'	01/29/13	< 0.00100	< 0.00200	<0.00100	<0.00200	<0.00100	< 0.00200	<32.9	<32.9	<32.9	<32.9	282	
W/W-3 @ 13'	02/12/13	<0.00100	<0.00200	<0.00100	<0.00200	< 0.00100	<0.00200	<26.3	64.4	<26.3	64.4	169	
ET-1A @ 13'	02/13/13	-	-	-	-		<u> </u>	-		-		51.1	

Appendix A Analytical Reports

PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



Analytical Report

Prepared for:

Jonathan Repman Nova Safety & Environment 2057 Commerce Midland, TX 79703

Project: SUG Chicken Farm Project Number: [none] Location: Lea County, New Mexico

Lab Order Number: 2L14007



NELAP/TCEQ # T104704156-12-1

Report Date: 12/17/12

Nova Safety & Environment	Project: SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number: [none]	
Midland TX, 79703	Project Manager: Jonathan Repman	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S/W-1 @ 6 ft	2L14007-01	Soil	12/13/12 09:55	12-14-2012 13:20
E/W-1 @ 6 ft	2L14007-02	Soil	12/13/12 10:00	12-14-2012 13:20
W/W-1 @ 6 ft	2L14007-03	Soil	12/13/12 10:05	12-14-2012 13:20
BH-1 @ 7 ft	2L14007-04	Soil	12/13/12 10:10	12-14-2012 13:20

10014 SCR 1213 Midland, TX 79706 432-686-7235

Nova Salety & Environment 2057 Commerce Midland TX, 79703		Proj Project Num Project Mana			n			Fax: (432) 5	520-7701
					н 1				
		S/V	V-1 @ 6 ft						
		2L14	007-01 (Soil						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	P	ermian Basi	n Environm	ental Lal	b				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EL21703	12/14/12	12/14/12	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EL21703	12/14/12	12/14/12	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EL21703	12/14/12	12/14/12	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EL21703	12/14/12	12/14/12	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EL21703	12/14/12	12/14/12	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		106 %	75-12	5	EL21703	12/14/12	12/14/12	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	75-12	5	EL21703	12/14/12	12/14/12	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Metho	ds		÷					
Chloride	258	1.05	mg/kg dry	ı.	EL21705	12/17/12	12/17/12	EPA 300.0	
% Moisture	5.0	0.1	%	1	EL21701	12/14/12	12/17/12	% calculation	
<u>Total Petroleum Hydrocarbons C6-C</u>	C35 by EPA Method 8	015M							
C6-C12	ND	26.3	mg/kg dry	1	EL21702	12/14/12	12/14/12	8015M	
>C12-C28	ND	26.3	mg/kg dry	1	EL21702	12/14/12	12/14/12	8015M	
>C28-C35	ND	26.3	mg/kg dry	1	EL21702	12/14/12	12/14/12	8015M	
Surrogate: 1-Chlorooctane		79.4 %	70-13	0	EL21702	12/14/12	12/14/12	8015M	
Surrogate: o-Terphenyl		104 %	70-13	0	EL21702	12/14/12	12/14/12	8015M	
Total Hydrocarbon nC6-nC35	ND	25.0	mg/kg dry	1	[CALC]	12/14/12	12/14/12	8015M	

Permian Basin Environmental Lab

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Nova Satety & Environment 2057 Commerce Midland TX, 79703			Proj Project Numl Project Mana			n			Fax: (432) 52	20-7701
		• •		V-1 @ 6 ft						
			2L14	007-02 (Soi	l) ·					
Analyte		Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
· · ·			Permian Basi	n Environn	nental La	b				
Organics by GC										
Benzene		ND	0.00100	mg/kg dry	1	EL21703	12/14/12	12/14/12	EPA 8021B	
Toluene	·	ND	0.00200	mg/kg dry	1	EL21703	12/14/12	12/14/12	EPA 8021B	
Ethylbenzene		ND	0.00100	mg/kg dry	1	EL21703	12/14/12	12/14/12	EPA 8021B	
Xylene (p/m)		ND	. 0.00200	mg/kg dry	1	EL21703	12/14/12	12/14/12	EPA 8021B	
Xylene (o)		ND	0.00100	mg/kg dry	1	EL21703	12/14/12	12/14/12	EPA 8021B	
Surrogate: 1,4-Difluorobenzene			106 %	75-1	25	EL21703	12/14/12	12/14/12	EPA 8021B	
Surrogate: 4-Bromofluorobenzene			118 %	75-1	25	EL21703	12/14/12	12/14/12	EPA 8021B ⁻	
<u>General Chemistry Parame</u>	eters by EPA / St	andard Meth	ods							
Chloride		35.9	1.02	mg/kg dry	1	EL21705	12/17/12	12/17/12	EPA 300.0	
% Moisture		2.0	0.1	%	1	EL21701	12/14/12	12/17/12	% calculation	
Total Petroleum Hydrocar	bons C6-C35 by]	EPA Method	8015M							
C6-C12		ND	25.5	mg/kg dry	1	EL21702	12/14/12	12/14/12	8015M	
>C12-C28		ND	25.5	mg/kg dry	1	EL21702	12/14/12	12/14/12	8015M	
>C28-C35		ND	25.5	mg/kg dry	1	EL21702	12/14/12	12/14/12	8015M	
Surrogate: 1-Chlorooctane			89.2 %	70-1	30	EL21702	12/14/12	12/14/12	8015M	
Surrogate: o-Terphenyl			118 %	70-1	30	EL21702	12/14/12	12/14/12	8015M	
Total Hydrocarbon nC6-nC35		ND	25.0	mg/kg dry	1	[CALC]	12/14/12	12/14/12	8015M	

Permian Basin Environmental Lab

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Nova Safety & Environment		Proj	ect: SUG Ch	icken Farr	n			Fax: (432) 52	20-7701
2057 Commerce		Project Num	ber: [none]						
Midland TX, 79703		Project Mana	ger: Jonathan	Repman	-				
		W/V	W-1 @ 6 ft						
		2L14	007-03 (Soil)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	P	ermian Basi	n Environm	ental La	b				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EL21703	12/14/12	12/14/12	EPA 8021B	
foluene '	ND	0.00200	mg/kg dry	1	EL21703	12/14/12	12/14/12	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	I	EL21703	12/14/12	12/14/12	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EL21703	12/14/12	12/14/12	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EL21703	12/14/12	12/14/12	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		105 %	75-12	5	EL21703	12/14/12	12/14/12	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	75-12	5	EL21703	12/14/12	12/14/12	EPA 8021B	
<u>General Chemistry Parameters by EPA</u>	/ Standard Metho	ls					•		
Chloride	4.93	1.01	mg/kg dry	1	EL21705	12/17/12	12/17/12	EPA 300.0	
% Moisture	1.0	- 0.1	%	1	EL21701	12/14/12	12/17/12	% calculation	
Fotal Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M							
C6-C12	ND	25.3	mg/kg dry	I	EL21702	12/14/12	12/14/12	8015M	
>C12-C28	ND	25.3	mg/kg dry	I	EL21702	12/14/12	12/14/12	8015M	
>C28-C35	ND	25.3	mg/kg dry	1	EL21702	12/14/12	12/14/12	8015M	
Surrogate: 1-Chlorooctane		77.9 %	70-13	0	EL21702	12/14/12	12/14/12	8015M	
Surrogate: o-Terphenyl		107 %	70-13	0	EL21702	12/14/12	12/14/12	8015M	
Fotal Hydrocarbon nC6-nC35	ND	25.0	mg/kg dry	1	[CALC]	12/14/12	12/14/12	8015M	

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Nova Safety & Environment		Proj	ect: SUG Ch	icken Farr	n			Fax: (432) 52	20-7701
2057 Commerce		Project Num	ber: [none]						
Midland TX, 79703		Project Mana	ger: Jonathar	Repman					
		BI	I-1 @ 7 ft						
		2L14	007-04 (Soil)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pe	rmian Basi	n Environm	ental La	b				
Organics by GC							•		
Benzene	ND	0.00100	mg/kg dry	1	EL21703	12/14/12	12/14/12	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EL21703	12/14/12	12/14/12	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EL21703	12/14/12	12/14/12	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EL21703	12/14/12	12/14/12	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EL21703	12/14/12	12/14/12	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		107 %	75-12	25	EL21703	12/14/12	12/14/12	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	75-12	25	EL21703	12/14/12	12/14/12	EPA 8021B	
General Chemistry Parameters by El	PA / Standard Method	ls							
Chloride	5.65	1.03	mg/kg dry	1	EL21705	12/17/12	12/17/12	EPA 300.0	
% Moisture	3.0	0.1	%	. 1	EL21701	12/14/12	12/17/12	% calculation	•
<u>Total Petroleum Hydrocarbons C6-C</u>	35 by EPA Method 80)15M							
C6-C12	ND	25.8	mg/kg dry	1 ·	EL21702	12/14/12	12/14/12	8015M	
>C12-C28	ND	25,8	mg/kg dry	1	EL21702	12/14/12	12/14/12	8015M	
>C28-C35	ND	25.8	mg/kg dry	1	EL21702	12/14/12	12/14/12	8015M	
Surrogate: 1-Chlorooctane		77.0 %	70-13	30	EL21702	12/14/12	12/14/12	8015M	
Surrogate: o-Terphenyl		103 %	70-13	30	EL21702	12/14/12	12/14/12	8015M	
Total Hydrocarbon nC6-nC35	ND	25.0	mg/kg dry	1	[CALC]	12/14/12	12/14/12	8015M	

Permian Basin Environmental Lab

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Nova Safety & Environment	Project: S	UG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number: [none]	
Midland TX, 79703	Project Manager: J	onathan Repman	

Organics by GC - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL21703 - General Preparation (GC)				• .						
				Dropped &		12/14/12				
Blank (EL21703-BLK1)	ND	0.00100	ma dia wat	Prepared &	2 Analyzeu.	12/14/12	· · · ·		· · · ·	
Benzene	ND	0.00100	mg/kg wet							
Toluene Ethylbenzene	ND	0.00200	"	· .						
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100								
Surrogate: 1,4-Difluorobenzene	63.5		ug/kg	60.0		. 106	75-125	··· ···		
Surrogate: 1,4-Difuorobenzene Surrogate: 4-Bromofluorobenzene	76.6		ид/кд . "	60.0		128	75-125			S-09
Surrogate. 4-promojiuorobenzene	70.0			00.0		120	75-125			5-07
LCS (EL21703-BS1)				Prepared &	2 Analyzed	12/14/12				
Benzene	0.0946	0.00100	mg/kg wet	0.100		94.6	80-120			
Toluene	0.0994	0.00200	"	0.100		99.4	80-120			
Ethylbenzene	0.0974	0.00100		0.100		97.4	80-120			
Xylene (p/m)	0,201	0.00200	"	. 0.200		100	80-120			
Xylene (o)	0.0920	0.00100		0.100		92.0	80-120			
Surrogate: 1,4-Difluorohenzene	64.9		ug/kg	60.0		108	75-125			
Surrogate: 4-Bromofluorobenzene	63.2		"	60.0		105	75-125			
LCS Dup (EL21703-BSD1)				Prepared &	k Analyzed:	: 12/14/12				
Benzene	0.0962	0.00100	mg/kg wet	0.100		96.2	80-120	1.67	20	
Toluene	0.102	0.00200	"	0.100		102	80-120	2.72	20	
Ethylbenzene	0.0999	0.00100		0.100		. 99.9	80-120	2.59	20	
Xylene (p/m)	0.207	0.00200	N	0.200		103	80-120	2.90	20	
Xylene (o)	0.0949	0.00100	н	0.100		94.9	80-120	3.03	20	
Surrogate: 1,4-Difluorobenzene	65.4		ug/kg	60.0		109	75-125			
Surrogate: 4-Bromofluorobenzene	65.9		"	60.0		110	75-125			
Matrix Spike (EL21703-MS1)	Sou	1rce: 2L14001	-01	Prepared &	k Analyzed	: 12/14/12				
Benzene	0.0405	0.00100	mg/kg dry	0.102	ND	39.7	80-120			QM-05
Toluene	0.0533	0.00200		0.102	ND	52.3	80-120			QM-05
Ethylbenzene	0.0598	0.00100		0.102	ND	58.6	80-120			QM-05
Xylene (p/m)	0.122	0.00200	в	0.204	ND	59.7	80-120			QM-05
Xylene (o)	0.0596	0.00100		0,102	ND	58.4	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	62.4		ug/kg	60.0		104	75-125			
Surrogate: 4-Bromofluorohenzene	69.1		"	60.0		115	75-125			

Permian Basin Environmental Lab

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Nova Safety & Environment	Project: SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number: [none]	
Midland TX, 79703	Project Manager: Jonathan Repman	

Organics by GC - Quality Control

Permian Basin Environmental Lab

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

Batch EL21703 - General Preparation (GC)

Matrix Spike Dup (EL21703-MSD1)	Sou	rce: 2L14001	-01	Prepared &	Analyzed	12/14/12				
Benzene	0.0351	0.00100	mg/kg dry	0.102	ND	34.4	80-120	14.2	20	QM-05
Toluene	0.0466	0.00200	"	0.102	ND	45.7	80-120	13.5	20	QM-05
Ethylbenzene	0.0534	0.00100	"	0.102	ND	52.3	80-120	11.3	20	QM-05
Xylene (p/m)	0.108	0.00200	"	0.204	ND	53.0	80-120	11.9	2 0	QM-05
Xylene (o)	0.0538	0.00100	"	0.102	ND	52.7	80-120	10.3	20	QM-05
Surrogate: 1,4-Difluorobenzene	62.6		ug/kg	60.0		104	75-125			
Surrogate: 4-Bromofluorobenzene	68.8		"	60.0		115	75-125			

Permian Basin Environmental Lab

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Nova Safety & Environment		Project:	SÚG Chicken F	arm			·	Fax: (432)	520-7701
2057 Commerce		Project Number:	none]						
Midland TX, 79703		Project Manager:	Ionathan Repm	an	1		•		
Genera	al Chemistry Para	meters by EPA	/ Standard	Methods	- Qual	lity Con	trol		
	Per	mian Basin En	vironment	al Lab					_
Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL21701 - *** DEFAULT P	REP ***								
Blank (EL21701-BLK1)			Prepared:	12/14/12 Ana	lyzed: 12	/17/12			
% Moisture	ND	0.1 %							
Duplicate (EL21701-DUP1)	Sour	ce: 2L13001-01	Prepared:	12/14/12 Ana	lyzed: 12	/17/12			
% Moisture	10.0	0.1 %		11.0			9.52	20	
Batch EL21705 - *** DEFAULT PI	REP ***								
Blank (EL21705-BLK1)	· · · ·		Prepared &	z Analyzed: 12	2/17/12				
Chloride	ND	1.00 mg/kg v	vet						
			Prepared &	k Analyzed: 12	2/17/12				
LCS (EL21705-BS1)	10.2	mg/kg V	•	z Analyzed: 12	2/17/12 102	80-120			
LCS (EL21705-BS1)	10.2	mg/kg V	/et 10.0		102	80-120			
LCS (EL21705-BS1)	10.2	mg/kg V mg/kg V	Vet 10.0 Prepared &	• .	102	80-120 80-120	1.14	20	
LCS (EL21705-BS1) Chloride LCS Dup (EL21705-BSD1)	10.1		Vet 10.0 Prepared & Vet 10.0	• .	102 2/17/12 101		1.14	20	
LCS (EL21705-BS1) Chloride LCS Dup (EL21705-BSD1) Chloride	10.1	mg/kg V	/et 10.0 Prepared & /et 10.0 Prepared &	z Analyzed: 12	102 2/17/12 101		0.0899	20	
LCS (EL21705-BS1) Chloride LCS Dup (EL21705-BSD1) Chloride Duplicate (EL21705-DUP1)	10.1 Sour 258	mg/kg V ce: 2L14007-01	Vet 10.0 Prepared & Vet 10.0 Prepared &	z Analyzed: 12 z Analyzed: 12	102 2/17/12 101 2/17/12				

Permian Basin Environmental Lab

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Nova Safety & Environment	Project:	SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number:	[none]	
Midland TX, 79703	Project Manager:	Jonathan Repman	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

· · · · · · · · · · · · · · · · · · ·	Per	rmian Ba	sin Envi	ronment	al Lab					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EL21702 ~ 8015M									_	
Blank (EL21702-BLK1)				Prepared &	Analyzed:	12/14/12				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	н							
>C28-C35	ND	25.0	*							
Surrogate: 1-Chlorooctane	67.1		"	100	×	67.1	70-130	<u> </u>	· · · ·	S-GC
Surrogate: o-Terphenyl	43.5		"	50.0		87. <i>1</i>	70-130			
LCS (EL21702-BS1)				Prepared &	Analyzed:	12/14/12				
C6-C12 ·	842	25.0	mg/kg wet	1000		84.2	75-125			
>C12-C28	824	25.0		1000		82.4	75-125			
>C28-C35	ND	25.0	"	0.00			75-125			
Surrogate: 1-Chlorooctane	70.8		"	100		70.8	70-130			
Surrogate: o-Terphenyl	40.2		"	50.0		80.3	70-130			
LCS Dup (EL21702-BSD1)				Prepared &	2 Analyzed	12/14/12				
C6-C12	853	25.0	mg/kg wet	1000		85.3	75-125	1.38	20	
>C12-C28	823	25.0	"	1000		82.3	75-125	0.128	20	
>C28-C35	ND	25.0		0.00		•	75-125		20	
Surrogate: 1-Chlorooctane	72.0		"	100		72.0	70-130		•	
Surrogate: o-Terphenyl	39.9		"	50.0		79.8	70-130			
Matrix Spike (EL21702-MS1)	Sou	rce: 2L14001	-01	Prepared &	z Analyzed:	12/14/12		_		
C6-C12	874	25.5	mg/kg dry	1020	ND	85.7 ·	75-125			
>C12-C28	844	25.5	н	1020	ND	82.7	75-125			
>C28-C35	ND	25.5	n .	0.00	ND		75-125			
Surrogate: 1-Chlorooctane	61.4		"	51.0		120	70-130			
Surrogate: o-Terphenyl	34.9		"	25.5		137	70-130			S-GC
Matrix Spike Dup (EL21702-MSD1)	Sou	rce: 2L14001	-01	Prepared &	z Analyzed	: 12/14/12				
C6-C12	853	25.5	mg/kg dry	1020	ND	83.6	75-125	2.50	20	
>C12-C28	884	25.5	н	1020	ND	86.6	75-125	4.62	20	
>C28-C35	ND	25.5	"	0.00	ND		75-125		20	
Surrogate: 1-Chlorooctane	83.5		"	102		81.8	70-130	_		
Surrogate: o-Terphenyl	48.2		"	51.0		94.4	70-130			

Permian Basin Environmental Lab

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10014 SCR 1213 Midland, TX 79706 432-686-7235

Nova Safety & Environment	Project:	SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number:	[none]	
Midland TX, 79703	Project Manager:	Jonathan Repman	

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

S-09 Surrogate recovery limits have been exceeded.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable:

DET Analyte DETECTED

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By:

12/17/2012

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

Bano

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab

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Date:

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· · ·	roject Manager:	Jonathan Repman	<u>.</u>					.*		· · · ·		<u></u>	· ·		· · · ·		•			•	:		1			an	<u> </u>		
C	company Name	Nova Environmental						· .	. <u></u>	<u>.</u>							Proj	ect#					·	<u></u>	<u> </u>	<u> </u>			4
С	company Address:	2057 Commerce Dr.	· _ · ·				· · · -				<u> </u>	· · · ·	<u> </u>			Pr	ojeci	Loc		<u>.</u>		Lea	a, Co	., Ne	w Me	exico		<u></u>	
C	;ity/State/Zip:	Midland/TX/79703					· .						·				: • •	PO #	:							<u> </u>	· · ·	· · ·	
Т	elephone No:	(432)5207720		· '. ·		Fax No		i					· · ·		Re	port i	Form	at:		Star	ndaro	d.	Ē] TR'	RP_	- 		DE	s
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# (lab use only)			Beginning Depth	Ending Depth	Sampled	Time Sampled	Teld Filtered	of Containers					ő	(Specify)	DW=Drinking Water SL=Studge GW = Groundwater S=Soit/Solid		418.1 (8015M) 8 TV 4005 TV 400	Cations (Ca, Mg, Na, K)	Anions (CI, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	S	Semivolatiles BTEX 6021B 5030 or BTEX 8260		N	Chlorides E 300		RUSH TAT (Pre-Schedule) 2	
AB #	FIE		3egin	Endin	Date	Time	Field Fi	Total #. of (8		H ₂ So,	NaOH	Na ₂ S ₂ None	Other	DW=Dri GW = G	NP=Nor		Cations	Anions	SAR / E	Metals:	Volatiles	semivolatiles BTEX 8021B	l Da	N.O.R.M.	Chlori		RUSH	
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PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



Analytical Report

Prepared for:

Jonathan Repman Nova Safety & Environment 2057 Commerce Midland, TX 79703

Project: SUG Chicken Farm Project Number: [none] Location: Lea Co. New Mexico

Lab Order Number: 2L31003



NELAP/TCEQ # T104704156-12-1

Report Date: 01/03/13

Nova Safety & Environment	Project: SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number: [none]	
Midland TX, 79703	Project Manager: Jonathan Repman	
	ANALYTICAL REPORT FOR SAMPLES	

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-2 @ 8 ft	2L31003-01	Soil	12/28/12 11:05	12-28-2012 16:25
W/W-2 @ 7 ft	2L31003-02	Soil	12/28/12 11:10	12-28-2012 16:25
· E/W-2 @ 7 ft	2L31003-03	Soil	12/28/12 11:15	12-28-2012 16:25

Nova Safety & Environment		Proi	ect: SUG C	hicken Farr	n			Fax: (432) 52	20-7701
2057 Commerce		Project Num							
Midland TX, 79703		Project Mana		n Repman					
		BF	I-2 @ 8 ft						
		2L31	003-01 (Soi	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Р	ermian Basi	n Environn	nental Lai	b				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EA30305	01/03/13	01/03/13	EPA 8021B	
Foluene	ND	0.00200	mg/kg dry	1	EA30305	01/03/13	01/03/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EA30305	01/03/13	01/03/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EA30305	01/03/13	01/03/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry ,	1	EA30305	01/03/13	01/03/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.2 %	75-1	25	EA30305	01/03/13	01/03/13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		149 %	75-1	25	EA30305	01/03/13	01/03/13	EPA 8021B	S- G
<u>General Chemistry Parameters by E</u>	PA / Standard Metho	ds							
Chloride	89.2	1.01	mg/kg dry	1	EA30303	01/03/13	01/03/13	EPA 300.0	
% Moisture	1.0	0.1	%	1	EA30301	01/02/13	01/03/13	% calculation	
<u> Total Petroleum Hydrocarbons C6-C</u>	35 by EPA Method 8	015M							
C6-C12	ND	25.3	mg/kg dry	1	EA30304	01/02/13	01/02/13	8015M	
>C12-C28	ND	25.3	mg/kg dry	1	EA30304	01/02/13	01/02/13	8015M	
>C28-C35	ND	25.3	mg/kg dry	1	EA30304	01/02/13	01/02/13	8015M	
Surrogate: 1-Chlorooctane	·····	82.5 %	70-1	30	EA30304	01/02/13	01/02/13	8015M	

79.9 %

25.0 mg/kg dry

ND

70-130

1

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Surrogate: o-Terphenyl

Total Hydrocarbon nC6-nC35

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EA30304

[CALC]

01/02/13

01/02/13

01/02/13

01/02/13

8015M

8015M

10014 SCR 1213 Midland, TX 79706 432-686-7235

Nova Safety & Environment 2057 Commerce Midland TX, 79703		Project Num	ect: SUG Ch ber: [none] ger: Jonathan		n			Fax: (432) 52	20-7701
			W-2 @ 7 ft						
	·	2L31	003-02 (Soil)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pe	rmian Basi	n Environm	ental La	b				
Organics by GC									
Benzene	. ND	0.00100	mg/kg dry	1	EA30305	01/03/13	01/03/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EA30305	01/03/13	01/03/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg_dry	1	EA30305	01/03/13	01/03/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EA30305	01/03/13	01/03/13	EPA 8021B	
Xylene (o)	· ND	0.00100	mg/kg dry	1	EA30305	01/03/13	01/03/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.8 %	75-12	'5	EA30305	01/03/13	01/03/13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		146 %	75-12	5	EA30305	01/03/13	01/03/13	EPA 8021B	S-GC
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	28.6	1.01	mg/kg dry	1	EA30303	01/03/13	01/03/13	EPA 300.0	
% Moisture	. 1.0	0.1	%	1	EA30301	01/02/13	01/03/13	% calculation	
<u>Total Petroleum Hydrocarbons C6-C</u>	35 by EPA Method 8)15M							
C6-C12	ND	25.3	mg/kg dry	I	EA30304	01/02/13	01/02/13	8015M	
>C12-C28	ND .	25.3	mg/kg dry	1	EA30304	01/02/13	01/02/13	8015M	
>C28-C35	ND	25.3	mg/kg dry	1	EA30304	01/02/13	01/02/13	8015M	
Surrogate: 1-Chlorooctane		94.8 %	70-13	0	EA30304	01/02/13	01/02/13	8015M	
Surrogate: o-Terphenyl		102 %	70-13	0	EA30304	01/02/13	01/02/13	8015M	
Total Hydrocarbon nC6-nC35	ND	25.0	mg/kg dry	1	[CALC]	01/02/13	01/02/13	8015M	

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10014 SCR 1213 Midland, TX 79706 432-686-7235

Page 4 of 11

Nova Safety & Environment	Project: SUG Chicken Farm							Fax: (432) 520-7701			
2057 Commerce	Project Number: [none]										
Midland TX, 79703		Project Mana	. ,	n Renman							
		r rojeet mana	Ber: Ponunu								
		E/V	V-2 @ 7 ft								
		2L31	003-03 (Soi	l)							
		Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
	Pe	rmian Basi	n Environn	nental Lai	h						
• • • • • •											
Organics by GC	ND	0.00100	mg/kg dry	1	EA30305	01/02/12	01/03/13	EPA 8021B			
Benzene	ND	0.00100		1	EA30305	01/03/13					
Toluene	ND	0.00200	mg/kg dry	1	EA30305	01/03/13	01/03/13	EPA 8021B EPA 8021B			
Ethylbenzene	ND	0.00100	mg/kg dry	1	EA30305	01/03/13	01/03/13	EPA 8021B EPA 8021B			
Xylene (p/m)	ND	0.00200	mg/kg dry	1		01/03/13	01/03/13				
Xylene (o)	ND	0.00100		1	EA30305	01/03/13	01/03/13	EPA 8021B			
Surrogate: 1,4-Difluorobenzene		99.6 %			EA30305	01/03/13	01/03/13	EPA 8021B			
Surrogate: 4-Bromofluorobenzene		148 %	75-125		EA30305	01/03/13	01/03/13	EPA 8021B	S-GC		
<u>General Chemistry Parameters by EI</u>	PA / Standard Method	ls									
Chloride	169	1.02	mg/kg dry	1	EA30303	01/03/13	01/03/13	EPA 300.0			
% Moisture	2.0	0.1	%	1	EA30301	01/02/13	01/03/13	% calculation			
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80)15M									
- C6-C12	ND	25.5	mg/kg dry	1	EA30304	01/02/13	01/02/13	8015M			
>C12-C28	ND	25.5	mg/kg dry	1	EA30304	01/02/13	01/02/13	8015M			
>C28-C35	ND	25.5	mg/kg dry	I	EA30304	01/02/13	01/02/13	8015M			
Surrogate: 1-Chlorooctane		94.1 %	70-1	30	EA30304	01/02/13	01/02/13	8015M			
Surrogate: o-Terphenyl		108 %	70-130		EA30304	01/02/13	01/02/13	8015M			
Total Hydrocarbon nC6-nC35	ND	25.0	mg/kg dry	1	[CALC]	01/02/13	01/02/13	8015M			

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Nova Safety & Environment	Project: SUG Chicken Farm	.*	Fax: (432) 520-7701
2057 Commerce	Project Number: [none]		
Midland TX, 79703	Project Manager: Jonathan Repman		

Organics by GC - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA30305 - General Preparation	ı (GC)	_								
Blank (EA30305-BLK1)				Prepared &	: Analyzed:	01/03/13				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200								
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200								
Xylene (0)	ND	0.00100								
Surrogate: 1,4-Difluorobenzene	61.0		ug/kg	60.0		102	75-125			
Surrogate: 4-Bromofluorobenzene	77.0		"	60.0	•	128	75-125			S-G0
LCS (EA30305-BS1)	Prepared & Analyzed: 01/03/13									
Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120			
Toluene	0.103	0.00200	**	0.100		103	80-120			
Ethylbenzene	0.0977	0.00100	"	0.100		97.7	80-120			
Xylene (p/m)	0.203	0.00200	н	0.200		101	80-120			
Xylene (0)	0.0918	0.00100	"	0.100		91.8	80-120			
Surrogate: 1,4-Difluorohenzene	58.8		ug/kg	60.0		98.0	75-125			
Surrogate: 4-Bromofluorohenzene	64.3		"	60.0		107	75-125		•	
LCS Dup (EA30305-BSD1)				Prepared &	z Analyzed:	01/03/13				
Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120	0.241	20	
Toluene	0.106	0.00200	"	0.100		106	80-120	2.70	20	
Ethylbenzene	0.100	0.00100	"	0.100		100	80-120	2.79	.20	
Xylene (p/m)	0.209	0.00200	н	0.200		104	80-120	2.89	20	
Xylene (o)	0.0946	0.00100	н	0.100		94.6	80-120	3.00	20	
Surrogate: 1,4-Difluorobenzene	60.6		ug/kg	60.0		101	75-125			
Surrogate: 4-Bromofluorobenzene	66.8		"	60.0		111	75-125			
Matrix Spike (EA30305-MS1)	Source: 2L31003-03			Prepared &	z Analyzed	01/03/13				
Benzene	0.0572	0.00100	mg/kg dry	0.102	ND	56.0	80-120			'QM-0
Toluene	0.0622	0.00200	"	0.102	ND	61.0	80-120			QM-0
Ethylbenzene	0.0673	0.00100		0.102	ND	66.0	80-120			QM-0
Xylene (p/m)	0.140	0.00200	н	0.204	ND	68.5	80-120			QM-0
Xylene (o)	0.0657	0.00100		0.102	ND	64.4	80-120			QM-0
Surrogate: 1,4-Difluorobenzene	60.1		ug/kg	60.0		100	75-125			
Surrogate: 4-Bromofluorobenzene	88.9		"	60.0		148	75-125			S-G

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Nova Safety & Environment	Project:	SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number:	[none]	
Midland TX, 79703	Project Manager:	Jonathan Repman	

Organics by GC - Quality Control

Permian Basin Environmental Lab

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

Batch EA30305 - General Preparation (GC)

Matrix Spike Dup (EA30305-MSD1)	Sou	rce: 2L31003	3-03	Prepared &	Analyzed	01/03/13				
Benzene	0.0552	0.00100	mg/kg dry	0.102	NĎ	54.1	80-120	3.56	20	QM-05
Toluene	0.0660	0.00200	"	0.102	ND	- 64.7	80-120	5.84	20	QM-05
Ethylbenzene	0.0711	0.00100	"	0.102	ND	69.7	80-120	5.48	20	QM-05
Xylene (p/m)	0.144	0.00200	"	0.204	ND	70.5	80-120	2.92	20	QM-05
Xylene (o)	0.0677	0.00100	. "	0.102	ND	66.4	80-120	2.97	20	QM-05
Surrogate: 1,4-Difluorobenzene	62.9		ug/kg	60.0		105	75-125		-	
Surrogate: 4-Bromofluorobenzene	89.7		"	60.0		150	75-125			S-GC

Permian Basin Environmental Lab

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Page 7 of 11

Nova Safety & Environment		F	Project: SU	G Chicken F	arm				Fax: (432)	520-7701
2057 Commerce		Project N	umber: [noi	ne]						
Midland TX, 79703		Project Ma	anager: Jon	athan Repma	in					
Genera	Chemistry Para	meters by	y EPA / S	Standard	Method	ls - Qua	lity Con	trol		
	Per	mian Ba	sin Envii	onmenta	l Lab					
Analyte	Result	Reporting Limit	Units	Spike Leveł	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA30301 - *** DEFAULT PR	EP ***									
Blank (EA30301-BLK1)				Prepared: 0	1/02/13 A	nalyzed: 01	/03/13			
6 Moisture	ND	0.1	%							
Duplicate (EA30301-DUP1)	Sour	ce: 2L31001	-01	Prepared: 0	1/02/13 A	nalyzed: 01	/03/13			
6 Moisture	0.6	0.1	%		0.5			18.2	20	
Batch EA30303 - *** DEFAULT PR	EP ***									
Blank (EA30303-BLK1)				Prepared &	Analyzed:	01/03/13				
Chloride	ND	1.00	mg/kg wet							
LCS (EA30303-BS1)				Prepared &	Analyzed:	01/03/13				
Chloride	10.1		mg/kg Wet	10.0		101	80-120			
			•	Prepared &	Analyzed:	01/03/13				
_CS Dup (EA30303-BSD1)				<u> </u>						
LCS Dup (EA30303-BSD1) Chloride	10.1		mg/kg Wet	10.0		101	80-120	0.0296	20	
		ce: 2L27001		10.0 Prepared &	Analyzed:		80-120	0.0296	20	
Chloride					Analyzed: 59.1		80-120	0.0296 3.48	20	
Chloride Duplicate (EA30303-DUP1)	Sour 61.2		1 -01 mg/kg dry		59.1	01/03/13	80-120			

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Nova Safety & Environment	Project:	SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number:	[none]	
Midland TX, 79703	Project Manager:	Jonathan Repman	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environment

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA30304 - 8015M										
Blank (EA30304-BLK1)				Prepared &	Analyzed:	01/02/13				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	76.6		"	100		76.6	70-130			
Surrogate: o-Terphenyl	40.3		"	50.0		80.5	70-130			
LCS (EA30304-BS1)				Prepared &	2 Analyzed:	01/02/13	. •			
C6-C12	1240	25.0	mg/kg wet	1050		118	75-125		•	
>C12-C28	1250	25.0	"	1050		119	75-125			. •
>C28-C35	ND	25.0	"	0.00			75-125			
Surrogate: 1-Chlorooctane	105		. "	100	· · · · ·	105	70-130			
Surrogate: o-Terphenyl	46.5		"	50.0		92.9	70-130			
LCS Dup (EA30304-BSD1)				Prepared &	2 Analyzed:	01/02/13				
C6-C12	1290	25.0	mg/kg wet	1050		123	75-125	3.73	20	
>C12-C28	1290	25.0		1050		123	75-125	3.54	20	
>C28-C35	ND	25.0	"	0.00			75-125		20	
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	48.4		".	50.0		96.8	70-130			
Matrix Spike (EA30304-MS1)	Sou	rce: 2L31003	8-03	Prepared &	k Analyzed:	01/02/13				
C6-C12	1300	25.5	mg/kg dry	1070	ND	122	75-125			
>C12-C28	1240	-25.5	11	1070	ND	116	75-125			
>C28-C35	ND	25.5	n	0.00	ND		75-125			
Surrogate: 1-Chlorooctane	111		"	102		108	70-130			
Surrogate: o-Terphenyl	43.1		"	51.0		84.6	70-130			
Matrix Spike Dup (EA30304-MSD1)	Sou	rce: 2L31003	3-03	Prepared &	k Analyzed	01/02/13				
C6-C12	1290	25.5	mg/kg dry	1070	ND	120	75-125	1.01	20	
>C12-C28	1310	25.5		1070	ND	122	75-125	5.21	20	
>C28-C35	ND	25.5		0.00	ND		75-125		20	
Surrogate: 1-Chlorooctane	127	· .	"	102		124	70-13Ò			
Surrogate: o-Terphenyl	54.2		"	51.0		106	70-130			

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike

Dup Duplicate

Report Approved By:

Burner

1/3/2013

Brent Barron, Laboratory Director/Technical Director

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Permian Basin Environmental Lab

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10014 SCR 1213 Midland, TX 79706 432-686-7235

Date:

Page 10 of 11

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Comp	any Name Nova Enviro	onmental														Pr	oject	#•									
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City/S	tate/Zip: <u>Midland/TX</u>	79703	<u> </u>					·			<u>.</u>			<u>.</u>		ч.	PO		· .			<u> </u>		<u> </u>		<u></u>	
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(lab use only)						· · · · · · · ·		÷.,			. :			• •		\vdash	<u>.</u>		TCLP:	_	alyze	For:	ΓŤ	<u> </u>	<u> </u>	-	:
Order #: 2	L31003		• • •					ŗ	Pres	ervat	tion & #	of Cont	ainers	E N	Matrix			T	DTAL:	┝┯╍┢	-	1-			· [.		8, 72 h
(in the second sec			epth		2	pa		ainers) r SL=Studge	S=Soil/Solid Specify Other	8015M 801	5 TX 1006	9. rva, rv) 4. Alkalinity)		Metals: As Ag Ba Cd Cr Pb Hg Se		BTEX 8021B/5030 or BTEX 8260			200		(Pre-Schedule) 24, 4
LAB # (lab.us	FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice HNO ₃	HCI	H ₂ SO4	NaOH Na ₂ S ₂ O ₃	None	Other (Specify DW=Drinking Wate	GW = Groundwater	TPH: 418.1	TPH: TX 1005	Anions (CI, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag E	Volatiles Semivolatiles	BTEX 8021B/50	RCI	N.O.R.M. Chlorides E 200			RUSH TAT (Pn
-01	BH-2 @ 8'				12/13/2012	11:05	<u> </u>	1	x						S	×		÷	-			X)	x		⊢.́∔
<u> </u>	W/W-2 @ 7'				12/13/2012	<u>11:10</u>		t t	× .	<u> </u>				<u> </u>	S	×	· · · .	4	-		•	X	$\left - \right $)	-		-+-
-03	E/W-2 @ 7'	<u></u>		<u>-</u> -	12/13/2012	<u>11:15</u>		1	<u>x</u>	╀╌	┤─┤	-	-	+-	S	×		╋	+		-+-	X	┝╌┨		x [┼╉	┍─┼╴
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PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



Analytical Report

Prepared for:

Jonathan Repman Nova Safety & Environment 2057 Commerce Midland, TX 79703

Project: SUG Chicken Farm Project Number: [none] Location: Lea County, New Mexico Lab Order Number: 3A08001



NELAP/TCEQ # T104704156-12-1

Report Date: 01/10/13

Nova Safety & Environment	Project:	SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number:	[none]	
Midland TX, 79703	Project Manager:	Jonathan Repman	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S/W-1A @ 6'	3A08001-01	Soil	01/07/13 00:00	01-08-2013 10:25

Nova Safety & Environment	Project:	SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number:	[none]	
Midland TX, 79703	Project Manager:	Jonathan Repman	

S/W-1A @ 6'

3A08001-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
Permian Basin Environmental Lab General Chemistry Parameters by EPA / Standard Methods												
<u>General Chemistry Parameters</u> Chloride	<u>110 standard Methods</u>		mg/kg dry	1	EA30803	01/08/13	01/08/13	EPA 300.0				
% Moisture	7.0	0.1	%	I	EA30901	01/09/13	01/09/13	% calculation				

Permian Basin Environmental Lab

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Nova Safety & Environment	Project:	SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number:	[none]	
Midland TX, 79703	Project Manager:	Jonathan Repman	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab

		Poportin a		Cuilco	Source		%/DEC		RPD	
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	Limit	Notes
Analyte		Linit	Units	Level	Kesuit	76KEC	Linnts	KFD		inotes
Batch EA30803 - *** DEFAULT PREP ***										
Blank (EA30803-BLK1)				Prepared &	k Analyzed:	01/08/13				
Chloride	ND	1.00	mg/kg wet							,
LCS (EA30803-BS1)				Prepared &	k Analyzed:	01/08/13				
Chloride	10.4		mg/kg Wet	10.0		104	80-120			
LCS Dup (EA30803-BSD1)				Prepared &	2 Analyzed:	01/08/13				
Chloride	10.3		mg/kg Wet	10.0		103	80-120	0.996	20	
Duplicate (EA30803-DUP1)	Sou	rce: 3A07008	3-01	Prepared &	2 Analyzed:	01/08/13				
Chloride	1250	2.84	mg/kg dry		1350			7.25	20	
Matrix Spike (EA30803-MS1)	Sou	rce: 3A07008	3-01	Prepared &	k Analyzed:	01/08/13				
Chloride	1530	2.84	mg/kg dry	156	1350	115	80-120			
Batch EA30901 - *** DEFAULT PREP ***										
Blank (EA30901-BLK1)				Prepared &	k Analyzed	01/09/13				
% Moisture	ND	0.1	%	-	-					
Duplicate (EA30901-DUP1)	Sou	rce: 3A08001	1-01	Prepared &	k Analyzed	01/09/13				
% Moisture	6.0	0.1	%		7.0	*		15.4	20	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety; with written approval of Permian Basin Environmental Lab.

Nova Safety & EnvironmentProject:SUG Chicken FarmFax: (432) 520-77012057 CommerceProject Number:[none]Midland TX, 79703Project Manager:Jonathan Repman

Notes and Definitions

DET Analyte DETECTED ND Analyte NOT DETECTED at or above the reporting limit Not Reported NR Sample results reported on a dry weight basis dгy Relative Percent Difference RPD LCS Laboratory Control Spike MS Matrix Spike Duplicate Dup

Report Approved By:

Kenon Date: 1/10/2013

Brent Barron, Laboratory Director/Technical Director

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Permian Basin Environmental Lab

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10014 SCR 1213 Midland, TX 79706 432-686-7235

Page 5 of 6

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• *	Company Add	ess: 2057 Comme	rce Dr.	•				· · ·				•					P	roje	ct Lo	c:		 	Lea	a, Co	. Nev	v Mex	ico		•
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# (lab.use only)				Beginning Depth	Ending Depth	e Sampled		Time Sampled	Field Filtered	#. of Containers			0	H		rinking Water SL=Sludge	Groundwater S=Soll/Solid on-Potable Specify Other	418.1 B015M BC	TX 1005 TX 1006	Cations (Ca. Mg, Na, K) Anions (CI SO4 Alkaliniky)	ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles Semivolatiles	BTEX 8021B/5030 or BTEX 8260		N.O.R.M. Chloridas F 300	1		DIICHTAT
		FIELD CODE		Beg	End	Date		Ë	Field	Total	La lo	ੂ ਸ	H ₂ SO ₄	NaOH Na ₂ S ₂ O ₃	None	DW=Du	GW =	Ηd	H	Catio	SAR /	Metat	Volatiles Semivolai	BTEX	ŝ	Chloride	5	Ĺ	0
<u>0</u>]		S/W-1A @ 6'				1/7/2013	0	:00	<u> </u>	1	x		<u> </u> .	•••		<u> </u> .	S				-			+-	\square	×			
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PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



Analytical Report

Prepared for:

Jonathan Repman Nova Safety & Environment 2057 Commerce Midland, TX 79703

Project: SUG Chicken Farm Project Number: [none] Location: Lea County, New Mexico

Lab Order Number: 3A17007



NELAP/TCEQ # T104704156-12-1

Report Date: 01/22/13

Nova Safety & Environment 2057 Commerce Midland TX, 79703	Project: SUG Chicke Project Number: [none] Project Manager: Jonathan Re			°ax: (432) 520-7701
	ANALYTICAL REPORT FOR SAM	PLES		
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E/W-3 @ 13ft	3A17007-01	Soil	01/15/13 11:00	01-17-2013 14:57
RP-North @ 5ft	3A17007-02	Soil	01/16/13 11:00	01-17-2013 14:57
RP-North @ 7ft	3A17007-03	Soil	01/16/13 11:30	01-17-2013 14:57
RP-North @ 10ft	3A17007-04	Soil	01/16/13 12:00	01-17-2013 14:57
TT-1 @ 1'	3A17007-05	Soil	01/16/13 13:50	01-17-2013 14:57
TT-1 @ 2'	3A17007-06	Soil	01/16/13 14:00	01-17-2013 14:57
TT-2 @ 1'	3A17007-07	Soil	01/16/13 14:10	01-17-2013 14:57
TT-3 @ 1'	3A17007-08	Soil	01/16/13 14:20	01-17-2013 14:57
TT-4 @ 1'	3A17007-09	Soil	01/16/13 14:30	01-17-2013 14:57
TT-5 @ 2'	3A17007-10	Soil	01/16/13 14:40	01-17-2013 14:57

E/W-3 @ 13ft 3A17007-01 (Soil)

Ameluto	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Analyte	Kesun	Linit	Ullis	Dilution		Fiepareu	Analyzeu	Methou	
	Pe	rmian Basi	n Environn	nental La	b				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EA31807	01/17/13	01/17/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	, 1	EA31807	01/17/13	01/17/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EA31807	01/17/13	01/17/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EA31807	01/17/13	01/17/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	j	EA31807	01/17/13	01/17/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		118 %	75-1	25 ·	EA31807	01/17/13	01/17/13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		64.4 %	75-1	25	EA31807	01/17/13	01/17/13	EPA 8021B	S-GC
General Chemistry Parameters by EP	A / Standard Method	ls							
Chloride	286	1.11	mg/kg dry	I	EA31810	01/18/13	01/18/13	EPA 300.0	
% Moisture	10.0	0.1	%	1	EA31802	01/17/13	01/18/13	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80)15M							
C6-C12	ND	27.8	mg/kg dry	1	EA31805	01/17/13	01/17/13	8015M	
>C12-C28	28.0	27.8	mg/kg dry	1	EA31805	01/17/13	01/17/13 .	8015M	
>C28-C35	ND	. 27.8	mg/kg dry	1	EA31805	01/17/13	01/17/13	8015M	
Surrogate: 1-Chlorooctane		102 %	70-1	30	EA31805	01/17/13	01/17/13	8015M	
Surrogate: o-Terphenyl		124 %	70-1	30	EA31805	01/17/13	01/17/13	8015M	
Total Hydrocarbon nC6-nC35	28.0	25.0	mg/kg dry	1	[CALC]	01/17/13	01/17/13	8015M	

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Nova Safety & Environment		Proj	ect: SUG Chie	cken Farr	n		~	Fax: (432) 5	20-7701
2057 Commerce		Project Num	ber: [none]						
Midland TX, 79703		Project Mana	ger: Jonathan	Repman					
		RP-N	North @ 5ft			•			
·		3A17	007-02 (Soil)					_	
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Р	ermian Basi	n Environme	ntal La	b				
Organics by GC			······			<u></u>			
Benzene	ND	0.00100	mg/kg dry	1	EA31807	01/17/13	01/17/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	I	EA31807	01/17/13	01/17/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	i	EA31807	01/17/13	01/17/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EA31807	01/17/13	01/17/13 -	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EA31807	01/17/13	01/17/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		117 %	75-125	5	EA31807	01/17/13	01/17/13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		64.9 %	75-125	.	EA31807	01/17/13	01/17/13	EPA 8021B	- <i>S-GC</i>
<u>General Chemistry Parameters by El</u>	PA / Standard Metho	ds							
Chloride	386	1.15	mg/kg dгу	1	EA31810	01/18/13	01/18/13	EPA 300.0	
% Moisture	13.0	0.1	%	1	EA31802	01/17/13	01/18/13	% calculation	
<u>Total Petroleum Hydrocarbons C6-C</u>	35 by EPA Method 8	015M			•				
C6-C12	ND	28.7	mg/kg dry	1	EA31805	01/17/13	01/18/13	8015M	
>C12-C28	ND	. 28.7	mg/kg dry	1	EA31805	01/17/13	01/18/13	8015M	
>C28-C35	ND	28.7	mg/kg dry	1	EA31805	01/17/13	01/18/13	8015M	
Surrogate: 1-Chlorooctane		109 %	70-130)	EA31805	01/17/13	01/18/13	8015M	
Surrogate: o-Terphenyl		128 %	70-130)	EA31805	01/17/13	01/18/13	8015M	
Total Hydrocarbon nC6-nC35	ND	25.0	mg/kg dry	1	[CALC]	01/17/13	01/18/13	8015M	

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Nova Safety & Environment 2057 Commerce Midland TX, 79703		Project Num	ect: SUG Ch ber: [none] ger: Jonathar		n			Fax: (432) 52	.0-7701
			North @ 71 007-03 (Soil						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pe	rmian Basi	n Environm	ental La	b				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EA31807	01/17/13	01/17/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EA31807	01/17/13	01/17/13	EPA 8021B	
Ethylbenzene	. ND	0.00100	mg/kg dry	1	EA31807	01/17/13	01/17/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EA31807	01/17/13	01/17/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EA31807	01/17/13	01/17/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		· 115 %	75-12	25	EA31807	01/17/13	01/17/13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		46.8 %	75-12	25	EA31807	01/17/13	01/17/13	EPA 8021B	S-GC
General Chemistry Parameters by E	PA / Standard Method	s							
Chloride	488	1.06	mg/kg dry	1	EA31810	01/18/13	01/18/13	EPA 300.0	
% Moisture	. 6.0	0.1	%	1	EA31802	01/17/13	01/18/13	% calculation	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80	15M			•				
C6-C12	ND	26.6	mg/kg dry	1	EA31805	01/17/13	01/18/13	8015M	
>C12-C28	ND	26.6	mg/kg đry	1	EA31805	01/17/13	01/18/13	8015M	
>C28-C35	ND	26.6	mg/kg dry	1	EA31805	01/17/13	01/18/13	8015M	
Surrogate: 1-Chlorooctane		100 %	70-1.	30	EA31805	01/17/13	01/18/13	8015M	
Surrogate: o-Terphenyl		123 %	70-1.	30	EA31805	01/17/13	01/18/13	8015M	
Total Hydrocarbon nC6-nC35	ND	25.0	mg/kg dry	1	[CALC]	01/17/13	01/18/13	8015M	

The results in this report apply to the samplex analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

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Nova Safety & Environment		Proj	ect: SUG Chie	cken Farr	n			Fax: (432) 5	520-7701
2057 Commerce		Project Num							
Midland TX, 79703		Project Mana	ger: Jonathan	Repman					
		RP-N	lorth @ 10fi	t			•		
		3A17	007-04 (Soil)						
		Reporting						·	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pe	rmian Basi	n Environme	ntal La	b				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EA31807	01/17/13	01/17/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EA31807	01/17/13	01/17/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EA31807	01/17/13	01/17/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EA31807	01/17/13	01/17/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EA31807	01/17/13	01/17/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		118 %	75-125	;	EA31807	01/17/13	01/17/13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		62.0 %	75-125	Ĩ.	EA31807	01/17/13	01/17/13	EPA 8021B	S-GC
<u>General Chemistry Parameters by I</u>	EPA / Standard Method	ls .							
Chloride	269	1.05	mg/kg dry	1	EA31810	01/18/13	01/18/13	EPA 300.0	
% Moisture	5.0	. 0.1	%	I	EA31802	01/17/13	01/18/13	% calculation	
Total Petroleum Hydrocarbons C6-	C35 by EPA Method 80	15M							
C6-C12	ND	26.3	mg/kg dry	1	EA31805	01/17/13	01/18/13	8015M	
>C12-C28	ND	26.3	mg/kg dry	1	EA31805	01/17/13	01/18/13	8015M	
>C28-C35	ND	26.3	mg/kg dry	1	EA31805	01/17/13	01/18/13	8015M	
Surrogate: 1-Chlorooctane		91.0 %	70-130)	EA31805	01/17/13	01/18/13	8015M	
Surrogate: o-Terphenyl		105 %	70-130)	EA31805	• 01/17/13	01/18/13	.8015M	
Total Hydrocarbon nC6-nC35	ND	25.0	mg/kg dry	1	[CALC]	01/17/13	01/18/13	8015M	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Nova Satety & Environment 2057 Commerce Midland TX, 79703		oject Num	ect: SUG C ber: [none] ger: Jonatha		n			Fax: (432) 52	20-7701
			T-1 @ 1' 007-05 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basi	n Environi	mental Lal	b				
General Chemistry Parameters by	EPA / Standard Methods								
Chloride % Moisture	74.5 9.0	1.10 0.1	mg/kg dry %	1 1	EA31810 EA31802	01/18/13 01/17/13	01/18/13 01/18/13	EPA 300.0 % calculation	

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Nova Safety & Environment 2057 Commerce Midland TX, 79703		Proje Project Numb Project Manag	er: [none]	hicken Farn in Repman	n			Fax: (432) 52	20-7701
· .			Г-1 @ 2')07-06 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
۰.	Per	rmian Basir	Environ	nental Lal	b .				
General Chemistry Parameters by E	PA / Standard Method	5							
Chloride	2040	2.81	mg/kg dry	2.5	EA31810	01/18/13	01/18/13	EPA 300.0	

%

1

EA31802

01/17/13

01/18/13

% calculation

0.1

11.0

Permian Basin Environmental Lab

% Moisture

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

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Nova Safety & Environment 2057 Commerce Midland TX, 79703		Proje Project Numb Project Manag			n ·			Fax: (432) 52	
			「-2 @ 1' 007-07 (Soil)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Permian Basin	Environm	ental La	b				
<u>General Chemistry Parameters by EPA / 5</u> Chloride % Moisture	<u>Standard Meth</u> 260 10.0		mg/kg dry %	1	EA31810 EA31802	01/18/13 01/17/13	01/18/13	EPA 300.0 % calculation	
	10.0		-	-		0017713	011015		
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Nova Safety & Environment 2057 Commerce Midland TX, 79703		Proje Project Numb Project Manag			n			Fax: (432) :	520-7701
			Г-3 @ 1' 007-08 (Soi	l)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Р	ermian Basiı	n Environn	nental La	b				
General Chemistry Parameters by EPA									
Chloride % Moisture	38.2 8.0	1.09 0.1	mg/kg dry %	1 1	EA31810 EA31802	01/18/13 01/17/13	01/18/13 01/18/13	EPA 300.0 % calculation	
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							·		
Permian Basin Environmental Lab			The results	in this repo	rt apply to the	samples analy	zed in accorda	nce with the sampl	es

Nova Safety & Environment		Pro	ect: SUG C	hicken Farr	n			Fax: (432) 52	0-7701
2057 Commerce	F		ber: [none]						
Midland TX, 79703			ger: Jonatha	n Repman					
	··· ··· · · · · · · · · · · · · · · ·								
			T-4 @ 1'						
	<u> </u>	3A17	007-09 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Per	mian Basi	n Environr	nental La	b				
General Chemistry Parameters by EP	A / Standard Methods								
Chloride	1010	2.72	mg/kg dry	2.5	EA31810	01/18/13	01/18/13	EPA 300.0	
% Moisture	8.0	0.1	%	1	EA31802	01/17/13	01/18/13	% calculation	
							•		
				•					

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Nova Safety & Environment 2057 Commerce Midland TX, 79703		roject Numl	ect: SUG C ber: [none] ger: Jonatha		n			Fax: (432) 52	20-7701
	•		T-5 @ 2' 007-10 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Per	mian Basiı	n Environi	nental La	b				
General Chemistry Parameters by EF	A / Standard Methods								
Chloride % Moisture	264 10.0	1.11 0.1	mg/kg dry %	1	EA31810 EA31802	01/18/13 01/17/13	01/18/13 01/18/13	EPA 300.0 % calculation	

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Nova Safety & Environment	Project: SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number: [none]	
Midland TX, 79703	Project Manager: Jonathan Repman	

Organics by GC - Quality Control

Permian Basin Environmental Lab

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

Batch EA31807 - General Preparation (GC)

Blank (EA31807-BLK1)				Prepared &	Analyzed:	01/17/13				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	9							
Ethylbenzene	ND	0.00100	17							
Xylene (p/m)	ND	0.00200								
Xylene (o)	ND	0.00100								
Surrogate: 1,4-Difluorohenzene	70.8		ug/kg	60.0		118	75-125			
Surrogate: 4-Bromofluorohenzene	43.0		"	60.0		71.7	75-125			S-GC
LCS (EA31807-BS1)				Prepared: 0	1/17/13 A	nalyzed: 01	/18/13			
Benzene	0.0874	0.00100	mg/kg wet	0.100		87.4	80-120			
Toluene	0.119	0.00200		0.100		119	80-120			
Ethylbenzene	0.110	0.00100	. "	0.100		110	80-120			
Xylene (p/m)	0.225	0.00200		0.200		112	80-120			
Xylene (o)	0.106	. 0.00100		0.100		106	80-120			
Surrogate: 1,4-Difluorobenzene	65.2	·····	ug/kg	60.0		109	. 75-125			
Surrogate: 4-Bromofluorohenzene	53.5		"	60.0		89.2	75-125			
LCS Dup (EA31807-BSD1)				Prepared: 0	1/17/13 A	nalyzed: 01	/18/13			
Benzene	0.0923	0.00100	mg/kg wet	0.100		92.3	80-120	5.44	20	
Toluene	0.119	0.00200		0.100		119	80-120	0.312	20	
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120	4.67	20	
Xylene (p/m)	0.237	0.00200	"	0.200		119	80-120	5.53	20	
Xylene (o)	0.109	0.00100	**	0.100		109	80-120	3.01	20	
Surrogate: 1,4-Difluorobenzene	63.0		ug/kg	60.0		105	75-125			
Surrogate: 4-Bromofluorobenzene	45.4		"	60.0		75.7	75-125			
Matrix Spike (EA31807-MS1)	Sou	rce: 3A17007	7-01	Prepared: 0	1/17/13 A	.nalyzed: 0	1/18/13			`
Benzene	0.0463	0.00100	mg/kg dry	0.111	ND	41.7	80-120			QM-0:
Toluene	0.0625	0.00200	"	0.111	ND	56.2	80-120			QM-05
Ethylbenzene	0.0625	0.00100		0.111	ND	56.2	80-120			QM-0
Xylene (p/m)	0.114	0.00200	"	0.222	ND	51.2	80-120			QM-05
Xylene (o)	0.0651	0.00100	'n	0.111	ND	58.6	80-120			QM-0:
Surrogate: 1,4-Difluorobenzene	70.1		ug/kg	60.0		117	75-125			
Surrogate: 4-Bromofluorobenzene	49.5		"	60.0		82.6	75-125			

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Nova Safety & Environment 2057 Commerce Midland TX, 79703

Project: SUG Chicken Farm Project Number: [none] Project Manager: Jonathan Repman

Organics by GC - Quality Control

Permian Basin Environmental Lab

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

Batch EA31807 - General Preparation (GC)

Matrix Spike Dup (EA31807-MSD1)	Sou	rce: 3A17007	-01	Prepared: 0	1/17/13	Analyzed: 0	1/18/13			
Benzene	0.0572	0.00100	mg/kg dry	0.111	ND	· 51.5	80-120	21.0	20	QM-05
Toluene	0.0787	0.00200	"	0.111	ND	70.8	80-120	22.9	20	QM-05
Ethylbenzene	0.0789	0.00100	н	0.111	ND	71.0	80-120	23.2	20	QM-05
Xylene (p/m)	0.147	0.00200	"	0.222	NĎ	66.2	80-120	25.6	20	QM-05
Xylene (o)	0.0799	0.00100		0.111	ND	71.9	80-120	20.4	20	QM-05
Surrogate: 1,4-Difluorobenzene	70.9		ug/kg	60.0	-	118	75-125			
Surrogate: 4-Bromofluorobenzene	57.8	8	"	60,0		96.3	75-125			

Permian Basin Environmental Lab

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Nova Safety & Environment		Р	roject: SU	G Chicken F	arm				Fax: (432) 520-770
2057 Commerce	• •		mber: [noi							
Midland TX, 79703		Project Ma	nager: Jon	athan Repma	an					
Genera	l Chemistry Para	•				ls - Qua	lity Con	trol		
	Pei	mian Bas	in Envi	onment	al Lab					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA31802 - *** DEFAULT PR	REP ***									
Blank (EA31802-BLK1)				Prepared: 0)1/17/13 A	nalyzed: 01	/18/13			
% Moisture	ND	0.1	%							
Duplicate (EA31802-DUP1)	Sou	-ce: 3A17002	-01	Prepared: 0)1/17/13 A	nalyzed: 01	/18/13			
% Moisture	12.4	0.1	%		14.8			17.6	20	
Batch EA31810 - *** DEFAULT PR	XEP ***									
Blank (EA31810-BLK1)				Prepared &	Analyzed:	01/18/13				
/										
Chloride	ND	1.00	mg/kg wet							
/	ND	1.00	mg/kg wet	Prepared &	k Analyzed:	01/18/13				
Chloride	ND 10.0	1.00	mg/kg wet mg/kg Wet	Prepared &	2 Analyzed	01/18/13	80-120			
Chloride LCS (EA31810-BS1)		1.00		•		100	80-120			
Chloride LCS (EA31810-BS1) Chloride LCS Dup (EA31810-BSD1)		1.00		10.0		100	80-120	0.0498	20	
Chloride LCS (EA31810-BS1) Chloride LCS Dup (EA31810-BSD1) Chloride	10.0	1.00	mg/kg Wet	10.0 Prepared &	z Analyzed:	100 01/18/13 100	<u></u>	0.0498	20	
Chloride LCS (EA31810-BS1) Chloride	10.0	rce: 3A17006	mg/kg Wet	10.0 Prepared & 10.0	z Analyzed:	100 01/18/13 100	<u></u>	0.0498	20	
Chloride LCS (EA31810-BS1) Chloride LCS Dup (EA31810-BSD1) Chloride Duplicate (EA31810-DUP1)	10.0 10.0 Sou 25.2	rce: 3A17006	mg/kg Wet mg/kg Wet -01 mg/kg dry	10.0 Prepared & 10.0	2 Analyzed: 2 Analyzed: 23.2	100 01/18/13 100 01/18/13	<u></u>		•	
Chloride LCS (EA31810-BS1) Chloride LCS Dup (EA31810-BSD1) Chloride Duplicate (EA31810-DUP1) Chloride	10.0 10.0 Sou 25.2	rce: 3A17006 1.23 rce: 3A17006	mg/kg Wet mg/kg Wet -01 mg/kg dry	10.0 Prepared & 10.0 Prepared &	2 Analyzed: 2 Analyzed: 23.2	100 01/18/13 100 01/18/13	<u></u>		•	
Chloride LCS (EA31810-BS1) Chloride LCS Dup (EA31810-BSD1) Chloride Duplicate (EA31810-DUP1) Chloride Matrix Spike (EA31810-MS1)	10.0 10.0 Sou 25.2 Sou 154	rce: 3A17006 1.23 rce: 3A17006	mg/kg Wet mg/kg Wet -01 mg/kg dry -01 mg/kg dry	10.0 Prepared & 10.0 Prepared & Prepared &	2 Analyzed 2 Analyzed 23.2 2 Analyzed 23.2	100 01/18/13 100 01/18/13 84.5	80-120		•	

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- 1			
	Nova Safety & Environment	Project: SUG Chicken Farm	Fax: (432) 520-7701
	2057 Commerce	Project Number: [none]	
	Midland TX, 79703	Project Manager: Jonathan Repman	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian	Basin	Environ	mental	Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA31805 - TX 1005										
Blank (EA31805-BLK1)			÷	Prepared &	Analyzed:	01/17/13				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	**							
Surrogate: 1-Chlorooctane	92.9		"	100		92.9	70-130			
Surrogate: o-Terphenyl	53.7		"	50.0		107	70-130			
LCS (EA31805-BS1)				Prepared &	Analyzed:	01/17/13				
C6-C12	1070	25.0	mg/kg wet	1000		107	75-125		-	
>C12-C28	1150	25.0	*	1000		115	75-125			
>C28-C35	ND	25.0	"	0.00			75-125			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	55.2		"	50.0		110	70-130			
Matrix Spike (EA31805-MS1)	Sou	rce: 3A17007	-01	Prepared &	Analyzed:	01/17/13				
C6-C12	1170	27.8	mg/kg dry	1110	ND	106	75-125			
>C12-C28	1220	27.8	"	1110	28.0	107	75-125			
>C28-C35	ND	27.8	"	0.00	ND		75-125			
Surrogate: 1-Chlorooctane	131		"	111		118	70-130			
Surrogate: o-Terphenyl	64.2		"	55.6		116	70-130			
Matrix Spike Dup (EA31805-MSD1)	Sou	irce: 3A17007	7-01	Prepared &	ż Analyzed:	01/17/13				
C6-C12	1150	27.8	mg/kg dry	1110	ND	103	75-125	2.16	20	
>C12-C28	1200	27.8	н	1'110	28.0	106	75-125	1.56	20	
>C28-C35	ND	27.8	"	0.00	ND		75-125		20	
Surrogate: 1-Chlorooctane	131		"	111		118	70-130			
Surrogate: o-Terphenyl	63.0		"	55.6		113	70-130			

Permian Basin Environmental Lab

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Nova Safety & Environment	Project	SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number	[none]	
Midland TX, 79703	Project Manager	Jonathan Repman	

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By:

Bun Barron Date:

1/22/2013

Brent Barron, Laboratory Director/Technical Director

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If you have received this material in error, please notify us immediately at 432-686-7235.

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PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



Analytical Report

Prepared for:

Jonathan Repman Nova Safety & Environment 2057 Commerce Midland, TX 79703

Project: SUG Chicken Farm Project Number: [none] Location: Lea Co. New Mexico

Lab Order Number: 3A25006



NELAP/TCEQ # T104704156-12-1

Report Date: 01/29/13

Nova Safety & Environment	Project: SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number: [none]	
Midland TX, 79703	Project Manager: Jonathan Repman	<u>.</u>

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-A @ 7'	3A25006-01	Soil	01/24/13 12:00	01-25-2013 16:22
E/W-A @ 6'	3A25006-02	Soil	01/24/13 12:15	01-25-2013 16:22
W/W-1 @ 6'	3A25006-03	Soil	01/24/13 12:30	01-25-2013 16:22
E/W-4 @ 9'	3A25006-04	Soil	01/24/13 14:30	01-25-2013 16:22

Nova Safety & Environment	Project:	SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number:	[none]	
Midland TX, 79703	Project Manager:	Jonathan Repman	
······		•	

BH-A @ 7'

3A25006-01 (Soil)

						•			
Analyte	Result	Reporting Limit	Units	Dilution .	Batch	Prepared	Analyzed	Method	Notes
	Per	mian Basin	Environn	nental Lab)	_			
General Chemistry Parameters by EP	A / Standard Methods	<u> </u>							
Chloride	12.7	1.08	mg/kg dry	I	EA32806	01/28/13	01/29/13	EPA 300.0	
% Moisture	7.0	0.1	%	1	EA32901	01/28/13	01/29/13	% calculation	

Permian Basin Environmental Lab

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Page 3 of 12

Nova Safety & Environment 2057 Commerce Midland TX, 79703		Project: SUG C roject Number: [none] oject Manager: Jonath				Fax: (432) 52	20-7701
		E/W-A @ 6 3A25006-02 (So					
Analyte	Result	Reporting Limit Units	Dilution Batch	Prepared	Analyzed	Method	Ņotes
	Peri	mian Basin Environ	mental Lab	-			
General Chemistry Parameters by EP.			1 EA22806			EPA 300.0	
Chloride % Moisture	12.3 3.0	1.03 mg/kg dry 0.1 %	I EA32806 I EA32901	01/28/13 01/28/13	01/29/13 01/29/13	% calculation	
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Nova Safety & Environment 2057 Commerce Midland TX, 79703		roject Num	ject: SUG C ber: [none] ger: Jonath		m			Fax: (432) 52	20-7701
			/W-1 @ 6 5006-03 (So						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Per	mian Basi	n Environi	nental La	b				
General Chemistry Parameters by EF	A / Standard Methods								
Chloride % Moisture	4.84 4.0	1.04 0.1	mg/kg dry %	1 1	EA32806 EA32901	01/28/13 01/28/13	01/29/13 01/28/13	EPA 300.0 % calculation	

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Page 5 of 12

Nova Safety & Environment		Proj	ect: SUG Cl	nicken Farr	n			Fax: (432) 52	20-7701
2057 Commerce		Project Num	ber: [none]						
Midland TX, 79703		Project Mana	ger: Jonatha	n Repman					
	· ·	E/	W-4 @ 9'						
			006-04 (Soi	l)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pe	ermian Basi	n Environn	iental La	 b				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EA32904	01/28/13	01/28/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EA32904	01/28/13	01/28/13	EPA 8021B	
Ethylbenzene	0.00693	0.00100	mg/kg dгу	1	EA32904	01/28/13	01/28/13	EPA 8021B	
Xylene (p/m)	0.0131	0.00200	mg/kg dry	I	EA32904	01/28/13	01/28/13	EPA 8021B	
Xylene (0)	0.00502	0.00100	mg/kg dry	1	EA32904	01/28/13	01/28/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		117 %	75-1	25	EA32904	01/28/13	01/28/13	EPA 8021B	
Surrogate: 4-Bròmofluorobenzene		81.5 %	75-1	25	EA32904	01/28/13	01/28/13	EPA 8021B	
<u>General Chemistry Parameters by E</u>		ls _							
Chloride	112	1.05	mg/kg dry	1	EA32806	01/28/13	01/29/13	EPA 300.0	
% Moisture	5.0	0.1	%	1	EA32901	01/28/13	01/28/13	% calculation	
<u>Total Petroleum Hydrocarbons C6-(</u>	C35 by EPA Method 80	015 <u>M</u>		·		<u></u>			
C6-C12	ND	26.3	mg/kg dry	1	EA32903	01/28/13	01/28/13	8015M	
>C12-C28	64.3	26.3	mg/kgˈdry	I	EA32903	01/28/13	01/28/13	8015M	
>C28-C35	46.3	26.3	mg/kg dry	1	EA32903	01/28/13	01/28/13	8015M	
Surrogate: 1-Chlorooctane		84.7 %	70-1	30	EA32903	01/28/13	01/28/13	8015M	
Surrogate: o-Terphenyl		94.1 %	70-1	30	EA32903	01/28/13	01/28/13	8015M	
Fotal Hydrocarbon nC6-nC35	111	25.0	mg/kg dry	1	[CALC]	01/28/13	01/28/13	8015M	

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Nova Safety & Environment	Project:	SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number:	[none]	
Midland TX, 79703	Project Manager:	Jonathan Repman	

Organics by GC - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA32904 - General Preparation (GC)									·	
Blank (EA32904-BLK1)				Prepared 8	k Analvzed:	01/28/13				

Blank (EA32904-BLK1)				Prepared &	& Analyzed:	01/28/13				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	*							
Xylene (0)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	70.0		ug/kg	60.0		117	75-125			
Surrogate: 4-Bromofluorobenzene	44.9		"	60.0		74.8	75-125			S-GC
LCS (EA32904-BS1)				Prepared &	& Analyzed:	01/28/13				
Benzene	0.0802	0.00,100	mg/kg wet	0.100		80.2	80-120			
Toluene	0.110	0.00200	"	0.100		110	80-120			
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120			
Xylene (p/m)	0.236	0.00200		0.200		118	80-120			
Xylene (0)	0.109	0.00100		0.100		109	80-120			
Surrogate: 1,4-Difluorobenzene	70.2		ug/kg	60.0		117	75-125			
Surrogate: 4-Bromofluorohenzene	63.2		"	60.0		105	75- 125			
LCS Dup (EA32904-BSD1)				Prepared &	& Analyzed:	01/28/13				
Benzene	0.0831	0.00100	mg/kg wet	0.100		83.1	80-120	3.58	20	
Toluene	0.110	0.00200	"	0.100		110	80-120	0.236	20	
Ethylbenzene	0.114	0.00100		0.100		114	80-120	0.708	20	
Xylene (p/m)	0.236	0.00200	"	0.200		118	80-120	0.00848	20	
Xylene (o)	0,110	0.00100	14	0,100		110	80-120	0.128	20	
Surrogate: 1,4-Difluorohenzene	70.5		ug/kg	60.0		117	75-125			
Surrogate: 4-Bromofluorobenzene	62.4		"	60.0		104	75-125			
Matrix Spike (EA32904-MS1)	Sou	rce: 3A25005	5-01	Prepared &	& Analyzed:	01/28/13				
Benzene	0.0424	0.00100	mg/kg dry	0.114	0.00153	36.0	80-120			QM-05
Toluene	0.0572	0.00200	14	0.114	ND	50.3	80-120			QM-05
Ethylbenzene	0.0555	0.00100	м	0.114	ND	48.8	80-120			QM-05
Xylene (p/m)	0.110	0.00200	**	0.227	ND	48.4	80-120			QM-05
Xylene (o)	0.0550	0.00100		0.114	ND	48.4	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	60.5		ug/kg	60.0		101	75-125			
Surrogate: 4-Bromofluorobenzene	44.5		"	60.0		74.1	75-125			S-GC

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Nova Safety & Environment	Project:	SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number:	[none]	
Midland TX, 79703	Project Manager:	Jonathan Repman	

Organics by GC - Quality Control

Permian Basin Environmental Lab

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

Batch EA32904 - General Preparation (GC)

Matrix Spike Dup (EA32904-MSD1)	Sou	Prepared &	& Analyzed:	01/28/13		•				
Benzene	0.0451	0.00100	mg/kg dry	0.114	0.00153	38.3	80-120	6.38	20	QM-05
Toluene	0.0598	0.00200	"	0.114	ND	52.6	80-120	4.47	20	QM-05
Ethylbenzene	0.0633	0.00100	17	0.114	ND .	55.7	80-120	13.2	20	QM-05
Xylene (p/m)	0.130	0.00200	· "	0.227	ND	57.1	80-120	16.5	20	QM-05
Xylene (o)	0.0621	0.00100	"	0.114	ND	54.6	80-120	12.0	20	QM-05
Surrogate: 1,4-Difluorobenzene	59.8		ug/kg	60.0		99.7	75-125			
Surrogate: 4-Bromofluorohenzene	51.4		"	60.0		85.8	75-125			

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Nova Safety & Environment 2057 Commerce	Project: Project Number:	SUG Chicken Farm	Fax: (432) 520-770
Midland TX, 79703	5	Jonathan Repman	

Permian Basin Environmental Lab

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA32806 - *** DEFAULT PREP ***										
Blank (EA32806-BLK1)				Prepared:	01/28/13 A	nalyzed: 01	/29/13			
Chloride	ND	1.00	mg/kg wet							
LCS (EA32806-BS1)				Prepared:	01/28/13 A	nalyzed: 01	/29/13			
Chloride	10.1		mg/kg Wet	10.0		101	80-120			
LCS Dup (EA32806-BSD1)				Prepared:	01/28/13 A	nalyzed: 01	/29/13			
Chloride	9.93		mg/kg Wet	10.0		99.3	80-120	1.63	20	
Duplicate (EA32806-DUP1)	Sou	rce: 3A25005	5-01	Prepared:	01/28/13 A	nalyzed: 01	/29/13			
Chloride	57.7	1.14	mg/kg dry		63.9			10.1	20	
Matrix Spike (EA32806-MS1)	Sou	rce: 3A25005	5-01	Prepared:	01/28/13 A	nalyzed: 01	/29/13			
Chloride	169	1.14	mg/kg dry	99.4	63.9	106	80-120			
Matrix Spike (EA32806-MS2)	Sou	rce: 3A25006	5-04 ·	Prepared:	01/28/13 A	nalyzed: 01	/29/13			
Chloride	239	1.05	mg/kg dry	92.1	112	138	80-120			QM-05
Batch EA32901 - *** DEFAULT PREP ***										
Blank (EA32901-BLK1)				Prepared &	& Analyzed	01/28/13				
% Moisture	ND	0.1	%	-						
Duplicate (EA32901-DUP1)	Sou	rce: 3A25004	4-01	Prepared &	& Analyzed	: 01/28/13				
% Moisture	5.5	0.1	%		6.2			12.0	20	

Permian Basin Environmental Lab

Nova Safety & Environment 2057 Commerce Midland TX, 79703

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

· ·	Pei	mian Ba	sin Envi	ronment	al Lab					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA32903 - TX 1005										
Blank (EA32903-BLK1)				Prepared &	Analyzed:	01/28/13				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	н							
>C28-C35	ND	25.0	н							
Surrogate: 1-Chlorooctane	100		"	100		100	70-130			
Surrogate: o-Terphenyl	55.0		n	50.0		110	70-130			
LCS (EA32903-BS1)				Prepared &	z Analyzed:	01/28/13			·	
C6-C12	1040	25.0	mg/kg wet	. 1000		104	75-125			
>C12-C28	1100	25.0	*	1000		110	75-125			
>C28-C35	ND	25.0	n	0.00			75-125			
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	54.9		n	50.0		110	70-130			
LCS Dup (EA32903-BSD1)				Prepared &	2 Analyzed:	01/28/13				
C6-C12	1050	25.0	mg/kg wet	1000		105	75-125	1.05	20	
>C12-C28	1090	25.0	"	1000		109	75-125	0.850	20	
>C28-C35	ND	25.0	"	0.00		• •	75-125		20	
Surrogate: 1-Chlorooctane	105	· · · ·	"	100		105	70-130			
Surrogate: o-Terphenyl	47.8		"	50.0		95 .7	70-130			
Matrix Spike (EA32903-MS1)	Sou	rce: 3A25005	-01	Prepared &	z Analyzed:	01/28/13				
C6-C12	1160 . ·	28.4	mg/kg dry	1140	ND	102	75-125			
>C12-C28	1170	28.4		1140	ND	103	75-125			
>C28-C35	53.0	28.4	**	0.00	ND		75-125			
Surrogate: 1-Chlorooctane	110		n	114		96.8	70-130			
Surrogate: o-Terphenyl	53.4		"	56.8		94.0	70-130			
Matrix Spike Dup (EA32903-MSD1)	Sou	rce: 3A25005	5-01	Prepared &	z Analyzed:	01/28/13				
C6-C12	1140	28.4	mg/kg dry	1140	ND	100	75-125	2.26	20	
>C12-C28	1240	28.4	н	1140	ND	109	75-125	6.11	20	
>C28-C35	31.6	28.4	"	0.00	ND ¹		75-125		20	
Surrogate: 1-Chlorooctane	112		"	114		98.7	70-130			

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10014 SCR 1213 Midland, TX 79706 432-686-7235

Nova Safety & Environment 2057 Commerce Midland TX, 79703

Project: SUG Chicken Farm Project Number: [none] Project Manager: Jonathan Repman

Fax: (432) 520-7701

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Burt Burron Date:

1/29/2013

Brent Barron, Laboratory Director/Technical Director

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10014 SCR 1213 Midland, TX 79706 432-686-7235

Page 11 of 12

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SI S		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	l otal #. of Containers	HNO ₃	HCI	H ₂ SO4	NaOH Na ₂ S ₂ O ₃	None	Other (Specify)	UW≂Unnking water GW ≃ Groundwater	NP=Non-Potable 1	TPH: 418.1	TPH: TX 1005	dations (Ca, Mg, Na, N) Anions (C! SO4 Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/503	RCI	N.O.R.M.	Chlorides E 300		RUSH TAT (Pre-Schedule)	Standard TAT
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PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



Analytical Report

Prepared for:

Jonathan Repman Nova Safety & Environment 2057 Commerce Midland, TX 79703

Project: SUG Chicken Farm Project Number: [none] Location: Lea Co. New Mexico

Lab Order Number: 3A28001



NELAP/TCEQ # T104704156-12-1

Report Date: 01/31/13

	Nova Safety & Environment	Project:	SUG Chicken Farm	Fax: (432) 520-7701
•	2057 Commerce	Project Number:	[none]	
	Midland TX, 79703	Project Manager:	Jonathan Repman	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RP-South @ 26'	3A28001-01	Soil	01/25/13 14:00	01-28-2013 09:57
WT-1 @ 13'	3A28001-02	Soil	01/25/13 14:15	01-28-2013 09:57

Project: SUG Chicken Farm Project Number: [none] Project Manager: Jonathan Repman

RP-South @ 26' 3A28001-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Po	ermian Basi	n Environm	ental Lal)				
Organics by GC									-
Benzene	ND	0.00100	mg/kg dry	1	EA32906	01/29/13	01/29/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EA32906	01/29/13	01/29/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EA32906	01/29/13	01/29/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EA32906	01/29/13	01/29/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EA32906	01/29/13	01/29/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		119 %	75-1.	?5	EA32906	01/29/13	01/29/13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		62.4 %	75-1.	25	EA32906	01/29/13	01/29/13	EPA 8021B	S-G(
<u>General Chemistry Parameters by EI</u>	PA / Standard Methoe	ls							
Chloride	278	1.09	mg/kg dry	1	EA33101	01/31/13	01/31/13	EPA 300.0	
% Moisture	8.0	0.1	%	1	EA32902	01/28/13	01/29/13	% calculation	
<u>Total Petroleum Hydrocarbons C6-C</u>	35 by EPA Method 80	015M							
Total Petroleum Hydrocarbons C6-C C6-C12	<u>35 by EPA Method 80</u> ND	27.2	mg/kg dry	1	EA32907	01/29/13	01/29/13	8015M	
			mg/kg dry mg/kg dry	1	EA32907 EA32907	01/29/13 01/29/13	01/29/13 01/29/13	8015M 8015M	
C6-C12	ND	27.2		1 1 1					
C6-C12 >C12-C28 >C28-C35	ND ND	27.2 27.2	mg/kg dry	_	EA32907	01/29/13	01/29/13	8015M	
C6-C12 >C12-C28	ND ND	27.2 27.2 27.2	mg/kg dry mg/kg dry	80	EA32907 EA32907	01/29/13 01/29/13	01/29/13 01/29/13	8015M 8015M	

Permian Basin Environmental Lab

Nova Safety & Environment		Proj	ect: SUG Cl	nicken Farn	ı			Fax: (432) 52	20-7701
2057 Commerce		Project Num	ber: [none]						
Midland TX, 79703		Project Mana	ger: Jonatha	n Repman					
		\mathbf{W}^{\prime}	Г-1 @ 13'						
		3A28	001-02 (Soi	I)	<u> </u>				
		Reporting				·			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pe	ermian Basi	n Environn	nental La) _				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EA32906	01/29/13	01/29/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg đry	1	EA32906	01/29/13	01/29/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EA32906	01/29/13	01/29/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EA32906	01/29/13	01/29/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EA32906	01/29/13	01/29/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		118 %	75-1	25	EA32906	01/29/13	01/29/13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		68.8 %	75-1	25	EA32906	01/29/13	01/29/13	EPA 8021B	S-GC
General Chemistry Parameters by El	PA / Standard Method	ls							
Chloride	159	1.08	mg/kg dry	1	EA33101	01/31/13	01/31/13	EPA 300.0	
% Moisture	7.0	0.1	%	1	EA32902	01/28/13	01/29/13	% calculation	
<u>Total Petroleum Hydrocarbons C6-C</u>	35 by EPA Method 80)15M							
C6-C12	ND	26.9	mg/kg dry	1	EA32907	01/29/13	01/29/13	8015M	
>C12-C28	ND	26.9	mg/kg dry	1	EA32907	01/29/13	01/29/13	8015M	
>C28-C35	ND	26.9	mg/kg dry	1	EA32907	01/29/13	01/29/13	8015M	
Surrogate: 1-Chlorooctane		99.3 %	70-1	30	EA32907	01/29/13	01/29/13	8015M	
Surrogate: o-Terphenyl		108 %	70-1.	30	EA32907	01/29/13	01/29/13	8015M	
Total Hydrocarbon nC6-nC35	ND	25.0	mg/kg dry	1	[CALC]	01/29/13	01/29/13	8015M	

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Nova Safety & Environment	Project:	SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number:	[none]	
Midland TX, 79703	Project Manager:	. Jonathan Repman	

Organics by GC - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA32906 - General Preparatio	n (GC)	-								
Blank (EA32906-BLK1)				Prepared &	Analyzed	01/29/13				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	н							
Ethylbenzene	ND	0.00100	н							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	17							
Surrogate: 1,4-Difluorobenzene	70.7		ug/kg	60.0		118	75-125			
Surrogate: 4-Bromofluorohenzene	43.1		"	60.0		71.8	75-125			S-G
LCS (EA32906-BS1)				Prepared &	z Analyzed	01/29/13				
Benzene	0.0840	0.00100	mg/kg wet	0.100		84,0	80-120			
Toluene	0.113	0.00200	"	0.100		113	80-120			
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Xylene (p/m)	0.230	0.00200		0,200		115	80-120			
Xylene (0)	0.103	0.00100	н	0.100		103	80-120			
Surrogate: 1,4-Difluorobenzene	55.4		ug/kg	60.0		92.3	75-125			
Surrogate: 4-Bromofluorohenzene	49.3		"	60.0		82.2	75-125			
LCS Dup (EA32906-BSD1)				Prepared &	z Analyzed	01/29/13				
Benzene	0.0849	0.00100	mg/kg wet	0.100	· ·	84.9	80-120	1.08	20	
Toluene	0.118	0.00200	"	0.100		118	80-120	4.59	20	
Ethylbenzene	0.114	0.00100	"	. 0.100		114	80-120	2.71	20	
Xylene (p/m)	0.235	0.00200		0.200		117	80-120	2.21	20	
Xylene (o)	0.106	0.00100		0.100		106	80-120	2.69	20	
Surrogate: 1,4-Difluorohenzene	59.1		ug/kg	60.0		98.5	75-125			
Surrogate: 4-Bromofluorobenzene	49.5		"	60.0		82.4	75-125			
Matrix Spike (EA32906-MS1)	Sou	irce: 3A28001	1-02	Prepared &	2 Analyzed	: 01/29/13				
Benzene	0.0390	0.00100	mg/kg dry	0,108	ND	36,3	80-120			QM-0
Toluene	0.0422	0.00200	"	0.108	ND	39.2	80-120			QM-0
Ethylbenzene	0.0339	0.00100	"	0.108	ND	31.6	80-120			QM-0
Xylene (p/m)	0.0653	0.00200	"	0.215	ND	30.4	80-120			QM-0
Xylene (o)	0.0339	0.00100	"	0.108	ND	31.5	80-120			QM-0
Surrogate: 1,4-Difluorobenzene	65.6		ug/kg	60.0		109	75-125			
Surrogate: 4-Bromofluorobenzene	33.4		"	60.0		55.6	75-125			S-G

Permian Basin Environmental Lab

Nova Safety & Environment		Pr	oject: SUG	G Chicken F	arm				Fax: (432)	520-7701
2057 Commerce		Project Nu	mber: [nor	ne]						
Midland TX, 79703		Project Mar	nager: Jona	athan Repma	an	· .				
General	Chemistry Para	-				ls - Qua	lity Con	trol		
	Pe	rmian Bas	in Envir	onmenta	ai Lad			· · · · · · · · · · · · · · · · · · ·		<u> . . </u>
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA32902 - *** DEFAULT PR	EP ***									
Blank (EA32902-BLK1)				Prepared: 0	1/28/13 A	nalyzed: 01	/29/13			
% Moisture	ND	0.1	%							
Duplicate (EA32902-DUP1)	Sou	rce: 3A25008-	01	Prepared: 0)1/28/13 A	nalyzed: 01	/29/13			
% Moisture	7.7	0.1	%	•	7.4		i.	3.97	20	
Duplicate (EA32902-DUP2)	Sou	rce: 3A28001-	01	Prepared: ()1/28/13 A	nalyzed: 01	/29/13			
% Moisture	8.0	0.1	. %		8.0			0.00	20	
Batch EA33101 - *** DEFAULT PR	EP ***									
Blank (EA33101-BLK1)				Prepared &	: Analyzed:	01/31/13				
Chloride	ND	1.00	mg/kg wet	- ·						
LCS (EA33101-BS1)				Prepared &	: Analyzed:	01/31/13				
	9.93		mg/kg Wet	10.0		99.3	80-120			
LCS Dup (EA33101-BSD1)				Prepared &	· Analyzed:	01/31/13				
Chloride	9.87		mg/kg Wet	10.0		98.7	80-120	0.535	20	
Duplicate (EA33101-DUP1)	Sou	rce: 3A28001-	01	Prepared &	z Analyzed:	01/31/13				
Chloride	279	1.09	mg/kg dry		278			0.644	20	
Matrix Spike (EA33101-MS1)	Sou	rce: 3A28001-	-01	Prepared &	Analyzed:	01/31/13				
Chloride	396	1.09	mg/kg dry	109	278	108	80-120			
Matrix Spike (EA33101-MS2)	Sou	rce: 3A29005-	-03	Prepared &	Analyzed:	01/31/13				
				•	-					

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Nova Safety & Environment	Project:	SUG Chicken Farm		Fax: (432) 520-7701
2057 Commerce	Project Number:	[none]	-	
Midland TX, 79703	Project Manager:	Jonathan Repman		

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
					•		·			

Batch	EA32907 -	ТΧ	1005

Matrix Spike (EA32907-MS1)	Sour	e: 3A28001-02	Prep	ared &	Analyzed:	01/29/13				
C6-C12	1080	26.9 mg/k	g dry 1	080	ND	101	75-125			
>C12-C28	1140	26.9	" 1	080	ND	106	75-125			
>C28-C35	ND	26.9	" (00.00	ND		75-125			
Surrogate: 1-Chlorooctane	121		"	108		113	70-130			
Surrogate: o-Terphenyl	55.3		"	53.8		103	70-130			
Matrix Spike Dup (EA32907-MSD1)	Sour	ce: 3A28001-02	Prep	ared &	Analyzed:	01/29/13				
C6-C12	1130	26.9 mg/k	g dry 1	080	ND	105	75-125	4.22	20	
>C12-C28	1090	26.9	" 1	080	ND	101	75-125	4.46	20	
>C28-C35	ND	26.9	" (00.00	ND		75-125		20	
Surrogate: 1-Chlorooctane	139		ü	108		129	70-130			
Surrogate: o-Terphenyl	64.3			53.8		120	70-130			

Permian Basin Environmental Lab

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Nova Safety & Environment	Project: SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number: [none]	
Midland TX, 79703	Project Manager: Jonathan Repman	

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

DET Analyte DETECTED

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

	Bun Barron		
By:		Date:	1/31/2013

Report Approved By:

Brent Barron, Laboratory Director/Technical Director

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Permian Basin Environmental Lab

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(lab us				D	Ending Depth	Date Sampled	Time Sampled	g	Total #. of Containers	·	1	ŀ	1		None Other (Specify)	ng Wat	ndwate	418.1	TX 1005	a, 19	SAR / ESP / CEC	AgB				N.O.R.M. Chloridae E 200	ц v	.	ě I
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PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



Analytical Report

Prepared for:

Jonathan Repman Nova Safety & Environment 2057 Commerce Midland, TX 79703

Project: SUG Chicken Farm Project Number: [none] Location: Lea, Co. New Mexico

Lab Order Number: 3A29007



NELAP/TCEQ # T104704156-12-1

Report Date: 01/31/13

Nova Safety & Environment	Proje	ct: SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Numb	er: [none]	
Midland TX, 79703	Project Manag	er: Jonathan Repman	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WT-1 @ 13'	3A29007-01	Soil	01/28/13 15:00	01-29-2013 15:26
NT-2 @ 13'	3A29007-02	Soil	01/28/13 15:00	01-29-2013 15:26

Nova Safety & Environment	Project: SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number: [none]	
Midland TX, 79703	Project Manager: Jonathan Repman	

WT-1 @ 13'

3A29007-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	P	ermian Basi	n Environn	nental La)				
Organics by GC					•				
Benzene	ND	0.00100	mg/kg dry	1	EA33102	01/30/13	01/30/13	EPA 8021B	
Foluene	ND	0.00200	mg/kg dry	.1	EA33102	01/30/13	01/30/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EA33102	01/30/13	01/30/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EA33102	01/30/13	01/30/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EA33102	01/30/13	01/30/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		115 %	75-1	25	EA33102	01/30/13	01/30/13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		73.4 %	75-1	25	EA33102	01/30/13	01/30/13	EPA 8021B	S-G0
General Chemistry Parameters by El	PA / Standard Metho	ds							
Chloride	69.5	1.03	mg/kg dry	1	EA33101	01/31/13	01/31/13	EPA 300.0	
% Moisture	3.0	0.1	%	1	EA33002	01/29/13	01/30/13	% calculation	
Fotal Petroleum Hydrocarbons C6-C	35 by EPA Method 8	015M							
				1	EA33104	01/30/13	01/30/13	8015M	
	ND	25.8	mg/kg dry	1					
C6-C12 >C12-C28	ND ND	25.8 25.8	mg/kg dry mg/kg dry	1	EA33104	01/30/13	01/30/13	8015M	
C6-C12							01/30/13 01/30/13	8015M 8015M	
C6-C12 >C12-C28	ND	25.8	mg/kg dry	1 1	EA33104	01/30/13			
C6-C12 >C12-C28 >C28-C35	ND	25.8 25.8	mg/kg dry mg/kg dry	1 1 30	EA33104 EA33104	01/30/13 01/30/13	01/30/13	8015M	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

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Jova Safety & EnvironmentProject:SUG Chicken Farm057 CommerceProject Number:[none]Aidland TX, 79703Project Manager:Jonathan Repman									20-7701
			Г-2 @ 13' 007-02 (Soil)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pe	ermian Basi	n Environm	ental La	b				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EA33102	01/30/13	01/30/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EA33102	01/30/13	01/30/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EA33102	01/30/13	01/30/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EA33102	01/30/13	01/30/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EA33102	01/30/13	01/30/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		116 %	75-12	5	EA33102	01/30/13	01/30/13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		73.8 %	75-12	5	EA33102	01/30/13	01/30/13	EPA 8021B	S-GC
<u>General Chemistry Parameters by E</u>	PA / Standard Method	ls							
Chloride	58.9	1.06	mg/kg dry	1	EA33101	01/31/13	01/31/13	EPA 300.0	
% Moisture	6.0	0.1	%	1	EA33002	01/29/13	01/30/13	% calculation	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80	15M							
C6-C12	ND	26.6	mg/kg dry	1	EA33104	01/30/13	01/30/13	8015M	
>C12-C28	ND	26.6	mg/kg dry	1	EA33104	01/30/13	01/30/13	8015M	
>C28-C35	ND	26.6	mg/kg dry	1	EA33104	01/30/13	01/30/13	8015M	
Surrogate: 1-Chlorooctane		97.3 %	70-13	0	EA33104	01/30/13	01/30/13	8015M	
Surrogate: o-Terphenyl		108 %	70-13	0	EA33104	01/30/13	01/30/13	8015M	
Fotal Hydrocarbon nC6-nC35	ND	25.0	mg/kg dry	1	[CALC]	01/30/13	01/30/13	8015M	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Page 4 of 10

Nova Safety & Environment	Project:	SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number:	[none]	
Midland TX, 79703	Project Manager:	Jonathan Repman	

Organics by GC - Quality Control

	Pe	ermian Ba	sin Envi	ronment	al Lab					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA33102 - General Preparation (GC	C)									
Blank (EA33102-BLK1)				Prepared &	Analyzed	: 01/30/13				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	n							
Ethylbenzene	ND	0.00100	n							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	70.7		ug/kg	60.0		118	75-125			
Surrogate: 4-Bromofluorobenzene	42.8		"	60.0		71.3	75-125			S-GC
LCS (EA33102-BS1)				Prepared &	Analyzed	: 01/30/13				
Benzene	0.0824	0.00100	mg/kg wet				80-120			
Toluene	0.110	0.00200	"				80-120			
Ethylbenzene	0.112	0.00100	14				80-120			
Xylene (p/m)	0.231	0.00200	n				80-120			
Xylene (0)	0.104	0.00100	"				80-120			
Surrogate: 1,4-Difluorobenzene	55.4		ug/kg	60.0		92.3	75-125			
Surrogate: 4-Bromofluorobenzene	48.9		"	60.0		81.4	75-125			
LCS Dup (EA33102-BSD1)				Prepared &	z Analyzed	: 01/30/13				
Benzene	0.0816	0.00100	mg/kg wet				80-120		20	
Toluene	0.112	0.00200	n				80-120		20	
Ethylbenzene	0.112	0.00100	п				80-120		20	
Xylene (p/m)	0.230	0.00200	u				80-120		20	
Xylene (o)	0.104	0.00100	n				80-120		20	
Surrogate: 1,4-Difluorobenzene	58.1		ug/kg	60.0		96.8	75-125			· · · ·
Surrogate: 4-Bromofluorobenzene	51.3		"	60.0		85,4	75-125			
Matrix Spike (EA33102-MS1)	So	urce: 3A30002	2-01	Prepared &	k Analyzed	: 01/30/13				
Benzene	0.0841	0.00100	mg/kg dry		ND		80-120	_		-
Toluene	0.107	0.00200			ND		80-120			
Ethylbenzene	0.113	0.00100	"		ND		80-120			
Xylene (p/m)	0.233	0.00200	"		ND		80-120			
Xylene (0)	0.110	0.00100			ND		80-120			
Surrogate: 1,4-Difluorobenzene	67.4		ug/kg	60.0		112	75-125	··		
Surrogate: +-Bromofluorobenzene	61.6		"	60.0		103	75-125			

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Nova Safety & Environment	Project: SUG Chi	cken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number: [none]		
Midland TX, 79703	Project Manager: Jonathan	Repman	

Organics by GC - Quality Control

Permian Basin Environmental Lab

	···· -/- ···								
	Reporting		Spike	Source		%REC		RPD	
Analyte Resul	t Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch EA33102 - General Preparation (GC)

Matrix Spike Dup (EA33102-MSD1)	Sou	Source: 3A30002-01				01/30/13			
Benzene	0.0741	0.00100	mg/kg dry		ND		80-120	20	
Toluene	0.105	0.00200	и .		ND		80-120	20	
Ethylbenzene	0.111	0.00100			ND		80-120	20	
Xylene (p/m)	0.208	0.00200	"		ND		80-120	20	
Xylene (0)	0.106	0.00100			ND		80-120	20	
Surrogate: 1,4-Difluorobenzene	71.6		ug/kg	60.0		119	75-125		
Surrogate: 4-Bromofluorobenzene	66.1		"	60.0		110	75-125		

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA33002 - *** DEFAULT PREP_***										
Blank (EA33002-BLK1)				Prepared: ()1/29/13 A	nalyzed: 01	/30/13			
% Moisture	ND	0.1	%							
Duplicate (EA33002-DUP1)	Sou	rce: <u>3A29</u> 002-	-01	Prepared: (01/29/13 A	nalyzed: 01	/30/13			
% Moisture	8.9	0.1	%		9.1			2.22	20	
Duplicate (EA33002-DUP2)	Sou	rce: 3A29005-	-09	Prepared: (01/29/13 A	nalyzed: 01	/30/13	۰.		
% Moisture	2.0	0.1	%		2.0			0.00	20	
Batch EA33101 - *** DEFAULT PREP ***							. <u></u>			
Blank (EA33101-BLK1)				Prepared &	Analyzed:	01/31/13				
Chloride	ND	1.00	mg/kg wet							
LCS (EA33101-BS1)				Prepared &	z Analyzed:	01/31/13				
Chloride	9.93		mg/kg Wet	10.0		99.3	80-120			
LCS Dup (EA33101-BSD1)				Prepared &	z Analyzed:	01/31/13				
Chloride	9.87		mg/kg Wet	10.0		98.7	80-120	0.535	20	
Duplicate (EA33101-DUP1)	Sou	rce: 3A28001-	-01	Prepared &	z Analyzed:	01/31/13				
Chloride	279	1.09	mg/kg dry		278			0.644	20	
Matrix Spike (EA33101-MS1)	Source: 3A28001-01		Prepared &	Prepared & Analyzed: 01/31/13						
Chloride	396	1.09	mg/kg dry	109	278	108	80-120			
Matrix Spike (EA33101-MS2)	Source: 3A29005-03		Prepared &	Prepared & Analyzed: 01/31/13						
Chloride	95.2	1.01	mg/kg dry	88.4	2.94	104	80-120			

Permian Basin Environmental Lab

Nova Safety & Environment	Project: SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number: [none]	
Midland TX, 79703	Project Manager: Jonathan Repman	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

	Per	mian Ba	sin Envi	ronment	al Lab					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA33104 - 8015M										
Blank (EA33104-BLK1)		_		Prepared &	Analyzed:	01/30/13				
C6-C12	ND	25.0	mg/kg wet	-						
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	164		"	200		82.2	70-130			
Surrogate: o-Terphenyl	85.8		"	100		85.8	70-130			
LCS (EA33104-BS1)				Prepared &	Analyzed:	01/30/13				
C6-C12	1390	25.0	mg/kg wet	1500		92.8	75-125			
>C12-C28	1300	25.0	"	1500		86.9	75-125			
>C28-C35	ND	25.0	"	0.00			75-125			
Surrogate: 1-Chlorooctane	173		"	200		86.7	70-130			
Surrogate: o-Terphenyl	81.0			100		81.0	70-130			
LCS Dup (EA33104-BSD1)				Prepared &	z Analyzed:	01/30/13	•			
C6-C12	1460	25.0	mg/kg wet	1500		97.6	75-125	5.14	20	
>C12-C28	1330	25.0	"	1500		88.5	75-125	1.84	20	
>C28-C35	ND	25.0	11	0.00			75-125		20	
Surrogate: 1-Chlorooctane	172		"	200		86.0	70-130			
Surrogate: o-Terphenyl	83.1		. "	100		83.1	70-130			
Matrix Spike (EA33104-MS1)	Sour	ce: 3A29005	5-09 ·	Prepared &	Analyzed:	01/30/13				
C6-C12	1150	28.4	mg/kg dry	1140	ND	102	75-125			
>C12-C28	1370	28.4	n	1140	ND	120	75-125			
>C28-C35	ND	28.4	n	0.00	ND		75-125			
Surrogate: 1-Chlorooctane	140		"	114		123	70-130			
Surrogate: o-Terphenyl	72.8		n	56.8		128	70-130			
Matrix Spike Dup (EA33104-MSD1)	Sour	ce: 3A29005	5-09	Prepared &	Analyzed	: 01/30/13				
C6-C12	• 1150	28.4	mg/kg dry	1140	ND	101	75-125	0.278	20	
>C12-C28	1230	28.4	**	1140	ND	109	75-125	10.2	20	
>C28-C35	ND	28.4		0.00	ND		75-125		20	
Surrogate: 1-Chlorooctane	135		"	114	· · ·	119	70-130			
Surrogate: o-Terphenyl	64.8		"	56.8		114	70-130			

Permian Basin Environmental Lab

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

. Sanon Report Approved By: Date: 1/31/2013

Brent Barron, Laboratory Director/Technical Director

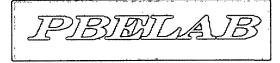
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Permian Basin Environmental Lab

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(làb use only)			Beginning Depth	Ending Depth	Sampled	Time Sampled	lered	fotal #. of Containers					Da la	Nume Other (Specify)	king Water SL=Sludge	Potable Specify Other	8015M	Cations (Ca, Mg, Na, K)	CI, SO4, Alkatinity)	SAR / ESP / CEC	vetais: As Ag ba uq ur Pp Hg Se Volatiles	atiles	BTEX 8021B/5030 or BTEX 8260 PC1	-	les E 300		RUSH TAT (Pre-Schedule) 2
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PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



Analytical Report

Prepared for:

Jonathan Repman Nova Safety & Environment 2057 Commerce Midland, TX 79703

Project: SUG Chicken Farm Project Number: [none] Location: Lea, Co New Mexico Lab Order Number: 3A30002



NELAP/TCEQ # T104704156-12-1

Report Date: 01/31/13

Nova Safety & Environment 2057 Commerce Midland TX, 79703

Project: SUG Chicken Farm Project Number: [none] Project Manager: Jonathan Repman

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ET-1 @ 13'	3A30002-01	Soil	01/29/13 09:00	01-30-2013 11:51

Nova Safety & Environment	Project:	SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number:	[none]	
Midland TX, 79703	Project Manager:	Jonathan Repman	

ET-1 @ 13'

nits Dilution vironmental La sg dry 1 sg dry 1 sg dry 1 sg dry 1 sg dry 1 sg dry 1 sg dry 1	Batch b EA33102 EA33102	Prepared 01/30/13 01/30/13 01/30/13 01/30/13 01/30/13	Analyzed	Method EPA 8021B EPA 8021B EPA 8021B EPA 8021B	Notes
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kg dry 1 kg dry 1	EA33102 EA33102	01/30/13 01/30/13	01/30/13	EPA 8021B	
kg dry 1	EA33102	01/30/13			
			01/30/13	EPA 8021B	
kg dry 🛛 I	EA33102	01/30/13			
		01/50/15	01/30/13	EPA 8021B	
75-125	EA33102	01/30/13	01/30/13	EPA 8021B	
75-125	EA33102	01/30/13	01/30/13	EPA 8021B	S-GC
kg dry 1	EA33101	01/31/13	01/31/13	EPA 300.0	
% 1	EA33103	01/30/13	01/31/13	% calculation	
	-				
kg dry l	EA33105	01/30/13	01/31/13	8015M	
kg dry l	EA33105	01/30/13	01/31/13	8015M	
kg dry 1	EA33105	01/30/13	01/31/13	8015M	
70-130	EA33105	01/30/13	01/31/13	8015M	
70-130	EA33105	01/30/13	01/31/13	8015M	
	[CALC]	01/30/13	01/31/13	8015M	
	xg dry 1 xg dry 1 70-130	sg dry 1 EA33105 sg dry 1 EA33105 70-130 EA33105 70-130 EA33105	sg dry 1 EA33105 01/30/13 sg dry 1 EA33105 01/30/13 70-130 EA33105 01/30/13 70-130 EA33105 01/30/13	sg dry 1 EA33105 01/30/13 01/31/13 sg dry 1 EA33105 01/30/13 01/31/13 70-130 EA33105 01/30/13 01/31/13 70-130 EA33105 01/30/13 01/31/13	Sig dry 1 EA33105 01/30/13 01/31/13 8015M sg dry 1 EA33105 01/30/13 01/31/13 8015M 70-130 EA33105 01/30/13 01/31/13 8015M 70-130 EA33105 01/30/13 01/31/13 8015M

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Nova Safety & Environment	Project: SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number: [none]	
Midland TX, 79703	Project Manager: Jonathan Repman	

Organics by GC - Quality Control

Permian	Basin	Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA33102 - General Preparation (GC)							•			
Blank (EA33102-BLK1)				Prepared &	Analyzed	01/30/13				
Benzene	ND	0.00100	mg/kg wet	Tropujou d	- Trindiy 2.0d.	01150/15				
Toluene	ND	0.00200	н							
Ethylbenzene	ND	0.00100	n							
Xylene (p/m)	ND	0.00200	. "							
Xylene (o)	ND	0.00100								
Surrogate: 1,4-Difluorobenzene	70.7		ug/kg	60.0		118	75-125			
Surrogate: 4-Bromofluorobenzene	42.8		"	60.0		71.3	75-125			S-G
				Prepared &	Analyzad	01/20/12				
LCS (EA33102-BS1)	0.0824	0.00100	mg/kg wet	Prepared &	2 Analyzeu	. 01/30/13	80-120			
Foluene	0.0824	0.00100	mg/kg wet				80-120			
Ethylbenzene	0.110	0.00200	14				80-120			
Xylene (p/m)	0.112	0.00100	н				80-120			
Xylene (o)	0.104	0.00200	*				80-120 80-120			
		0.00100		(0.0		02.2				
Surrogate: 1,4-Difluorohenzene	55.4		ug/kg "	60.0 60.0		92.3 81.4	75-125 75-125			
Surrogate: 4-Bromofluorobenzene	48.9			00.0		01.4	/3-123			
LCS Dup (EA33102-BSD1)				Prepared &	2 Analyzed	01/30/13				
Benzene	0.0816	0.00100	mg/kg wet				80-120		20	
Foluene	0.112	0.00200	11				80-120		20	
Ethylbenzene	0.112	0.00100	31				80-120		20	
Xylene (p/m)	0.230	0.00200					80-120		20	
Xylene (o)	0.104	0.00100	"				80-120		20	
Surrogate: 1,4-Difluorobenzene	58.1		ug/kg	60.0		96.8	75-125			
Surrogate: 4-Bromofluorobenzene	51.3		"	60.0		85.4	75-125			
Matrix Spike (EA33102-MS1)	So	arce: 3A30002	2-01	Prepared &	z Analyzed	: 01/30/13				
Benzene	0.0841	0.00100	mg/kg dry		ND		80-120			
Foluene	0.107	0.00200	"		ND		80-120			
Ethylbenzene	0.113	0.00100	"		ND		80-120			
Xylene (p/m)	0.233	0.00200			ND		80-120			
Xylene (o)	0.110	0.00100	"		ND		80-120			
Surrogate: 1,4-Difluorohenzene	67.4		ug/kg	60.0		112	75-125			
Surrogate: 4-Bromofluorobenzene	61.6		"	60.0		103	75-125			

Permian Basin Environmental Lab

Nova Safety & Environment	Project: SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number: [none]	
Midland TX, 79703	Project Manager: Jonathan Repman	

Organics by GC - Quality Control

Permian Basin Environmental Lab

	- <u></u> ,					· · · ·			·,•	
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch EA33102 - General Preparation (GC)

Matrix Spike Dup (EA33102-MSD1)	Sou	rce: 3A30002	-01	Prepared &	Analyzed:	01/30/13		
Benzene	0.0741	0.00100	mg/kg dry		ND		80-120	20
Toluene	0.105	0.00200			ND		80-120	20
Ethylbenzene	0.111	0.00100			ND		80-120	20
Xylene (p/m)	0.208	0.00200	"		ND		80-120	20
Xylene (0)	0.106	0.00100	n		ND		80-120	20
Surrogate: 1,4-Difluorobenzene	71.6	· · · · ·	ug/kg	60.0		119	75-125	
Surrogate: 4-Bromofluorohenzene	66.1		"	60.0		110	75-125	

Permian Basin Environmental Lab

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA33101 - *** DEFAULT PREP ***										
Blank (EA33101-BLK1)				Prepared &	z Analyzed:	01/31/13				
Chloride	ND	1.00	mg/kg wet							
LCS (EA33101-BS1)				Prepared &	Analyzed:	01/31/13				
Chloride	9.93		mg/kg Wet	10.0		99.3	80-120			
LCS Dup (EA33101-BSD1)				Prepared 8	Analyzed:	01/31/13	•			
Chloride	9.87	·	mg/kg Wet	10.0		98.7	80-120	0.535	20 .	
Duplicate (EA33101-DUP1)	Sour	ce: 3A28001	-01	Prepared &	z Analyzed:	01/31/13				
Chloride	279	1.09	mg/kg dry		278			0.644	20	
Matrix Spike (EA33101-MS1)	Sour	ce: 3A28001	-01	Prepared &	Analyzed:	01/31/13				
Chloride	396	1.09	mg/kg dry	109	278	108	80-120			
Matrix Spike (EA33101-MS2)	Sour	ce: 3A29005	5-03	Prepared &	Analyzed:	01/31/13				
Chloride	95.2	1.01	mg/kg dry	88.4	2.94	104	80-120			
Batch EA33103 - *** DEFAULT PREP ***										
Blank (EA33103-BLK1)		-		Prepared:)1/30/13 A	nalyzed: 01	/31/13			
% Moisture	ND	0.1	%							
Duplicate (EA33103-DUP1)	Sour	ce: 3A30001	-01	Prepared: ()1/30/13 A	nalyzed: 01	/31/13			
% Moisture	5.6	0.1	%		5.0			11.3	20	

Permian Basin Environmental Lab

Nova Safety & Environment	Project: SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number: [none]	
Midland TX, 79703	Project Manager: Jonathan Repman	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

rermian basin Environmental Lad	P	Permian	Basin	Environmental Lab
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		Reporting	•••	Spike	Source	4/DEC	%REC	555	RPD	NL /
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA33105 - 8015M										
Blank (EA33105-BLK1)				Prepared &	Analyzed:	01/30/13				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	57.6		"	50.0		115	70-130			
LCS (EA33105-BS1)				Prepared 8	2 Analyzed:	01/30/13				
C6-C12	840	25.0	mg/kg wet	1000		84.0	75-125			
>C12-C28	902	25.0	"	1000		90.2	75-125			
>C28-C35	ND	25.0	"	0.00			75-125			
Surrogate: 1-Chlorooctane	99.6		11	100		99.6	70-130	_		
Surrogate: o-Terphenyl	47.0		n	50.0		94.1	70-130			
LCS Dup (EA33105-BSD1)				Prepared &	z Analyzed:	01/30/13				
C6-C12	872	25.0	mg/kg wet	1000		87.2	75-125	3.78	20	
>C12-C28	919	25.0	"	1000		91.9	75-125	1.88	20	
>C28-C35	ND	25.0	**	0.00			75-125		20	
Surrogate: 1-Chlorooctane	102		n	100		102	70-130			
Surrogate: o-Terphenyl	47.2		n	50.0		94.5	70-130			
Matrix Spike (EA33105-MS1)	Sou	rce: 3A30002	2-01	Prepared: (01/30/13 A	nalyzed: 01				
C6-C12	1270	32.9	mg/kg dry	1320	ND	96.6	75-125			
>C12-C28	1360	32.9	"	1320	ND	104	75-125			
>C28-C35	ND	32.9		0.00	ND		75-125			
Surrogate: 1-Chlorooctane			"	132		129	70-130			
Surrogate: o-Terphenyl	82.5		"	65.8		125	70-130			
Matrix Spike Dup (EA33105-MSD1)	Sou	rce: 3A30002	2-01	Prepared: ()1/30/13 A	nalyzed: 01	/31/13			
C6-C12	1350	32.9	mg/kg dry	1320	ND	103	75-125	6.28	20	
>C12-C28	1440	32.9	11	1320	ND	109	75-125	5.42	20	
>C28-C35	ND	32.9		0.00	ND		75-125		20	
Surrogate: 1-Chlorooctane	158		"	132		120	70-130			
Surrogate: o-Terphenyl	71.8		"	65.8		109	70-130			

Permian Basin Environmental Lab

Nova Safety & Environment	Project: SUG Chi	cken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number: [none]		
Midland TX, 79703	Project Manager: Jonathan	Repman	

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

DET Analyte DETECTED

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

mor Date: 1/31/2013

Report Approved By:

Brent Barron, Laboratory Director/Technical Director

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If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab

Project Manager: Jonathan R	epman						Perm 1001 Midla	4 S.	Cou	nty l	Road	121		b, LF		Proje	ct Na	ame:					•	51-41 hick		arm		
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(Ation osen que) # gry FIELD CODE		Beginning Depth	Ending Depth	Date Sampled		Time Sampled	Field Fittered	otal #. of Containers	HNO3	HCI	H ₂ SO ₄	NaUH Na ₂ S ₂ O ₃	None	Other (Specify)	DW-Drinking Water SL=Studge GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other TDH- 418 1 8015M 9	TX 1005 TX 10	Na, K)	Anlons (Cl, SO4, Alkalinity)	SAR / ESP / CEC Metals: As An Ba Cd Cr Ph Hn Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300		KUSH IAI (Pre-Schedule) 2 Standard TAT
ET-1 @ 13'		<u>, ao</u>	<u> </u>	1/29/2	013	9:00		1					-		<u>s</u>		- -	0	<u> </u>	<u>s ≥</u>	<u>: ></u>	<u></u>	X	<u> </u>		x	╞	X
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PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



Analytical Report

Prepared for:

Jonathan Repman Nova Safety & Environment 2057 Commerce Midland, TX 79703

Project: SUG Chicken Farm Project Number: [none] Location: Lea Co. New Mexico

Lab Order Number: 3B13001



NELAP/TCEQ # T104704156-12-1

Report Date: 02/15/13

Nova Safety & Environment	Project: S	SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number: [r	none]	
Midland TX, 79703	Project Manager: Jo	onathan Repman	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WW-3 @ 13'	3B13001-01	Soil	02/12/13 15:30	02-13-2013 09:25

Nova Safety & Environment	`	Project: SUG Chicken	Farm	Fax: (432) 520-7701
2057 Commerce		Project Number: [none]		
Midland TX, 79703		Project Manager: Jonathan Repr	nan	

WW-3 @ 13'

3B13001-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	P	ermian Basi	n Environn	nental La	b				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB31301	02/13/13	02/13/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB31301	02/13/13	02/13/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB31301	02/13/13	02/13/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB31301	02/13/13	02/13/13	EPA 8021B	
Xylene (0)	ND	0.00100	mg/kg dry	1	EB31301	02/13/13	02/13/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		114%	75-1	25	EB31301	02/13/13	02/13/13	EPA 8021B	
Surrogate: 4-Bromofluorohenzene		76.7 %	75-1	25	EB31301	02/13/13	02/13/13	EPA 8021B	
General Chemistry Parameters by El	PA / Standard Metho	ds				<u>-</u>			
Chloride	169	1.05	mg/kg dry	1	EB31503	02/15/13	02/15/13	EPA 300.0	
% Moisture	5.0	0.1	%	1	EB31401	02/13/13	02/14/13	% calculation	
<u>Total Petroleum Hydrocarbons C6-C</u>	35 by EPA Method 8	<u>015M</u>							
C6-C12	ND	26.3	mg/kg dry	1	EB31501	02/14/13	02/14/13	8015M	
>C12-C28	64.4	26.3	mg/kg dry	I	EB31501	02/14/13	02/14/13	8015M	
>C28-C35	ND	26.3	mg/kg dry	1	EB31501	02/14/13	02/14/13	8015M	
Surrogate: 1-Chlorooctane		89.5 %	70-1	30	EB31501	02/14/13	. 02/14/13	8015M	
Surrogate: o-Terphenyl		103 %	70-1	30	EB31501	02/14/13	02/14/13	8015M	
Total Hydrocarbon nC6-nC35	64,4	26.3	mg/kg dry	1	[CALC]	02/14/13	02/14/13	8015M	

Permian Basin Environmental Lab

Nova Safety & Environment	Project:	SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number:	[none]	
Midland TX, 79703	Project Manager:	Jonathan Repman	

Organics by GC - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB31301 - General Preparation (GC)										

Blank (EB31301-BLK1)				Prepared &	Analyzed:	02/13/13			•	
Benzene	ND	0.00100	mg/kg wet		•					
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	и							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	71.8		ug/kg	60.0		120	75-125			
Surrogate: 4-Bromofluorobenzene	39.8		"	60.0		66.3	75-125			S-GC
LCS (EB31301-BS1)				Prepared &	Analyzed:	02/13/13				
Benzene	0.0801	0.00100	mg/kg wet	0.100		80.1	80-120			
Toluene	0.115	0.00200	11	0.100		115	80-120			
Ethylbenzene	0.114	0.00100		0.100		114	80-120			
Xylene (p/m)	0.231	0.00200	"	0.200		116	80-120			
Xylene (0)	0,105	0.00100		0.100		105	80-120			
Surrogate: 1,4-Difluorobenzene	69.1		ug/kg	60.0		115	75-125			
Surrogate: 4-Bromofluorobenzene	58.7		"	60.0		97.8	75-125			
LCS Dup (EB31301-BSD1)				Prepared &	Analyzed:	02/13/13				
Benzene	0.0818	0.00100	mg/kg wet	0.100		81.8	80-120	2.13	20	
Toluene	0.110	0.00200		0.100		110	80-120	3.66	20	
Ethylbenzene	0.109	0.00100	н	0.100		109	80-120	3.90	20	
Xylene (p/m)	0.223	0.00200	"	0.200		111	80-120	3.75	20	
Xylene (o)	0.102	0.00100	*	0.100		102	80-120	2.88	20	
Surrogate: 1,4-Difluorohenzene	69.1		ug/kg	60.0		115	75-125			
Surrogate: 4-Bromofluorobenzene	58.8		"	60.0		97.9	75-125			
Matrix Spike (EB31301-MS1)	Sou	rce: 3B13001	-01	Prepared &	Analyzed:	02/13/13				
Benzene	0.0481	0.00100	mg/kg dry	0.105	ND	45.7	80-120			QM-0.
Toluene	0.0653	0.00200	"	0.105	ND	62.1	80-120			QM-05
Ethylbenzene	0.0659	0.00100	n	0.105	ND	62.6	80-120			QM-0
Xylene (p/m)	0.131	0.00200	Ħ	0.211	ND	62.4	80-120			QM-0:
Xylene (o)	0.0620	0.00100		0.105	ND	58.9	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	68.2		ug/kg	60.0		114	75-125			
Surrogate: 4-Bromofluorobenzene	55.6		"	60.0		92.6	75-125			

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Nova Safety & Environment	Project: SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number: [none]	
Midland TX, 79703	Project Manager: Jonathan Repman	· .

Organics by GC - Quality Control

Permian Basin Environmental Lab

· · · · · · · · · · · · · · · · · · ·										
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Levei	Result	%REC	Limits	RPD	Limit	Notes

Batch EB31301 - General Preparation (GC)

Matrix Spike Dup (EB31301-MSD1)	Sou	rce: 3B13001	-01	Prepared &	Analyzed	02/13/13				
Benzene	0.0558	0.00100	mg/kg dry	0.105	ND	53.0	80-120	14.8	20	QM-05
Toluene	0.0782	0.00200	"	0.105	ND	74.3	80-120	17.9	20	QM-05
Ethylbenzene	0.0797	0.00100	"	0.105	ND	75.7	80-120	19.0	20	QM-05
Xylene (p/m)	0.161	0.00200	"	0.211	ND	76.6	80-120	20.4	20	QM-05
Xylene (o)	0.0751	0.00100	"	0.105	ND	71.3	80-120	19.2	20	QM-05
Surrogate: 1,4-Difluorobenzene	68.8		ug/kg	60.0		115	75-125			
Surrogate: 4-Bromofluorobenzene	60.9		"	60.0		101	75-125			

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10014 SCR 1213 Midland, TX 79706 432-686-7235

Page 5 of 9

Nova Safety & Environment		P	Project: SUG	G Chicken Fa	arm				Fax: (432)	520-7701
2057 Commerce		Project N	umber: [noi	ne]						
Midland TX, 79703		Project Ma	anager: Jona	athan Repma	n					
General	Chemistry Para	meters by	y EPA / S	Standard	Method	ls - Qua	lity Cont	trol		
	Pe	rmian Ba	sin Envii	onmenta	al Lab					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB31401 - *** DEFAULT PR	EP ***									
Blank (EB31401-BLK1)				Prepared: 0	2/13/13 A	nalyzed: 02	/14/13			
% Moisture	ND	0.1	%							
Duplicate (EB31401-DUP1)	Sou	rce: 3B13001	-01	Prepared: 0	2/13/13 A	nalyzed: 02	/14/13			
% Moisture	4.0	0.1	%		5.0			22.2	20	R
Batch EB3 <u>1503 - *** DEFAULT PR</u>	EP ***									
Blank (EB31503-BLK1)				Prepared &	Analyzed:	02/15/13				
Chloride	ND	1.00	mg/kg wet							
LCS (EB31503-BS1)				Prepared &	Analyzed:	02/15/13				
Chloride	10.3		mg/kg Wet	10.0		103	80-120			
LCS Dup (EB31503-BSD1)				Prepared &	: Analyzed:	02/15/13				
Chloride	10.3		mg/kg Wet	10.0		103	80-120	0.553	20	
Duplicate (EB31503-DUP1)	Sou	rce: 3B13001	1-01	Prepared &	Analyzed	02/15/13				
Chloride	169	1.05	mg/kg dry		169			0.0498	20	
Matrix Spike (EB31503-MS1)	Sou	rce: 3B13001	1-01	Prepared &	: Analyzed:	02/15/13				
Chloride	266	1.05	mg/kg dry	92.1	169	106	80-120			

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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB31501 - 8015M		<u> </u>							_	
Blank (EB31501-BLK1)				Prepared &	z Analyzed:	02/14/13				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0								
>C28-C35	ND	25.0								
Surrogate: 1-Chlorooctane	83.1	<u> </u>	"	100		83.1	70-130		-	
Surrogate: o-Terphenyl	48. l		"	50.0		96.3	70-130			
LCS (EB31501-BS1)				Prepared &	ż Analyzed:	02/14/13				
C6-C12	805	25.0	mg/kg wet	1000		80.5	75-125			
>C12-C28	766	25.0	"	1000		76.6	75-125			
>C28-C35	ND	25.0	"	0.00			75-125			
Surrogate: 1-Chlorooctane	83.6		"	100		83.6	70-130			
Surrogate: o-Terphenyl	39.8		"	50.0		79.6	70-130			
LCS Dup (EB31501-BSD1)				Prepared &	z Analyzed:	02/14/13				
C6-C12	815	25.0	mg/kg wet	1000		81.5	75-125	1,23	20	
>C12-C28	799	25.0	н	1000		79.9	75-125	4.17	20	
>C28-C35	ND	25.0	*	0.00			75-125		20	
Surrogate: 1-Chlorooctane	85.8	<u></u>	"	100		85.8	70-130			
Surrogate: o-Terphenyl	40.5		"	50.0		80.9	70-130			
Matrix Spike (EB31501-MS1)	Sour	rce: 3B14001	-01	Prepared &	z Analyzed:	02/14/13				
C6-C12	986	26.0	mg/kg dry	1040	ND	94.7	75-125			
>C12-C28	846	26.0	н	1040	32.5	78. i	75-125			
>C28-C35	ND	26.0		0.00	ND		75-125			
Surrogate: 1-Chlorooctane	89.0		n	104		85.4	70-130			
Surrogate: o-Terphenyl	42.4		"	52.1		81.4	70-130			
Matrix Spike Dup (EB31501-MSD1)	Sour	rce: 3B14001	-01	Prepared: ()2/14/13 Ai	nalyzed: 02	/15/13			
C6-C12	1030	26.0	mg/kg dry	1040	ND	98.7	75-125	4.19	20	
>C12-C28	842	26.0	"	1040	32.5	77.7	75-125	0.511	20	
>C28-C35	ND ·	26.0		0.00	ND		75-125		20	
Surrogate: 1-Chlorooctane	96.6		"	104		92.8	70-130		-	
Surrogate: o-Terphenyl	44.7		"	52.1		85.8	70-130			

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Nova Safety & Environment	Project:	SUG Chicken Farm	•	Fax: (432) 520-7701
2057 Commerce	Project Number:	[none]		
Midland TX, 79703	Project Manager:	Jonathan Repman		

Notes and Definitions

- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- R3 The RPD exceeded the acceptance limit due to sample matrix effects.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported

dry Sample results reported on a dry weight basis

- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike

Dup Duplicate

Report Approved By:

Bur Buron Date:

2/15/2013

Brent Barron, Laboratory Director/Technical Director

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PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



Analytical Report

Prepared for:

Jonathan Repman Nova Safety & Environment 2057 Commerce Midland, TX 79703

Project: SUG Chicken Farm Project Number: [none] Location: Lea, Co., New Mexico

Lab Order Number: 3B14001



NELAP/TCEQ # T104704156-12-1

Report Date: 02/15/13

Nova Sařety & EnvironmentProject:SUG Chicken Farm2057 CommerceProject Number:[none]Midland TX, 79703Project Manager:Jonathan Repman

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ET-1A @ 13'	3B14001-01	Soil	02/13/13 15:00	02-14-2013 09:20

Nova Safety & Environment	Project: SUG Chicken Farm	Fax: (432) 520-7701
2057 Commerce	Project Number: [none]	
Midland TX, 79703	Project Manager: Jonathan Repman	

ET-1A @ 13'

3B14001-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Per	mian Basin	Environn	nental Lab	,				
General Chemistry Parameters by	<u>y EPA / Standard Methods</u>								
Chloride	51.1	1.04	mg/kg dry	1	EB31503	02/15/13	02/15/13	EPA 300.0	
% Moisture	4.0	0.1	%	1 .	EB31502	02/14/13	02/15/13	% calculation	

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	Nova Safety & Environment		Project:	SUG Chicken Farm	Fax: (432) 520-7701
1	2057 Commerce		Project Number:	[none]	
	Midland TX, 79703	,	Project Manager:	Jonathan Repman	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB31502 - *** DEFAULT PREP ***				<u></u>						
Blank (EB31502-BLK1)				Prepared: 6)2/14/13 A	nalyzed: 02	/15/13			
% Moisture	ND	0.1	%						•	
Duplicate (EB31502-DUP1)	Sou	ce: 3B14001	-01	Prepared: ()2/14/13 A	nalyzed: 02	/15/13			
% Moisture	4.0 .	0.1	%		4.0			0.00	20	
Batch EB31503 - *** DEFAULT PREP ***										
Blank (EB31503-BLK1)				Prepared &	Analyzed:	02/15/13				
Chlotide	ND	1.00	mg/kg wet							
LCS (EB31503-BS1)				Prepared &	Analyzed:	02/15/13		·		
Chloride	10.3		mg/kg Wet	10.0		103	80-120			
LCS Dup (EB31503-BSD1)	-			Prepared &	z Analyzed:	02/15/13				
Chloride	10.3		mg/kg Wet	10.0		103	80-120	0.553 .	20	
Duplicate (EB31503-DUP1)	Sou	rce: 3B13001	-01	Prepared &	Analyzed:	02/15/13				
Chloride	169	1.05	mg/kg dry		169			0.0498	20	
Matrix Spike (EB31503-MS1)	Sou	rce: 3B13001	-01	Prepared &	Analyzed:	02/15/13				
Chloride	266	1.05	mg/kg dry	92.1	169	106	80-120			

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Page 4 of 6

Nova Safety & Environment 2057 Commerce Midland TX, 79703 Project: SUG Chicken Farm Project Number: [none] Project Manager: Jonathan Repman

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By:

Bun Bunon _____ Date: _____ 2/15/2013

Brent Barron, Laboratory Director/Technical Director

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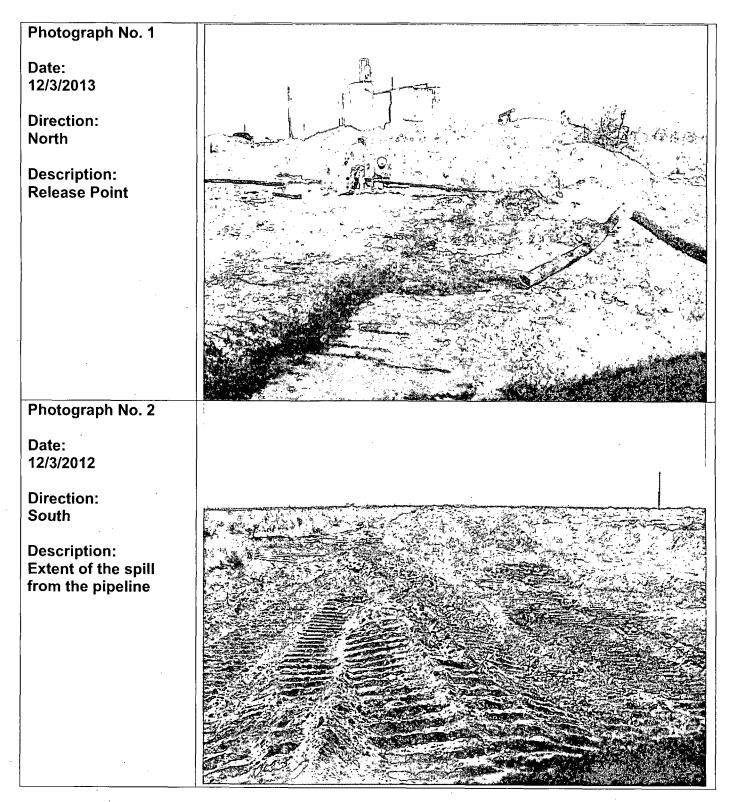
The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

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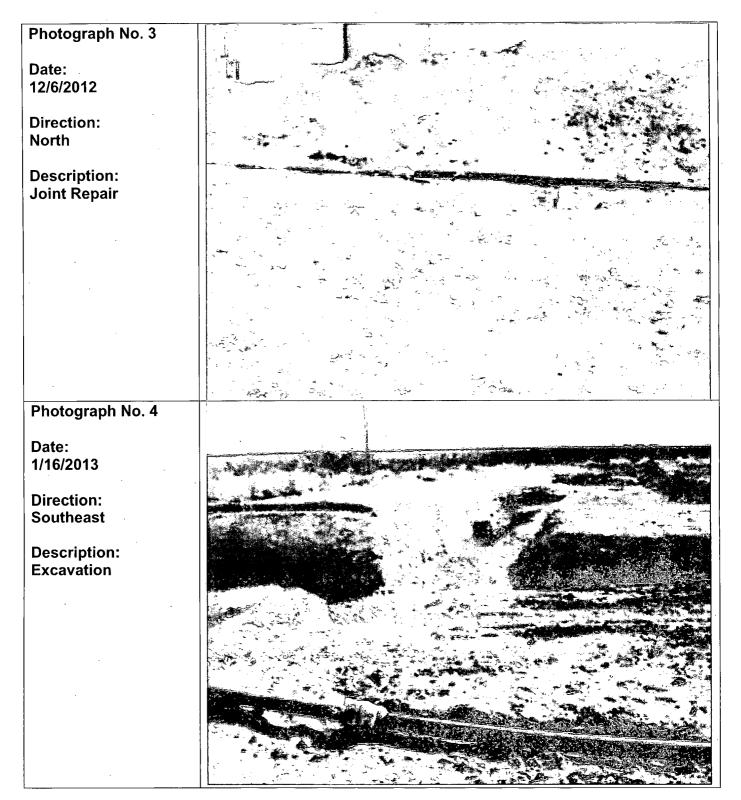
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Appendix B Photographs

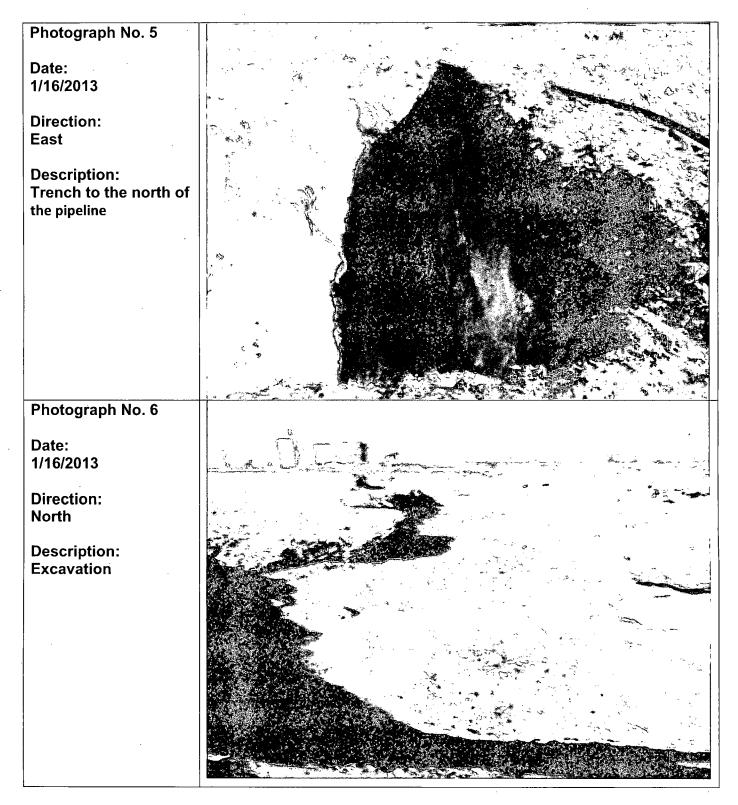




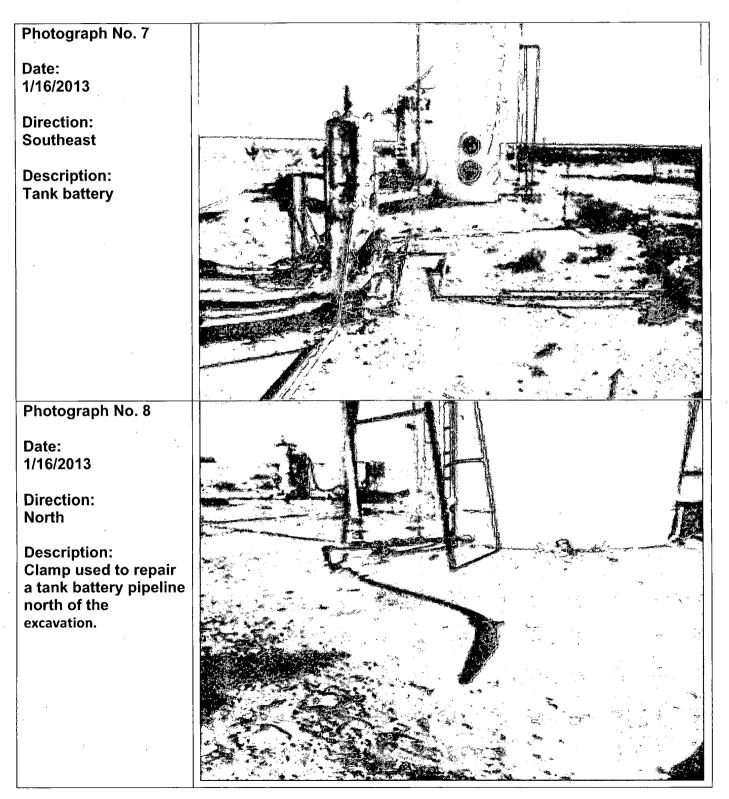








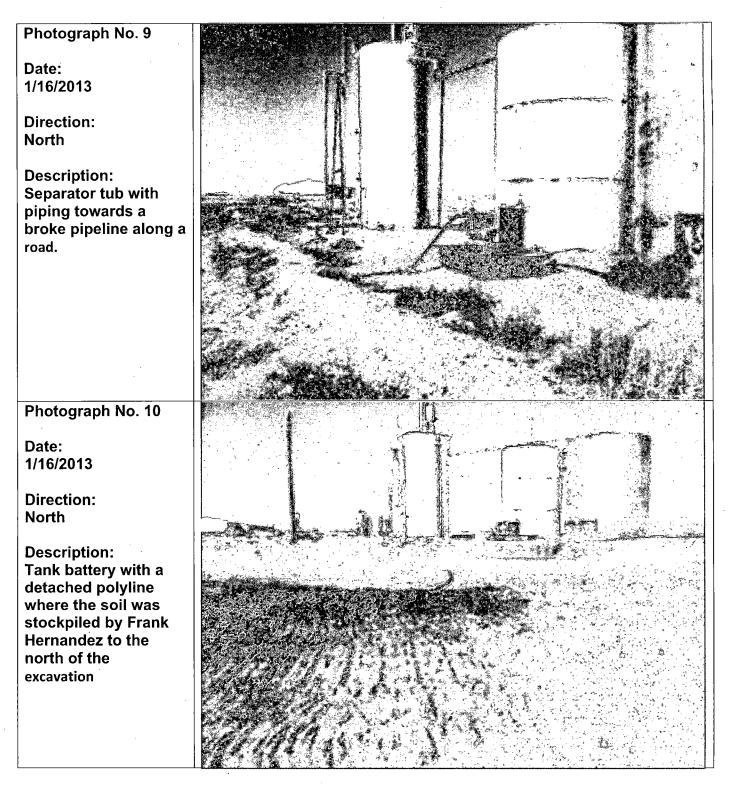




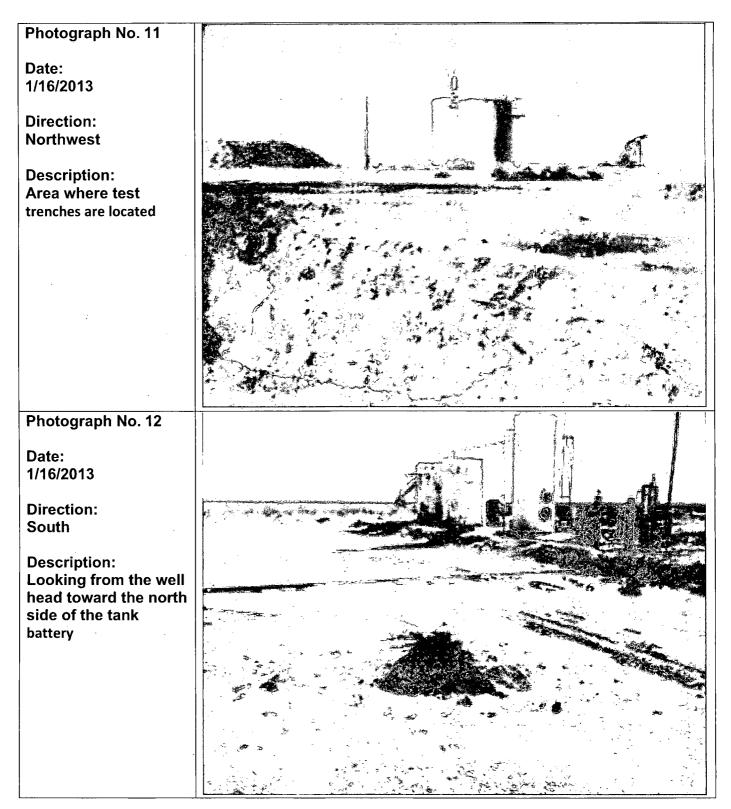


Photographic Documentation

Client: Southern Union Gas Services (SUGS) Project Name: Chicken Farm 6 Inch Lateral



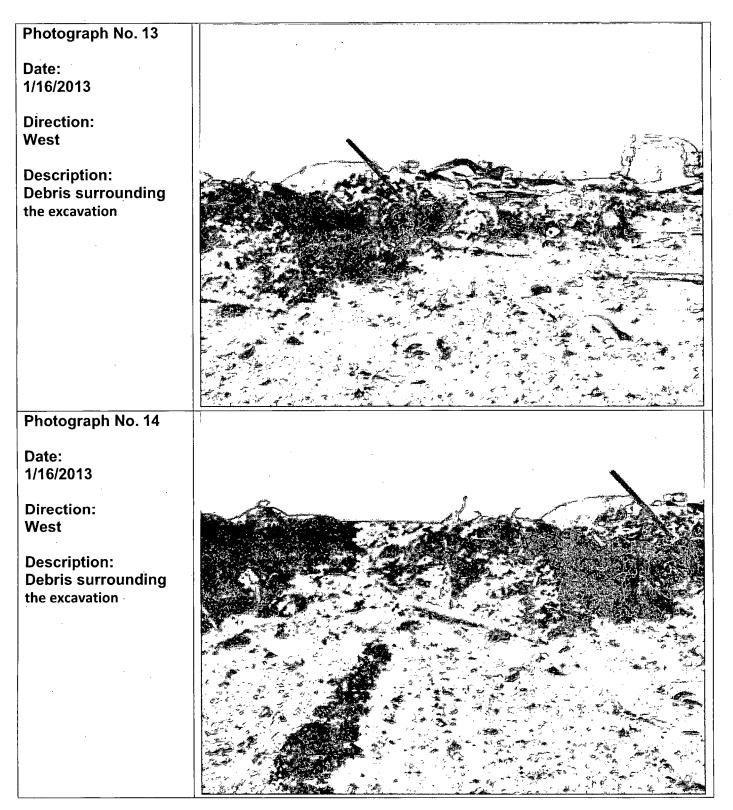




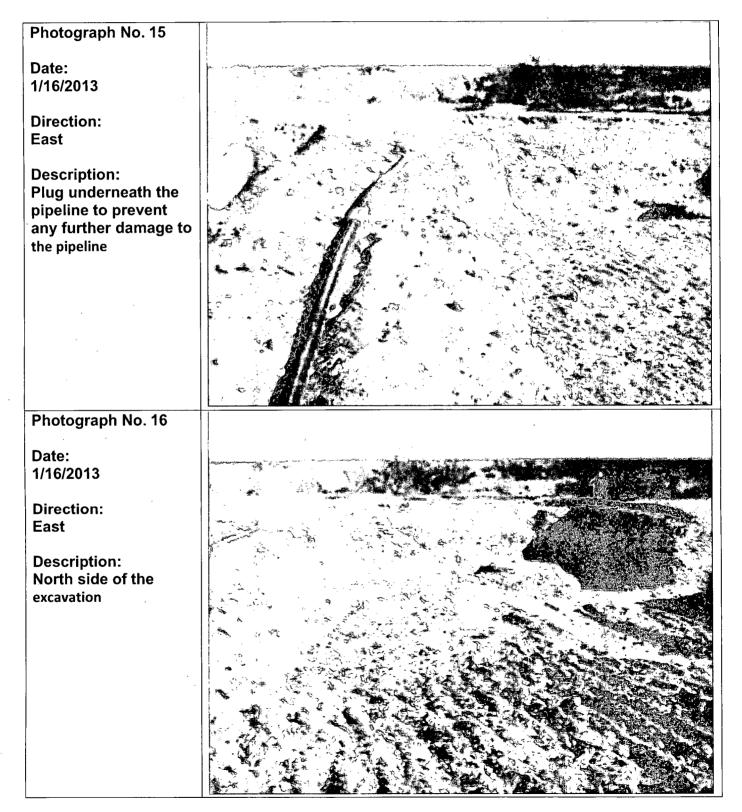


Photographic Documentation

Client: Southern Union Gas Services (SUGS) Project Name: Chicken Farm 6 Inch Lateral



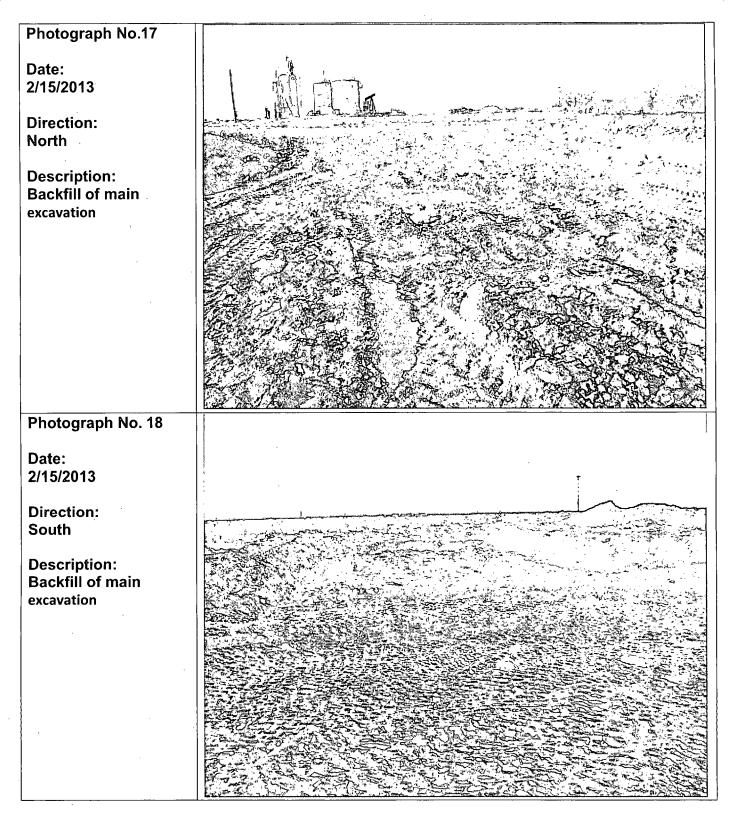






Photographic Documentation

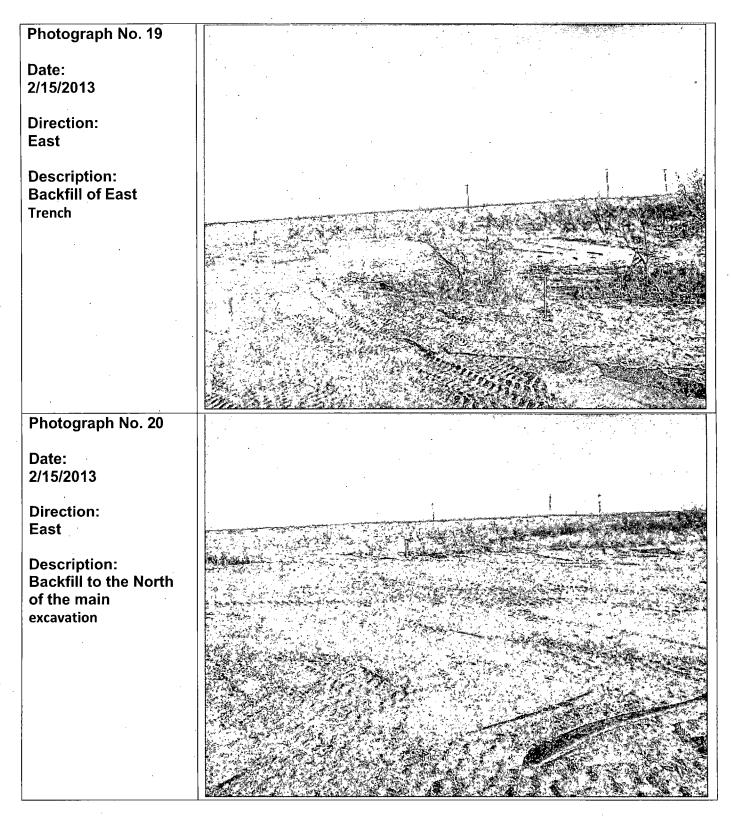
Client: Southern Union Gas Services (SUGS) Project Name: Chicken Farm 6 Inch Lateral





Photographic Documentation

Client: Southern Union Gas Services (SUGS) Project Name: Chicken Farm 6 Inch Lateral



Appendix C Soil Disposal Manifests

	NCE SERVICES ox 1737 Eunice, New Mexico 8823 (575) 394-2511	•	TICKET No. 2	35715
EASE OPERATOR/SHIPPER	/COMPANY: ≤ 116	· .] .
EASE NAME: 10"	ICF			· . ·
RANSPORTER COMPANY:	Aarons	TRIK	TIME	11:32 AMYPM
DATE: 2/12/2013	VEHICLE NO: 254	GENERATO		ternley
HARGE TO:	SLIG	RIG NA		
		FMATERIAL		
	-	Drilling Fluids	[] Rinsate	
	L	Contaminated Soil	[] Jet Out	
[] So	lids []	BS&W Content:	[] Call Out	
Description:	010			
RC or API #			C-133#	
OLUME OF MATERIAL	BBLS.	1 YARD) : C	1
TO TIME, 40 U.S.C. § 69 THERETO, BY VIRTUE O ASSOCIATED WITH THI GEOTHERMAL ENERGY. ALSO AS A CONDITIO TICKET. TRANSPORTE OPERATOR/SHIPPER TO FACILITY FOR DISPOSA THIS WILL CERTIFY to	N TO SUNDANCE SERVICES, INC R REPRESENTS AND WARI O TRANSPORTER IS NOW DELI L. hat the above Transporter loaded	D SAF. CODE § 361.001 e DRILLING FLUIDS, PRODU T OR PRODUCTION OF SACCEPTANCE OF THE P RANTS THAT ONLY T VERED BY TRANSPORTE	seq., AND REGULATI JCED WATERS, AND C CRUDE OIL OR NATU MATERIALS SHIPPED W HE MATERIAL DE R TO SUNDANCE SE by this Transporter Sta	ONS RELATED DTHER WASTE JRAL GAS OR VITH THIS JOB LIVERED BY RVICES, INC.'S
	n, and that it was tendered by th this load, and that the material			no additional
		$\langle \rangle$		
FACILITY REPRESENT	(SIGNATURE)	Konu		
White - S	and a second to be a second to be	indance Acct #1	Pink - Transporter	
	Re-order from: TOTALLY SHARP ADVERTISI	NG • 432-586-5401 • www.PromoSuj	permarket.com	

P.O. Box 1737 Eunice, New Mex (575) 394-2511	•	TICKET No. 235642
LEASE OPERATOR/SHIPPER/COMPANY: S	IG	
LEASE NAME: LOY LCF		
TRANSPORTER COMPANY: A 45	Trucking	TIME 8:08 AM/PM
DATE: 2.12.2013 VEHICLE NO: 5	GENER/	MAN'S NAME: C. Stonley
CHARGE TO: SUG		NAME D NUMBER
T	YPE OF MATERIAL	
[] Production Water	[] Drilling Fluids	[] Rinsate
[] Tank Bottoms	😡 Contaminated Soil	[] Jet Out
[] Solids	[] BS&W Content:	[] Call Out
Description:		· · · · · · · · · · · · · · · · · · ·
RRC or API #		C-133#
VOLUME OF MATERIAL [] BBLS	: YARD	\mathcal{X} : \mathcal{Y}
THERETO, BY VIRTUE OF THE EXEMPTION AFF ASSOCIATED WITH THE EXPLORATION, DEVEL GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVI TICKET. TRANSPORTER REPRESENTS AND OPERATOR/SHIPPER TO TRANSPORTER IS NO FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transport above described location, and that it was tended materials were added to this load, and that the r DRIVER:	LOPMENT OR PRODUCTION C CES, INC.'S ACCEPTANCE OF TH WARRANTS THAT ONLY W DELIVERED BY TRANSPOR er loaded the material represent red by the above described ship	OF CRUDE OIL OR NATURAL GAS OR E MATERIALS SHIPPED WITH THIS JOB THE MATERIAL DELIVERED BY TER TO SUNDANCE SERVICES, INC.'S red by this Transporter Statement at the oper. This will certify that no additional
(SIGNATURE)	Romera	Pink - Transporter
	hary - Sundance Acct #1 ADVERTISING • 432-586-5401 • www.Promo	-

P.O. Box 1737 Eunice, New Mey (575) 394-2511	kico 88231	TICKET No.	35669
LEASE OPERATOR/SHIPPER/COMPANY: 57	1 <u>G</u>	·	·
LEASE NAME: LO' LCF		 	and the second second
DATE: 7 17 70 17 VEHICLE NO:	TRK		9:54 AM/PM
DATE: 2.12.2013 VEHICLE NO: 5	^	MAN'S NAME:	stanley
CHARGE TO: SIG	RIG NA	ame Iumber	A
Т	YPE OF MATERIAL		
[] Production Water	[] Drilling Fluids	[] Rinsate	
[] Tank Bottoms	X Contaminated Soil	[] Jet Out	
[] Solids	BS&W Content:	[] Call Out	
Description:		,	
RRC or API #	· · · · · · · · · · · · · · · · · · ·	C-133#	
VOLUME OF MATERIAL [] BBLS	: 1/1 YARD 2		[]
TO TIME, 40 U.S.C. § 6901, et seq., THE NM HE, THERETO, BY VIRTUE OF THE EXEMPTION AFF ASSOCIATED WITH THE EXPLORATION, DEVE GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERV TICKET. TRANSPORTER REPRESENTS ANI OPERATOR/SHIPPER TO TRANSPORTER IS NO	ORDED DRILLING FLUIDS, PROD LOPMENT OR PRODUCTION OF ICES, INC.'S ACCEPTANCE OF THE D WARRANTS THAT ONLY	UCED WATERS, ANE CRUDE OIL OR NA MATERIALS SHIPPEE THE MATERIAL [O OTHER WASTE TURAL GAS OR WITH THIS JOB DELIVERED BY
FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transport above described location, and that it was tend materials were added to this load, and that the DRIVER: (SIGNATURE) FACILITY REPRESENTATIVE:	er loaded the material represented ered by the above described shipp	er. This will certify th	Statement at the at no additional
FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transport above described location, and that it was tend materials were added to this load, and that the DRIVER: (SIGNATURE) FACILITY REPRESENTATIVE: (SIGNATURE)	er loaded the material represented ered by the above described shipp	er. This will certify th	at no additional

P.O. Box	CE SERVI 1737 Eunice, New Mex (575) 394-2511		TICKET No. 2356	40
LEASE OPERATOR/SHIPPER/CO	DMPANY: SI	IG	<u>.</u>	
LEASE NAME:	e" LCF		· · · · · · · · · · · · · · · · · · ·	
TRANSPORTER COMPANY:	Alvide	- eZ.	TIME 8:02	
DATE: 2-12.2013 V	EHICLE NO: A	GENE	RATOR COMPANY (1, Struite	<u></u>
CHARGE TO:	116		IG NAME ND NUMBER	
······································		PE OF MATERIAL		
[] Prod	uction Water	[] Drilling Fluids	[] Rinsate	
	Bottoms	V Contaminated Soil	[] Jet Out	
		[] BS&W Content:	[] Call Out	
· · · · · · · · · · · · · · · · · · ·	-			
Description:		· · · · · · · · · · · · · · · · · · ·		
RRC or API #			C-133#	
VOLUME OF MATERIAL []	BBLS	_:)/ YARD	20_: 11_	
TICKET, OPERATOR/SHIP	PER REPRESENTS AN THE RESOURCE, CON	D WARRANTS THAT THE WA	E MATERIALS SHIPPED WITH TH STE MATERIAL SHIPPED HEREW ACT OF 1976, AS AMENDED FROM 21 et seg., AND REGULATIONS RE	/ITH IS MTIME
TICKET, OPERATOR/SHIPF MATERIAL EXEMPT FROM TO TIME, 40 U.S.C. § 6901 THERETO, BY VIRTUE OF T ASSOCIATED WITH THE E GEOTHERMAL ENERGY. ALSO AS A CONDITION TICKET. TRANSPORTER	PER REPRESENTS AN THE RESOURCE, CON , et seq., THE NM HEA THE EXEMPTION AFF XPLORATION, DEVEL TO SUNDANCE SERVI REPRESENTS ANE	D WARRANTS THAT THE WA ISERVATION AND RECOVERY ALTH AND SAF. CODE § 361.00 ORDED DRILLING FLUIDS, PF OPMENT OR PRODUCTION CES, INC.'S ACCEPTANCE OF T O WARRANTS THAT ONL	STE MATERIAL SHIPPED HEREW ACT OF 1976, AS AMENDED FROM D1 et seq., AND REGULATIONS RE CODUCED WATERS, AND OTHER V OF CRUDE OIL OR NATURAL G THE MATERIALS SHIPPED WITH TH Y THE MATERIAL DELIVERED	AITH IS M TIME LATED WASTE AS OR HIS JOB D BY
TICKET, OPERATOR/SHIPF MATERIAL EXEMPT FROM TO TIME, 40 U.S.C. § 6901 THERETO, BY VIRTUE OF T ASSOCIATED WITH THE E GEOTHERMAL ENERGY. ALSO AS A CONDITION TICKET. TRANSPORTER OPERATOR/SHIPPER TO T FACILITY FOR DISPOSAL. THIS WILL CERTIFY tha above described location,	YER REPRESENTS AN THE RESOURCE, CON , et seq., THE NM HEA THE EXEMPTION AFF XPLORATION, DEVEL TO SUNDANCE SERVI REPRESENTS ANE TRANSPORTER IS NO t the above Transport and that it was tende	D WARRANTS THAT THE WA ISERVATION AND RECOVERY . ALTH AND SAF. CODE § 361.00 ORDED DRILLING FLUIDS, PF OPMENT OR PRODUCTION CES, INC.'S ACCEPTANCE OF T O WARRANTS THAT ONL W DELIVERED BY TRANSPO	STE MATERIAL SHIPPED HEREW ACT OF 1976, AS AMENDED FROM D1 et seq., AND REGULATIONS RE RODUCED WATERS, AND OTHER V OF CRUDE OIL OR NATURAL G HE MATERIALS SHIPPED WITH TH Y THE MATERIAL DELIVEREI RTER TO SUNDANCE SERVICES, Inted by this Transporter Statement ipper. This will certify that no add	ATH IS M TIME LATED WASTE AS OR IIS JOB D BY INC.'S t at the
TICKET, OPERATOR/SHIPF MATERIAL EXEMPT FROM TO TIME, 40 U.S.C. § 6901 THERETO, BY VIRTUE OF T ASSOCIATED WITH THE E GEOTHERMAL ENERGY. ALSO AS A CONDITION TICKET. TRANSPORTER OPERATOR/SHIPPER TO T FACILITY FOR DISPOSAL. THIS WILL CERTIFY that above described location, materials were added to the DRIVER:	PER REPRESENTS AN THE RESOURCE, CON , et seq., THE NM HEA THE EXEMPTION AFF EXPLORATION, DEVEL TO SUNDANCE SERVI REPRESENTS AND TRANSPORTER IS NO t the above Transport and that it was tenden is load, and that the r	D WARRANTS THAT THE WA ISERVATION AND RECOVERY. ILTH AND SAF. CODE § 361.00 ORDED DRILLING FLUIDS, PF OPMENT OR PRODUCTION CES, INC.'S ACCEPTANCE OF T O WARRANTS THAT ONL W DELIVERED BY TRANSPO er loaded the material represe red by the above described sh naterial was delivered withou	STE MATERIAL SHIPPED HEREW ACT OF 1976, AS AMENDED FROM D1 et seq., AND REGULATIONS RE RODUCED WATERS, AND OTHER V OF CRUDE OIL OR NATURAL G HE MATERIALS SHIPPED WITH TH Y THE MATERIAL DELIVEREI RTER TO SUNDANCE SERVICES, Inted by this Transporter Statement ipper. This will certify that no add	ATH IS M TIME LATED WASTE AS OR IIS JOB D BY INC.'S t at the
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	SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 ICKET No. 235705
L	EASE OPERATOR/SHIPPER/COMPANY: SUG
L	EASE NAME: LO'LCF
_	TRANSPORTER COMPANY: A 45 TK TIME 11:34 (M)PM
0	DATE: 2. 12. 7013 VEHICLE NO: 5 GENERATOR COMPANY MAN'S NAME C. Stanley
C	HARGE TO:
	TYPE OF MATERIAL
	[] Production Water [] Drilling Fluids [] Rinsate
	[] Tank Bottoms
. *	[] Solids [] BS&W Content: [] Call Out
• .	
	Description:
R	IRC or API # C-133#
١.	VOLUME OF MATERIAL []BBLS: \/YARD_20: []
	TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.
	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.
	DRIVER:
	FACILITY REPRESENTATIVE: CONILCE CONCLO
	(SIGNATURE)
,	White - Sundance Canary - Sundance Acct #1 Pink - Transporter

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P.O. Box 1737 Eunice, New Mexic (575) 394-2511	
LEASE OPERATOR/SHIPPER/COMPANY:	IG
LEASE NAME: 10" LCF	
TRANSPORTER COMPANY:	TRK TIME :23 AMPM
DATE: 2-12.7.13 VEHICLE NO: 5	GENERATOR COMPANY
CHARGE TO: SUG	RIG NAME AND NUMBER
ТҮ	PE OF MATERIAL
[] Production Water	[] Drilling Fluids [] Rinsate
[] Tank Bottoms	Contaminated Soil
[] Solids	[] BS&W Content: [] Call Out
Description:	
RRC or API #	C-133# .
VOLUME OF MATERIAL [] BBLS	: Y1 YARD 20: [1
THERETO, BY VIRTUE OF THE EXEMPTION AFFO ASSOCIATED WITH THE EXPLORATION, DEVELO GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVIC TICKET. TRANSPORTER REPRESENTS AND	LTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED ORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE OPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR LES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB WARRANTS THAT ONLY THE MATERIAL DELIVERED BY W DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S
THIS WILL CERTIFY that the above Transporter above described location, and that it was tendered materials were added to this load, and that the m	r loaded the material represented by this Transporter Statement at the ed by the above described shipper. This will certify that no additional paterial was delivered without incident.
THIS WILL CERTIFY that the above Transporter above described location, and that it was tendered materials were added to this load, and that the m DRIVER: GIGMATURE FACILITY REPRESENTATIVE:	ed by the above described shipper. This will certify that no additional naterial was delivered without incident.
THIS WILL CERTIFY that the above Transporter above described location, and that it was tendered materials were added to this load, and that the m DRIVER: GIGMATURE FACILITY REPRESENTATIVE:	ed by the above described shipper. This will certify that no additional

	P.O. Box 1737 Eunice, New Mexico 88 (575) 394-2511		TICKET No.	235668
LEASE OPERATOR/SH	IIPPER/COMPANY: SL(6	a . 		
LEASE NAME:	Le" LCF			
TRANSPORTER COMI	FUVICIE			AE 9:53 AM/PA
DATE: 2-12-20	V3 VEHICLE NO: A-1	GENE	ERATOR COMPANY MAN'S NAME:	Stauley
CHARGE TO:	SUG		NG NAME ND NUMBER	
	TVDC			
		OF MATERIAL	. • _	
	ς.] Drilling Fluids	[] Rinsate	
		Contaminated Soil	[] Jet Out	
	[] Solids [BS&W Content:	[] Call Ou	t
Description:	00			
RRC or API #			Ç-133#	
VOLUME OF MATERIA	AL []BBLS:	V YARD	20:	[]
TICKET, OPERAT	FION TO SUNDANCE SERVICES, INC OR/SHIPPER REPRESENTS AND WA	RRANTS THAT THE WA	STE MATERIAL SHIP	PED HEREWITH IS
TICKET, OPERAT MATERIAL EXEM TO TIME, 40 U.S.O THERETO, BY VIP ASSOCIATED WI GEOTHERMAL EI ALSO AS A COI TICKET. TRANS OPERATOR/SHIP FACILITY FOR DI THIS WILL CER above described	OR/SHIPPER REPRESENTS AND WA PT FROM THE RESOURCE, CONSERV C. § 6901, et seq., THE NM HEALTH / ITUE OF THE EXEMPTION AFFORDE TH THE EXPLORATION, DEVELOPM NERGY. NDITION TO SUNDANCE SERVICES, I PORTER REPRESENTS AND W/ PER TO TRANSPORTER IS NOW D	RRANTS THAT THE WA ATION AND RECOVERY AND SAF. CODE § 361.00 D DRILLING FLUIDS, PF ENT OR PRODUCTION NC'S ACCEPTANCE OF T ARRANTS THAT ONL ELIVERED BY TRANSPC ded the material represe of the above described sh	ASTE MATERIAL SHIP ACT OF 1976, AS AME 01 et seq., AND REGU RODUCED WATERS, A OF CRUDE OIL OR I THE MATERIALS SHIPF Y THE MATERIAL DRTER TO SUNDANCI INTED by this Transport hipper. This will certify	PED HEREWITH IS ENDED FROM TIME ILATIONS RELATED IND OTHER WASTE NATURAL GAS OR PED WITH THIS JOB DELIVERED BY E SERVICES, INC.'S er Statement at the
TICKET, OPERAT MATERIAL EXEM TO TIME, 40 U.S.O THERETO, BY VIF ASSOCIATED WI GEOTHERMAL EN ALSO AS A CON TICKET. TRANS OPERATOR/SHIP FACILITY FOR DI THIS WILL CER above described materials were ad	OR/SHIPPER REPRESENTS AND WA PT FROM THE RESOURCE, CONSERV C. § 6901, et seq., THE NM HEALTH / RTUE OF THE EXEMPTION AFFORDE TH THE EXPLORATION, DEVELOPM NERGY. NDITION TO SUNDANCE SERVICES, I PORTER REPRESENTS AND W/ PER TO TRANSPORTER IS NOW DI SPOSAL. ITIFY that the above Transporter load location, and that it was tendered by dided to this load, and that the mater	RRANTS THAT THE WA ATION AND RECOVERY AND SAF. CODE § 361.00 D DRILLING FLUIDS, PF ENT OR PRODUCTION NC'S ACCEPTANCE OF T ARRANTS THAT ONL ELIVERED BY TRANSPC ded the material represe of the above described sh	ASTE MATERIAL SHIP ACT OF 1976, AS AME 01 et seq., AND REGU RODUCED WATERS, A OF CRUDE OIL OR I THE MATERIALS SHIPF Y THE MATERIAL DRTER TO SUNDANCI INTED by this Transport hipper. This will certify	PED HEREWITH IS ENDED FROM TIME ILATIONS RELATED IND OTHER WASTE NATURAL GAS OR PED WITH THIS JOB DELIVERED BY E SERVICES, INC.'S er Statement at the
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Sector States and the

P.O. Box 1737 Eunice, 1 (575) 394	
LEASE OPERATOR/SHIPPER/COMPANY:	SUG
LEASE NAME: LOU LS	
TRANSPORTER COMPANY:	TIME /1:44 (AM/PM
DATE: 2/12/70/3 VEHICLE NO:	GENERATOR COMPANY C. Stanley
CHARGE TO: SIG	RIG NAME AND NUMBER
······································	TYPE OF MATERIAL
[] Production Water [] Tank Bottoms [] Solids Description:	[] Drilling Fluids [] Rinsate] Contaminated Soil [] Jet Out [] BS&W Content: [] Call Out
RRC or API #	C-133#
	ERVICES, INC'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB
MATERIAL EXEMPT FROM THE RESOUR TO TIME, 40 U.S.C. § 6901, et seq., THE THERETO, BY VIRTUE OF THE EXEMPTH ASSOCIATED WITH THE EXPLORATION GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANC TICKET. TRANSPORTER REPRESENT OPERATOR/SHIPPER TO TRANSPORTE FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Tr above described location, and that it we	NTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS ICE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED ON AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE N, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR CE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB S AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY R IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S cansporter loaded the material represented by this Transporter Statement at the as tendered by the above described shipper. This will certify that no additional that the material was delivered without incident.

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P.O. Box 1737 Eunice, New N (575) 394-2511	Aexico 88231 TICKET NO.
LEASE OPERATOR/SHIPPER/COMPANY:	SUG
LEASE NAME:	
	TIME 35 AM/2
DATE: 2-12-2013 VEHICLE NO: A	GENERATOR COMPANY C'. Stanler
CHARGETO: SUG	RIG NAME AND NUMBER
· · · · · · · · · · · · · · · · · · ·	TYPE OF MATERIAL
[] Production Water	[] Drilling Fluids [] Rinsate
[] Tank Bottoms	Contaminated Soil
[] Solids	[] BS&W Content: [] Call Out
Description: C/C	>
RRC or API #	C-133#
VOLUME OF MATERIAL []BBLS	: <u>}</u> yard_ <u>20</u> : []
THERETO, BY VIRTUE OF THE EXEMPTION A	HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED VFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE VELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR
ALSO AS A CONDITION TO SUNDANCE SEF TICKET. TRANSPORTER REPRESENTS A	RVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S
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ALSO AS A CONDITION TO SUNDANCE SEF TICKET. TRANSPORTER REPRESENTS A OPERATOR/SHIPPER TO TRANSPORTER IS FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transpo- above described location, and that it was ter materials were added to this load, and that th DRIVER:	RVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S orter loaded the material represented by this Transporter Statement at the indered by the above described shipper. This will certify that no additional

P.O. Box 1737 Eunice, New Mex (575) 394-2511	
LEASE OPERATOR/SHIPPER/COMPANY: 50	6
LEASE NAME: LOT LCF	<u></u>
TRANSPORTER COMPANY: Canada	Trucking TIME 8:06 (AMYPM
DATE: 2.12.2013 VEHICLE NO: 72	O GENERATOR COMPANY C. Stanley
CHARGE TO: SUG	RIG NAME AND NUMBER
. Т'	YPE OF MATERIAL
[] Production Water	[] Drilling Fluids [] Rinsate
[] Tank Bottoms	X Contaminated Soil [] Jet Out
[] Solids	[] BS&W Content: [] Call Out
Description:	
RRC or API #	C-133#
VOLUME OF MATERIAL []BBLS	_: <u>}</u> YARD <u>2</u> : []
TICKET, OPERATOR/SHIPPER REPRESENTS AN MATERIAL EXEMPT FROM THE RESOURCE, CON TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEA THERETO, BY VIRTUE OF THE EXEMPTION AFF ASSOCIATED WITH THE EXPLORATION, DEVE GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVI TICKET. TRANSPORTER REPRESENTS AND OPERATOR/SHIPPER TO TRANSPORTER IS NO FACILITY FOR DISPOSAL.	S, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB ID WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS ISERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME ALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED ORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE LOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR ICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB O WARRANTS THAT ONLY THE MATERIAL DELIVERED BY DW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S
	er loaded the material represented by this Transporter Statement at the ered by the above described shipper. This will certify that no additional material was delivered without incident.
DRIVER:	
	Bomer
	nary - Sundance Acct #1 Pink - Transporter
White - Sundance Ca	

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SUN	P.O. Box 1737 Eunice, Nev (575) 394-25	v Mexico 88231	TICKET No. 205	667
LEASE OPERATOR/S	SHIPPER/COMPANY:	SIIG		
LEASE NAME:	le" LCF	······································		
TRANSPORTER CON	MPANY: Camaa	40 TKK	TIME	5/ (AM/PM
DATE: 2-12-20	VEHICLE NO: ·	770 GENE	RATOR COMPANY MAN'S NAME: 54	anley
CHARGE TO:	SUG		G NAME ND NUMBER	
[
		TYPE OF MATERIAL		•
}.	[] Production Water	[] Drilling Fluids	[] Rinsate	
	[] Tank Bottoms	Contaminated Soil	[] Jet Out	
	[] Solids	[] BS&W Content:	[] Call Out	
Descriptio	n: <u>00</u>			
RRC or API #			C-133#	
VOLUME OF MATE	RIAL []BBLS	: [/] YARD	20 : 11	
AS A CONE TICKET, OPER/ MATERIAL EXE	Dition to sundance ser Ator/Shipper Represent: Mpt from the resource,	VICES, INC.'S ACCEPTANCE OF TH S AND WARRANTS THAT THE WA , CONSERVATION AND RECOVERY /	E MATERIALS SHIPPED WITH STE MATERIAL SHIPPED HE ACT OF 1976, AS AMENDED F	REWITH IS
AS A CONE TICKET, OPER/ MATERIAL EXE TO TIME, 40 U. THERETO, BY V ASSOCIATED V GEOTHERMAL ALSO AS A C TICKET. TRAN OPERATOR/SH	DITION TO SUNDANCE SER ATOR/SHIPPER REPRESENT: MPT FROM THE RESOURCE, S.C. § 6901, et seq., THE NM /IRTUE OF THE EXEMPTION WITH THE EXPLORATION, D ENERGY. ONDITION TO SUNDANCE S NSPORTER REPRESENTS IIPPER TO TRANSPORTER I	VICES, INC.'S ACCEPTANCE OF TH S AND WARRANTS THAT THE WA	E MATERIALS SHIPPED WITH STE MATERIAL SHIPPED HE ACT OF 1976, AS AMENDED F O1 et seq., AND REGULATION ODUCED WATERS, AND OTH OF CRUDE OIL OR NATURA HE MATERIALS SHIPPED WIT Y THE MATERIAL DELIV	REWITH IS ROM TIME S RELATED HER WASTE NL GAS OR H THIS JOB FERED BY
AS A CONE TICKET, OPER/ MATERIAL EXE TO TIME, 40 U. THERETO, BY V ASSOCIATED V GEOTHERMAL ALSO AS A C TICKET. TRAN OPERATOR/SH FACILITY FOR I THIS WILL CE above describe	DITION TO SUNDANCE SER ATOR/SHIPPER REPRESENT: MPT FROM THE RESOURCE, S.C. § 6901, et seq., THE NM /IRTUE OF THE EXEMPTION WITH THE EXPLORATION, D ENERGY. ONDITION TO SUNDANCE S NSPORTER REPRESENTS INPPER TO TRANSPORTER I DISPOSAL. ERTIFY that the above Trans	VICES, INC.'S ACCEPTANCE OF TH S AND WARRANTS THAT THE WA , CONSERVATION AND RECOVERY / A HEALTH AND SAF. CODE § 361.00 I AFFORDED DRILLING FLUIDS, PR DEVELOPMENT OR PRODUCTION SERVICES, INC.'S ACCEPTANCE OF T AND WARRANTS THAT ONL'	E MATERIALS SHIPPED WITH STE MATERIAL SHIPPED WITH STE MATERIAL SHIPPED HE ACT OF 1976, AS AMENDED F D1 et seq., AND REGULATION ODUCED WATERS, AND OTH OF CRUDE OIL OR NATURA HE MATERIALS SHIPPED WIT Y THE MATERIAL DELIV RTER TO SUNDANCE SERVI Inted by this Transporter Stated ipper. This will certify that no	REWITH IS ROM TIME S RELATED IER WASTE AL GAS OR H THIS JOB FERED BY CES, INC.'S
AS A CONE TICKET, OPER/ MATERIAL EXE TO TIME, 40 U. THERETO, BY V ASSOCIATED V GEOTHERMAL ALSO AS A CC TICKET. TRAM OPERATOR/SH FACILITY FOR I THIS WILL CE above describe materials were DRIVER:	DITION TO SUNDANCE SER ATOR/SHIPPER REPRESENT: MPT FROM THE RESOURCE, S.C. § 6901, et seq., THE NM /IRTUE OF THE EXEMPTION WITH THE EXPLORATION, D ENERGY. ONDITION TO SUNDANCE S NSPORTER REPRESENTS INPPER TO TRANSPORTER I DISPOSAL. ERTIFY that the above Trans	VICES, INC.'S ACCEPTANCE OF TH S AND WARRANTS THAT THE WA , CONSERVATION AND RECOVERY / A HEALTH AND SAF. CODE § 361.00 I AFFORDED DRILLING FLUIDS, PR DEVELOPMENT OR PRODUCTION SERVICES, INC.'S ACCEPTANCE OF T AND WARRANTS THAT ONL' S NOW DELIVERED BY TRANSPO sporter loaded the material represen- tendered by the above described sh	E MATERIALS SHIPPED WITH STE MATERIAL SHIPPED WITH STE MATERIAL SHIPPED HE ACT OF 1976, AS AMENDED F D1 et seq., AND REGULATION ODUCED WATERS, AND OTH OF CRUDE OIL OR NATURA HE MATERIALS SHIPPED WIT Y THE MATERIAL DELIV RTER TO SUNDANCE SERVI Inted by this Transporter Stated ipper. This will certify that no	REWITH IS ROM TIME S RELATED IER WASTE AL GAS OR H THIS JOB FERED BY CES, INC.'S
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' '	P.O. Box 1737 Eunice, New (575) 394-251	Mexico 88231	TICKET No. 235705	
LEASE OPERATO	R/SHIPPER/COMPANY: 5	UG		
LEASE NAME:	6" LCF			
TRANSPORTER C	OMPANY: Canto	acho	TIME 11:32 AV	i∕PM
DATE:2/12/	2013 VEHICLE NO:	GENI	MAN'S NAME: C. Stonlar	-1
CHARGE TO:	SUG		IG NAME ND NUMBER	- 3
··· ,		TYPE OF MATERIAL		
×	[] Production Water	[] Drilling Fluids	[] Rinsate	
	[] Tank Bottoms	Contaminated Soil	[] Jet Out	
	[] Solids	[] BS&W Content:	[] Call Out	
Descrip	(A)	~		
RRC or API #		**************************************	C-133#	
VOLUME OF MA	TERIAL []BBLS	: YARD	20: []	
MATERIAL E TO TIME, 40 THERETO, B ASSOCIATEI GEOTHERM ALSO AS A TICKET. TR OPERATOR/	XEMPT FROM THE RESOURCE, C U.S.C. § 6901, et seq., THE NM Y VIRTUE OF THE EXEMPTION / O WITH THE EXPLORATION, DE AL ENERGY. CONDITION TO SUNDANCE SE ANSPORTER REPRESENTS / SHIPPER TO TRANSPORTER IS OR DISPOSAL. CERTIFY that the above Transp	CONSERVATION AND RECOVERY HEALTH AND SAF. CODE § 361.0 AFFORDED DRILLING FLUIDS, PF EVELOPMENT OR PRODUCTION RVICES, INC.'S ACCEPTANCE OF T AND WARRANTS THAT ONL NOW DELIVERED BY TRANSPC	ASTE MATERIAL SHIPPED HEREWITH IS ACT OF 1976, AS AMENDED FROM TIME 01 et seq., AND REGULATIONS RELATED RODUCED WATERS, AND OTHER WASTE OF CRUDE OIL OR NATURAL GAS OF THE MATERIALS SHIPPED WITH THIS JOE Y THE MATERIAL DELIVERED BY ORTER TO SUNDANCE SERVICES, INC.'S Inted by this Transporter Statement at the) } }
above descr			hipper. This will certify that no additiona	1
above descr		ndered by the above described sl he material was delivered withou	hipper. This will certify that no additiona	
above descr materials we DRIVER:			hipper. This will certify that no additiona	I

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P.O. Box 1737 Eunice (575) 39	, New Mexico 88231	TICKET No. 2	35727
LEASE OPERATOR/SHIPPER/COMPANY:	SILA		
LEASE NAME:	The second se		
TRANSPORTER COMPANY: Can	101103	TIME	1:20 AM/PM
DATE: 2/17/2018 VEHICLE NO:	9720 GEN	ERATOR COMPANY MAN'S NAME:	Stanley
CHARGETO: 5/16		RIG NAME AND NUMBER	
	TYPE OF MATERIAL		
[] Production Wate	er [] Drilling Fluids	[] Rinsate	
[] Tank Bottoms	Contaminated Soil	[] Jet Out	· · · · · · · · · · · · · · · · · · ·
[] Solids	[] BS&W Content:	[] Call Out	•
Description:	<u></u>		
RRC or API #	http://www.th	C-133#	
VOLUME OF MATERIAL [] BBLS.	: / 1 YARD	$\overline{\mathcal{O}\mathcal{O}}$:	[]
TICKET. TRANSPORTER REPRESEN OPERATOR/SHIPPER TO TRANSPORT FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above T above described location, and that it w materials were added to this load, and DRIVER:	TION AFFORDED DRILLING FLUIDS, PL DN, DEVELOPMENT OR PRODUCTION ICE SERVICES, INC.'S ACCEPTANCE OF ITS AND WARRANTS THAT ON ER IS NOW DELIVERED BY TRANSPO Transporter loaded the material represe was tendered by the above described su	RODUCED WATERS, AND I OF CRUDE OIL OR NA THE MATERIALS SHIPPED LY THE MATERIAL D DRTER TO SUNDANCE S Ented by this Transporter S hipper. This will certify the	OTHER WASTE TURAL GAS OR WITH THIS JOB DELIVERED BY ERVICES, INC.'S
	EP Canary - Sundance Acct #1	es Pink - Transporte	2 r
White - Sundance Re-order from: TO	TALLY SHARP ADVERTISING • 432-586-5401 • www.Pro	omoSupermarket.com	

	E SERVICES, I 7 Eunice, New Mexico 88231 (575) 394-2511	nc. TICKET No	235639
LEASE OPERATOR/SHIPPER/COM	PANY: SILG		
LEASE NAME:	1 CE		······································
TRANSPORTER COMPANY:	Ats THE		
DATE: 2-12.2013 VEHI	CLENO:	GENERATOR COMPANY MAN'S NAME:	Solante 4
CHARGE TO: 56	<u>IG</u>	RIG NAME AND NUMBER	
	TYPE OF MA	TERIAL	······································
[] Product	ion Water [] Drilling	Fluids [] Rins	ate
[] Tank Bo	ttoms 📐 Contar	ninated Soil [] Jet C	Dut
[] Solids	[] BS&W	Content: [] Call	Out
Description:	nn.		
RRC or API #	Same i gange	C-133#	
VOLUME OF MATERIAL [] BB		[/] YARD:	
TICKET, OPERATOR/SHIPPER MATERIAL EXEMPT FROM THI	IDANCE SERVICES, INC/S ACCEP REPRESENTS AND WARRANTS E RESOURCE, CONSERVATION AN Seg. THE NM HEALTH AND SAF	THAT THE WASTE MATERIAL SHID RECOVERY ACT OF 1976, AS A	HIPPED HEREWITH IS MENDED FRÓM TIME
TICKET, OPERATOR/SHIPPER MATERIAL EXEMPT FROM THI TO TIME, 40 U.S.C. § 6901, et THERETO, BY VIRTUE OF THE	REPRESENTS AND WARRANTS	THAT THE WASTE MATERIAL SH ID RECOVERY ACT OF 1976, AS A CODE § 361.001 et seq., AND RE NG FLUIDS, PRODUCED WATERS	HIPPED HEREWITH IS MENDED FRÓM TIME GULATIONS RELATED 5, AND OTHER WASTE
TICKET, OPERATOR/SHIPPER MATERIAL EXEMPT FROM THI TO TIME, 40 U.S.C. § 6901, et THERETO, BY VIRTUE OF THE ASSOCIATED WITH THE EXPI GEOTHERMAL ENERGY. ALSO AS A CONDITION TO S TICKET. TRANSPORTER RE	REPRESENTS AND WARRANTS E RESOURCE, CONSERVATION AN seq., THE NM HEALTH AND SAF. EXEMPTION AFFORDED DRILLI	THAT THE WASTE MATERIAL SH ID RECOVERY ACT OF 1976, AS A CODE § 361.001 et seq., AND RE NG FLUIDS, PRODUCED WATERS PRODUCTION OF CRUDE OIL C EPTANCE OF THE MATERIALS SH THAT ONLY THE MATERI	HIPPED HEREWITH IS MENDED FRÓM TIME GULATIONS RELATED S, AND OTHER WASTE OR NATURAL GAS OR HIPPED WITH THIS JOB AL DELIVERED BY
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TICKET, OPERATOR/SHIPPER MATERIAL EXEMPT FROM THI TO TIME, 40 U.S.C. § 6901, et THERETO, BY VIRTUE OF THE ASSOCIATED WITH THE EXPI GEOTHERMAL ENERGY. ALSO AS A CONDITION TO S TICKET. TRANSPORTER RE OPERATOR/SHIPPER TO TRA FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above described location, and	REPRESENTS AND WARRANTS E RESOURCE, CONSERVATION AN seq., THE NM HEALTH AND SAF. EXEMPTION AFFORDED DRILLI LORATION, DEVELOPMENT OR SUNDANCE SERVICES, INC.'S ACC EPRESENTS AND WARRANTS NSPORTER IS NOW DELIVERED e above Transporter loaded the mid that it was tendered by the above	THAT THE WASTE MATERIAL SH ID RECOVERY ACT OF 1976, AS A CODE § 361.001 et seq., AND RE NG FLUIDS, PRODUCED WATERS PRODUCTION OF CRUDE OIL C EPTANCE OF THE MATERIALS SH THAT ONLY THE MATERIA BY TRANSPORTER TO SUNDAL aterial represented by this Transp re described shipper. This will cer	HIPPED HEREWITH IS MENDED FRÓM TIME GULATIONS RELATED 5, AND OTHER WASTE OR NATURAL GAS OR HIPPED WITH THIS JOB AL DELIVERED BY NCE SERVICES, INC.'S
TICKET, OPERATOR/SHIPPER MATERIAL EXEMPT FROM THI TO TIME, 40 U.S.C. § 6901, et THERETO, BY VIRTUE OF THE ASSOCIATED WITH THE EXPI GEOTHERMAL ENERGY. ALSO AS A CONDITION TO S TICKET: TRANSPORTER RE OPERATOR/SHIPPER TO TRA FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above described location, and materials were added to this le DRIVER: (SIGNATURE) FACILITY REPRESENTATIVE	REPRESENTS AND WARRANTS E RESOURCE, CONSERVATION AN seq., THE NM HEALTH AND SAF. EXEMPTION AFFORDED DRILLI LORATION, DEVELOPMENT OR I SUNDANCE SERVICES, INC.'S ACC PRESENTS AND WARRANTS NSPORTER IS NOW DELIVERED e above Transporter loaded the mid t that it was tendered by the above oad, and that the material was de Computed Computed	THAT THE WASTE MATERIAL SH ID RECOVERY ACT OF 1976, AS A CODE § 361.001 et seq., AND RE NG FLUIDS, PRODUCED WATERS PRODUCTION OF CRUDE OIL C EPTANCE OF THE MATERIALS SH THAT ONLY THE MATERIALS SH BY TRANSPORTER TO SUNDAI aterial represented by this Transp re described shipper. This will cer livered without incident.	HIPPED HEREWITH IS MENDED FRÓM TIME GULATIONS RELATED 5, AND OTHER WASTE DR NATURAL GAS OR HIPPED WITH THIS JOB AL DELIVERED BY NCE SERVICES, INC.'S orter Statement at the
TICKET, OPERATOR/SHIPPER MATERIAL EXEMPT FROM THI TO TIME, 40 U.S.C. § 6901, et THERETO, BY VIRTUE OF THE ASSOCIATED WITH THE EXPI GEOTHERMAL ENERGY. ALSO AS A CONDITION TO S TICKET. TRANSPORTER RE OPERATOR/SHIPPER TO TRA FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above described location, and materials were added to this location.	REPRESENTS AND WARRANTS E RESOURCE, CONSERVATION AN seq., THE NM HEALTH AND SAF. EXEMPTION AFFORDED DRILLI LORATION, DEVELOPMENT OR I SUNDANCE SERVICES, INC.'S ACC PRESENTS AND WARRANTS NSPORTER IS NOW DELIVERED e above Transporter loaded the mid t that it was tendered by the above oad, and that the material was de Computer Reserves	THAT THE WASTE MATERIAL SH ID RECOVERY ACT OF 1976, AS A CODE § 361.001 et seq., AND RE NG FLUIDS, PRODUCED WATERS PRODUCTION OF CRUDE OIL C EPTANCE OF THE MATERIALS SH THAT ONLY THE MATERIALS SH BY TRANSPORTER TO SUNDAI aterial represented by this Transp re described shipper. This will cer livered without incident.	HIPPED HEREWITH IS MENDED FRÓM TIME GULATIONS RELATED S, AND OTHER WASTE OR NATURAL GAS OR HIPPED WITH THIS JOB AL DELIVERED BY NCE SERVICES, INC'S orter Statement at the tify that no additional

P.O. Box 1737 Eunice, New (575) 394-251	Mexico 88231 TICKET No.
LEASE OPERATOR/SHIPPER/COMPANY:	SUG
LEASE NAME: 6" LCF	······································
	TKK TIME 4:50 AM/PM
DATE: 2.12.2013 VEHICLE NO: 4	GENERATOR COMPANY MAN'S NAME: C. Stan (29
CHARGETO: SUG	RIG NAME AND NUMBER
	TYPE OF MATERIAL
[] Production Water [] Tank Bottoms [] Solids Description:	[] Drilling Fluids [] Rinsate [] Contaminated Soil [] Jet Out [] BS&W Content: [] Call Out
RRC or API #	C-133#
	VICES, INC'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB
TICKET, OPERATOR/SHIPPER REPRESENTS MATERIAL EXEMPT FROM THE RESOURCE, G TO TIME, 40 U.S.C. § 6901, et seq., THE NM THERETO, BY VIRTUE OF THE EXEMPTION A ASSOCIATED WITH THE EXPLORATION, DI GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SE TICKET. TRANSPORTER REPRESENTS OPERATOR/SHIPPER TO TRANSPORTER IS FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transp above described location, and that it was te materials were added to this load, and that the DRIVER:	AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE EVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR ERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S Poorter loaded the material represented by this Transporter Statement at the endered by the above described shipper. This will certify that no additional
TICKET, OPERATOR/SHIPPER REPRESENTS MATERIAL EXEMPT FROM THE RESOURCE, C TO TIME, 40 U.S.C. § 6901, et seq., THE NM THERETO, BY VIRTUE OF THE EXEMPTION A ASSOCIATED WITH THE EXPLORATION, DI GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SE TICKET. TRANSPORTER REPRESENTS OPERATOR/SHIPPER TO TRANSPORTER IS FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transp above described location, and that it was te materials were added to this load, and that the	AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE EVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR ERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S Poorter loaded the material represented by this Transporter Statement at the endered by the above described shipper. This will certify that no additional

	O. Box 1737 Eunice, New Mexico 88 (575) 394-2511	
LEASE OPERATOR/SHIP	PER/COMPANY:	<u>G</u>
LEASE NAME:	"10 F	
TRANSPORTER COMPAN	<u> </u>	TIME 1: 24 MM/PM
DATE: 2/12/2013		MAN'S NAME: (*. Strate-
CHARGE TO:	SUG	RIG NAME §
· · · · · · · · · · · · · · · · · · ·	TVDE	OF MATERIAL
[]	Production Water [Tank Bottoms] Drilling Fluids [] Rinsate] Contaminated Soil [] Jet Out] BS&W Content: [] Call Out
RRC or API #		C-133#
VOLUME OF MATERIAL	[]BBLS:	MYARD 20 : []
TO TIME, 40 U.S.C. §	6901, et seq., THE NM HEALTH	VATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED
ASSOCIATED WITH GEOTHERMAL ENEF ALSO AS A CONDI TICKET. TRANSPOI	THE EXPLORATION, DEVELOPM RGY. TION TO SUNDANCE SERVICES, I RTER REPRESENTS AND W	DED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE MENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR INC'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB WARRANTS THAT ONLY THE MATERIAL DELIVERED BY DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S
ASSOCIATED WITH GEOTHERMAL ENER ALSO AS A CONDI TICKET. TRANSPOI OPERATOR/SHIPPEF FACILITY FOR DISPC THIS WILL CERTIF above described loc	THE EXPLORATION, DEVELOPM RGY. TION TO SUNDANCE SERVICES, I RTER REPRESENTS AND W. TO TRANSPORTER IS NOW D DSAL. FY that the above Transporter loa ation, and that it was tendered b	MENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB VARRANTS THAT ONLY THE MATERIAL DELIVERED BY DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S aded the material represented by this Transporter Statement at the by the above described shipper. This will certify that no additional
ASSOCIATED WITH GEOTHERMAL ENER ALSO AS A CONDI TICKET. TRANSPOI OPERATOR/SHIPPEF FACILITY FOR DISPC THIS WILL CERTIF above described loc	THE EXPLORATION, DEVELOPM RGY. TION TO SUNDANCE SERVICES, I RTER REPRESENTS AND W. TO TRANSPORTER IS NOW D DSAL. FY that the above Transporter loa ation, and that it was tendered b	MENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB VARRANTS THAT ONLY THE MATERIAL DELIVERED BY DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S aded the material represented by this Transporter Statement at the
ASSOCIATED WITH GEOTHERMAL ENER ALSO AS A CONDI TICKET. TRANSPOI OPERATOR/SHIPPEF FACILITY FOR DISPO THIS WILL CERTIF above described loc materials were adde DRIVER:	THE EXPLORATION, DEVELOPM RGY. TION TO SUNDANCE SERVICES, I RTER REPRESENTS AND W. 3 TO TRANSPORTER IS NOW D DSAL. FY that the above Transporter loa ation, and that it was tendered b id to this load, and that the mater	MENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB VARRANTS THAT ONLY THE MATERIAL DELIVERED BY DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S aded the material represented by this Transporter Statement at the by the above described shipper. This will certify that no additional

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P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511	Inc. TICKET No. 235726
LEASE OPERATOR/SHIPPER/COMPANY: 516	
LEASE NAME: 'LO''LCF	
TRANSPORTER COMPANY:	
DATE: 2/12/2012, VEHICLE NO: 4	MAN'S NAME
CHARGE TO: SUG	RIG NAME 3 AND NUMBER
TYPE OF M	ATERIAL
	ling Fluids [] Rinsate
	itaminated Soil [] Jet Out
le de la companya de	W Content: [] Call Out
Description:	
BRC or API #	C-133#
VOLUME OF MATERIAL []BBLS	Y YARD 2(-) : []
TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRAN MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND S/	AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME AF. CODE § 361.001 et seq., AND REGULATIONS RELATED
TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRAN MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION	TS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME AF. CODE § 361.001 et seq., AND REGULATIONS RELATED LLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE
TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRAN MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND S/ THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRI ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT C	TS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME AF. CODE § 361.001 et seq., AND REGULATIONS RELATED LLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB ITS THAT ONLY THE MATERIAL DELIVERED BY
TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRAN MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND S/ THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRI ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT C GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S A TICKET. TRANSPORTER REPRESENTS AND WARRAN OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVER	TS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME AF. CODE § 361.001 et seq., AND REGULATIONS RELATED LLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB ITS THAT ONLY THE MATERIAL DELIVERED BY RED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S e material represented by this Transporter Statement at the bove described shipper. This will certify that no additional
TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRAN MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SA THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRI ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT C GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S A TICKET. TRANSPORTER REPRESENTS AND WARRAN OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVER FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the above described location, and that it was tendered by the a	TS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME AF. CODE § 361.001 et seq., AND REGULATIONS RELATED LLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB ITS THAT ONLY THE MATERIAL DELIVERED BY RED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S e material represented by this Transporter Statement at the bove described shipper. This will certify that no additional
TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRAN MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SA THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRI ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT C GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S A TICKET. TRANSPORTER REPRESENTS AND WARRAN OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVER FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the above described location, and that it was tendered by the a materials were added to this load, and that the material was DRIVER: (SIGMATURE) FACILITY REPRESENTATIVE:	TS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME AF. CODE § 361.001 et seq., AND REGULATIONS RELATED LLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB ITS THAT ONLY THE MATERIAL DELIVERED BY RED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S e material represented by this Transporter Statement at the bove described shipper. This will certify that no additional
TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRAN MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SA THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRI ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OF GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC'S A TICKET. TRANSPORTER REPRESENTS AND WARRAN OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVER FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the above described location, and that it was tendered by the a materials were added to this load, and that the material was DRIVER: (SIGMATURE)	TS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS IAND RECOVERY ACT OF 1976, AS AMENDED FROM TIME AF, CODE § 361.001 et seq., AND REGULATIONS RELATED LLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB ITS THAT ONLY THE MATERIAL DELIVERED BY RED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S e material represented by this Transporter Statement at the bove described shipper. This will certify that no additional s delivered without incident.

	(575) 394-2511 ASE OPERATOR/SHIPPER/COMPANY:
IL	ASE OPERATOR/SHIPPER/COMPANY: <u>SLIG</u>
T	ANSPORTER COMPANY: KARL LORAS TE TIME 3:30 AM/R
C	TE:2-11-2613 VEHICLE NO: R. C. Steinte.
	ARGE TO:
	TYPE OF MATERIAL
	[] Production Water [] Drilling Fluids [] Rinsate
	[] Tank Bottoms
ļ	[] Solids [] BS&W Content: [] Call Out
	Description:
R	C or API # C-133#
	DLUME OF MATERIAL []BBLS. :
	ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S
	FACILITY FOR DISPOSAL.
	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.
	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.
	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

	P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511	TICICT ALCONOMICS STRATEGY AND A
LEASE OPERATOR	/SHIPPER/COMPANY: 5//	(m)
LEASE NAME:	te" ICF	
TRANSPORTER CC	MPANY: PACEDALS	7KK TIME ?: 31 AM/P
DATE: 2/11/	2013 VEHICLE NO:	GENERATOR COMPANY
CHARGE TO:	Sala	RIG NAME AND NUMBER
	TYPE OF	FMATERIAL
Descripti	[] Tank Bottoms	Drilling Fluids [] Rinsate Contaminated Soil [] Jet Out BS&W Content: [] Call Out
RRC or API #	Gurra - Sala	C-133#
VOLUME OF MATI	RIAL [.]BBLS:	T_{1} YARD 20 : []
TO TIME, 40 U THERETO, BY ASSOCIATED GEOTHERMA ALSO AS A O TICKET. TRA OPERÁTOR/SI FACILITY FOR THIS WILL O above describ	S.C. § 6901, et seq., THE NM HEALTH AND VIRTUE OF THE EXEMPTION AFFORDED D WITH THE EXPLORATION, DEVELOPMEN ENERGY. CONDITION TO SUNDANCE SERVICES, INC. NSPORTER REPRESENTS AND WARR HIPPER TO TRANSPORTER IS NOW DELIN DISPOSAL ERTIFY that the above Transporter loaded	ION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME D SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE IT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR "S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB RANTS THAT ONLY THE MATERIAL DELIVERED BY VERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S d the material represented by this Transporter Statement at the he above described shipper. This will certify that no additional was delivered without incident.
DRIVER:	IATŪRE) PRESENTATIVE:	Rom

P.O. Box 1737 Eunice, New Mexico 88 (575) 394-2511	ES, Inc. 8231 TICKET No. 235605
LEASE OPERATOR/SHIPPER/COMPANY:	16
LEASE NAME: LOU LOUF	
TRANSPORTER COMPANY:	CLA TICLE TIME 4:15 AMARM
DATE: 2/11/2013 VEHICLE NO: 7	GENERATOR COMPANY ('. Stanter
CHARGE TO: SLIG	RIG NAME AND NUMBER
ТҮРЕ	OF MATERIAL
[] Production Water [] Drilling Fluids [] Rinsate
[] Tank Bottoms	Contaminated Soil
[] Solids []] BS&W Content: [] Call Out
Description: C/D	
RRC or API #	C-133#
VOLUME OF MATERIAL [] BBLS:	YARD_2: []
TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH THERETO, BY VIRTUE OF THE EXEMPTION AFFORD	VATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME AND SAF, CODE § 361.001 et seq., AND REGULATIONS RELATED ED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE MENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR
TICKET. TRANSPORTER REPRESENTS AND W OPERATOR/SHIPPER TO TRANSPORTER IS NOW D FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter load above described location, and that it was tendered b materials were added to this load, and that the material DRIVER:	VARRANTS THAT ONLY THE MATERIAL DELIVERED BY DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S aded the material represented by this Transporter Statement at the by the above described shipper. This will certify that no additional erial was delivered without incident.

LEASE OF LINARO	R/SHIPPER/COMPANY:	LIG		
LEASE NAME:	101105	Same in the second		
TRANSPORTER O	OMPANY: ((17)/11	TKK	TIME	AM/PM
DATE: 2/11/		GENERAT	OR COMPANY	6 L.1
CHARGE TO:		RIG N	1949-	
		TYPE OF MATERIAL		
	[] Production Water	[] Drilling Fluids	[] Rinsate	
	[] Tank Bottoms	Contaminated Soil	[] Jet Out	• .
	[] Solids	[] BS&W Content:	[] Call Out	
Descrip	tion		· · ·	
RRC or API #		•••••	C-133#	· · · · ·
			-155# -/	
VOLUME OF MA	TERIAL []BBLS	: [] YARD	<u></u> : []	
AS A CC TICKET, OP MATERIAL E	NDITION TO SUNDANCE SERVI ERATOR/SHIPPER REPRESENTS / XEMPT FROM THE RESOURCE, CO	CES, INC.'S ACCEPTANCE OF THE N AND WARRANTS THAT THE WASTI CONSERVATION AND RECOVERY AC	E MATERIAL SHIPPED HEREWITH T OF 1976, AS AMENDED FROM T	h is Ime
AS A CC TICKET, OP MATERIAL E TO TIME, 40 THERETO, B ASSOCIATE GEOTHERM ALSO AS A	NDITION TO SUNDANCE SERVIO ERATOR/SHIPPER REPRESENTS / XEMPT FROM THE RESOURCE, C U.S.C. § 6901, et seq., THE NM H Y VIRTUE OF THE EXEMPTION A D WITH THE EXPLORATION, DE AL ENERGY.	AND WARRANTS THAT THE WASTI ONSERVATION AND RECOVERY AC HEALTH AND SAF. CODE § 361.001 (AFFORDED DRILLING FLUIDS, PROE VELOPMENT OR PRODUCTION OF RVICES, INC.'S ACCEPTANCE OF THE	E MATERIAL SHIPPED HEREWITI T OF 1976, AS AMENDED FROM T et seq., AND REGULATIONS RELA DUCED WATERS, AND OTHER WA F CRUDE OIL OR NATURAL GAS MATERIALS SHIPPED WITH THIS	h IS Ime Ted Ste Or Job
AS A CC TICKET, OP MATERIAL E TO TIME, 40 THERETO, B ASSOCIATE GEOTHERM ALSO AS / TICKET. TF OPERATOR/	INDITION TO SUNDANCE SERVIO ERATOR/SHIPPER REPRESENTS / XEMPT FROM THE RESOURCE, C U.S.C. § 6901, et seq., THE NM H Y VIRTUE OF THE EXEMPTION A D WITH THE EXPLORATION, DE AL ENERGY. A CONDITION TO SUNDANCE SEF	AND WARRANTS THAT THE WASTI ONSERVATION AND RECOVERY AC HEALTH AND SAF. CODE § 361.001 (AFFORDED DRILLING FLUIDS, PROE VELOPMENT OR PRODUCTION OF	E MATERIAL SHIPPED HEREWITI T OF 1976, AS AMENDED FROM T et seq., AND REGULATIONS RELA DUCED WATERS, AND OTHER WA F CRUDE OIL OR NATURAL GAS MATERIALS SHIPPED WITH THIS THE MATERIAL DELIVERED	H IS IME TED STE OR JOB BY
AS A CC TICKET, OP MATERIAL E TO TIME, 40 THERETO, B ASSOCIATE GEOTHERM ALSO AS A TICKET. TF OPERATOR/ FACILITY FC THIS WILL above descr	INDITION TO SUNDANCE SERVIG ERATOR/SHIPPER REPRESENTS / XEMPT FROM THE RESOURCE, C U.S.C. § 6901, et seq., THE NM H Y VIRTUE OF THE EXEMPTION A D WITH THE EXPLORATION, DE AL ENERGY. A CONDITION TO SUNDANCE SER ANSPORTER REPRESENTS A SHIPPER TO TRANSPORTER IS DR DISPOSAL. CERTIFY that the above Transpo ibed location, and that it was ter	AND WARRANTS THAT THE WASTI CONSERVATION AND RECOVERY AC HEALTH AND SAF. CODE § 361.001 (AFFORDED DRILLING FLUIDS, PROE VELOPMENT OR PRODUCTION OF RVICES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT ONLY	E MATERIAL SHIPPED HEREWITH T OF 1976, AS AMENDED FROM T et seq., AND REGULATIONS RELA DUCED WATERS, AND OTHER WA F CRUDE OIL OR NATURAL GAS MATERIALS SHIPPED WITH THIS. THE MATERIAL DELIVERED ER TO SUNDANCE SERVICES, IN ed by this Transporter Statement at per. This will certify that no addited	H IS IME TED STE OR JOB BY IC:S
AS A CC TICKET, OP MATERIAL E TO TIME, 40 THERETO, B ASSOCIATE GEOTHERM ALSO AS / TICKET. TF OPERATOR/ FACILITY FC THIS WILL above descr materials w	INDITION TO SUNDANCE SERVIG ERATOR/SHIPPER REPRESENTS / XEMPT FROM THE RESOURCE, CO U.S.C. § 6901, et seq., THE NM H Y VIRTUE OF THE EXEMPTION A D WITH THE EXPLORATION, DE AL ENERGY. A CONDITION TO SUNDANCE SER ANSPORTER REPRESENTS A SHIPPER TO TRANSPORTER IS DR DISPOSAL. CERTIFY that the above Transpo Ibed location, and that it was ter ere added to this load, and that th	AND WARRANTS THAT THE WASTI CONSERVATION AND RECOVERY AC HEALTH AND SAF. CODE § 361.001 & NEFORDED DRILLING FLUIDS, PROD VELOPMENT OR PRODUCTION OF RVICES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPORT Orter loaded the material represente indered by the above described shipp	E MATERIAL SHIPPED HEREWITH T OF 1976, AS AMENDED FROM T et seq., AND REGULATIONS RELA DUCED WATERS, AND OTHER WA F CRUDE OIL OR NATURAL GAS MATERIALS SHIPPED WITH THIS. THE MATERIAL DELIVERED ER TO SUNDANCE SERVICES, IN ed by this Transporter Statement at per. This will certify that no addited	H IS IME TED STE OR JOB BY IC:S
AS A CC TICKET, OP MATERIAL E TO TIME, 40 THERETO, B ASSOCIATE GEOTHERM ALSO AS / TICKET. TF OPERATOR/ FACILITY FC THIS WILL above descr materials w	INDITION TO SUNDANCE SERVIG ERATOR/SHIPPER REPRESENTS / XEMPT FROM THE RESOURCE, CO U.S.C. § 6901, et seq., THE NM H Y VIRTUE OF THE EXEMPTION A D WITH THE EXPLORATION, DE AL ENERGY. A CONDITION TO SUNDANCE SER ANSPORTER REPRESENTS A SHIPPER TO TRANSPORTER IS DR DISPOSAL. CERTIFY that the above Transpo Ibed location, and that it was ter ere added to this load, and that th	AND WARRANTS THAT THE WASTI CONSERVATION AND RECOVERY AC HEALTH AND SAF. CODE § 361.001 & NEFORDED DRILLING FLUIDS, PROD VELOPMENT OR PRODUCTION OF RVICES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPORT Orter loaded the material represente indered by the above described shipp	E MATERIAL SHIPPED HEREWITH T OF 1976, AS AMENDED FROM T et seq., AND REGULATIONS RELA DUCED WATERS, AND OTHER WA F CRUDE OIL OR NATURAL GAS MATERIALS SHIPPED WITH THIS. THE MATERIAL DELIVERED ER TO SUNDANCE SERVICES, IN ed by this Transporter Statement at per. This will certify that no addited	H IS IME TED STE OR JOB BY IC:S
AS A CC TICKET, OP MATERIAL E TO TIME, 40 THERETO, B ASSOCIATE GEOTHERM ALSO AS A TICKET. TF OPERATORA FACILITY FC THIS WILL above descr materials w	INDITION TO SUNDANCE SERVIG ERATOR/SHIPPER REPRESENTS / XEMPT FROM THE RESOURCE, CO U.S.C. § 6901, et seq., THE NM H Y VIRTUE OF THE EXEMPTION A D WITH THE EXPLORATION, DE' AL ENERGY. A CONDITION TO SUNDANCE SER ANSPORTER REPRESENTS A SHIPPER TO TRANSPORTER IS DR DISPOSAL. CERTIFY that the above Transpo ibed location, and that it was ter ere added to this load, and that th	AND WARRANTS THAT THE WASTI CONSERVATION AND RECOVERY AC HEALTH AND SAF. CODE § 361.001 & NEFORDED DRILLING FLUIDS, PROD VELOPMENT OR PRODUCTION OF RVICES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPORT Orter loaded the material represente indered by the above described shipp	E MATERIAL SHIPPED HEREWITH T OF 1976, AS AMENDED FROM T et seq., AND REGULATIONS RELA DUCED WATERS, AND OTHER WA F CRUDE OIL OR NATURAL GAS MATERIALS SHIPPED WITH THIS. THE MATERIAL DELIVERED ER TO SUNDANCE SERVICES, IN ed by this Transporter Statement at per. This will certify that no addited	H IS IME TED STE OR JOB BY IC:S

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P.O. B	NCE SERVICES, Inc 30x 1737 Eunice, New Mexico 88231 (575) 394-2511	TICKET No.	2/5498
LEASE OPERATOR/SHIPPER		· · · · · · · · · · · · · · · · ·	<u> </u>
LEASE OPERATOR/SHIPPER	COMPANY:		· · · · · · · · · · · · · · · · · · ·
TRANSPORTER COMPANY:		TIM	
DATE: 7	VEHICLE NO:	GENERATOR COMPANY	
<u> </u>		MAN'S NAME:	- Contrag
CHARGE TO:		AND NUMBER	•
	TYPE OF MATE	RIAL	
	oduction Water [] Drilling Flu Ink Bottoms [] Contamina Dids [] BS&W Con	ated Soil [] Jet Out	
RRC or API #	1	C-133#	
VOLUME OF MATERIAL	[]BBLS:	YARD ZO :	[]
TICKET, OPERATOR/SH MATERIAL EXEMPT FRC	O SUNDANCE SERVICES, INC.'S ACCEPTAN IPPER REPRESENTS AND WARRANTS THA DMTHE RESOURCE, CONSERVATION AND R 201. et seg THE NM HEALTH AND SAF. COL	AT THE WASTE MATERIAL SHIP RECOVERY ACT OF 1976, AS AME	PED HEREWITH IS
TICKET, OPERATOR/SH MATERIAL EXEMPT FRC TO TIME, 40 U.S.C. § 69 THERETO, BY VIRTUE O ASSOCIATED WITH THI GEOTHERMAL ENERGY ALSO AS A CONDITIO TICKET. TRANSPORTE OPERATOR/SHIPPER TO FACILITY FOR DISPOSA	IPPER REPRESENTS AND WARRANTS THA DM THE RESOURCE, CONSERVATION AND R 101, et seq., THE NM HEALTH AND SAF. COL F THE EXEMPTION AFFORDED DRILLING E EXPLORATION, DEVELOPMENT OR PRO C N TO SUNDANCE SERVICES, INC.'S ACCEPT R REPRESENTS AND WARRANTS TH D TRANSPORTER IS NOW DELIVERED BY NL.	AT THE WASTE MATERIAL SHIPI RECOVERY ACT OF 1976, AS AME DE § 361.001 et seq., AND REGU FLUIDS, PRODUCED WATERS, A IDUCTION OF CRUDE OIL OR I ANCE OF THE MATERIALS SHIPP HAT ONLY THE MATERIAL TRANSPORTER TO SUNDANCI	PED HEREWITH IS INDED FROM TIME LATIONS RELATED ND OTHER WASTE NATURAL GAS OR PED WITH THIS JOB DELIVERED BY E SERVICES, INC.'S
TICKET, OPERATOR/SH MATERIAL EXEMPT FRC TO TIME, 40 U.S.C. § 69 THERETO, BY VIRTUE O ASSOCIATED WITH THI GEOTHERMAL ENERGY. ALSO AS A CONDITIO TICKET. TRANSPORTE OPERATOR/SHIPPER TO FACILITY FOR DISPOSA THIS WILL CERTIFY t above described locatio	IPPER REPRESENTS AND WARRANTS THA DM THE RESOURCE, CONSERVATION AND R 201, et seq., THE NM HEALTH AND SAF. COL 205 THE EXEMPTION AFFORDED DRILLING E EXPLORATION, DEVELOPMENT OR PRO 2 200 TO SUNDANCE SERVICES, INC.'S ACCEPT 201 REPRESENTS AND WARRANTS TH 201 TRANSPORTER IS NOW DELIVERED BY	AT THE WASTE MATERIAL SHIPI RECOVERY ACT OF 1976, AS AME DE § 361.001 et seq., AND REGU FLUIDS, PRODUCED WATERS, A POUCTION OF CRUDE OIL OR I ANCE OF THE MATERIALS SHIPP HAT ONLY THE MATERIAL TRANSPORTER TO SUNDANCI rial represented by this Transport escribed shipper. This will certify	PED HEREWITH IS INDED FROM TIME LATIONS RELATED ND OTHER WASTE NATURAL GAS OR PED WITH THIS JOB DELIVERED BY E SERVICES, INC.'S er Statement at the

P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511	Inc. TICKET No. 235528
LEASE OPERATOR/SHIPPER/COMPANY: 5/16	
LEASE NAME: 10" LCF	
TRANSPORTER COMPANY: T - W Rental	TIME 1: 3 AM/PM
DATE: 2/11/2013 VEHICLE NO:	GENERATOR COMPANY
CHARGE TO:	RIG NAME AND NUMBER
TYPE OF M	ATERIAL
	ng Fluids [] Rinsate
	aminated Soil [] Jet Out
[] Solids [] BS&V	N Content: [] Call Out
Description:	
RRC or API #	C-133#
VOLUME OF MATERIAL []BBLS:	1 YARD 20: []
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACC TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANT MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION, TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SA THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRIL ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OF GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S AV TICKET. TRANSPORTER REPRESENTS AND WARRANT OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERI FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the above described location, and that it was tendered by the ab materials were added to this load, and that the material was DRIVER: (SIGNATURE) FACILITY REPRESENTATIVE:	That the waste material shipped herewith is and recovery act of 1976, as amended from time if. Code § 361.001 et seq., and regulations related ling fluids, produced waters, and other waste r production of crude oil or natural gas or cceptance of the materials shipped with this Job ts that only the material delivered by ed by transporter to sundance services, inc.'s material represented by this Transporter Statement at the bove described shipper. This will certify that no additional delivered without incident.
White - Sundance Canary - Sunda	Ince Acct #1 Pink - Transporter

SU I	NDANCE SERVI P.O. Box 1737 Eunice, New Mexi (575) 394-2511		TICKET No. 23556	
LEASE OPERATO	R/SHIPPER/COMPANY:	SUG.		
LEASE NAME:	Lo" LCF			
TRANSPORTER C	makers and history the	ental Starbing		AM
DATE: 2-11.	VEHICLE NO: 01	GENERA	OR COMPANY	<u>ey</u>
CHARGE TO:	516		IAME NUMBER	onte factoria de
	ТҮ	PE OF MATERIAL	······	
	[] Production Water	[] Drilling Fluids	[] Rinsate	
	[] Tank Bottoms	Contaminated Soil	[] Jet Out	
	[] Solids	[] BS&W Content:	[] Call Out	
Descrip	tion:			-
RRC or API #	· · · · · · · · · · · · · · · · · · ·		C-133#	
VOLUME OF MA	TERIAL []BBLS	_: YARD	<u> </u>	
TO TIME, 40 THERETO, B ASSOCIATE GEOTHERM ALSO AS A TICKET. TF OPERATOR FACILITY FC THIS WILL above descr materials w	XEMPT FROM THE RESOURCE, CON U.S.C. § 6901, et seq., THE NM HEA Y VIRTUE OF THE EXEMPTION AFFO D WITH THE EXPLORATION, DEVEL AL ENERGY. A CONDITION TO SUNDANCE SERVIC RANSPORTER REPRESENTS AND SHIPPER TO TRANSPORTER IS NO OR DISPOSAL. CERTIFY that the above Transporter ibed location, and that it was tended ere added to this load, and that the re- report of the second second second second (SHIPPER TO TRANSPORTER IS NO OR DISPOSAL.	LTH AND SAF. CODE § 361.001 DRDED DRILLING FLUIDS, PROI OPMENT OR PRODUCTION OF CES, INC.'S ACCEPTANCE OF THE WARRANTS THAT ONLY W DELIVERED BY TRANSPORT or loaded the material represented and by the above described ship	et seq., AND REGULATIONS RELA DUCED WATERS, AND OTHER WA CRUDE OIL OR NATURAL GAS MATERIALS SHIPPED WITH THIS THE MATERIAL DELIVERED ER TO SUNDANCE SERVICES, II and by this Transporter Statement a per. This will certify that no additi	ATED ASTE 5 OR JOB BY NC:S
(<u></u>	- <u>-</u>	
((SIGNATURE) White - Sundance Car	ary - Sundance Acct #1	Pink - Transporter	

P.O. Box 1737 Eunice, New Mey (575) 394-2511	ICES, Inc. xico 88231 TICKET.No. 235503
	(IG
LEASE NAME: / E CF	· · · · · · · · · · · · · · · · · · ·
TRANSPORTER COMPANY:	Rental Services TIME 2:5% AM/PM
DATE: 2.11.7013 VEHICLE NO:	GENERATOR COMPANY MAN'S NAMEL
CHARGETO:	RIG NAME ' AND NUMBER
Т	YPE OF MATERIAL
[] Production Water	[] Drilling Fluids [] Rinsate
[] Tank Bottoms	T Contaminated Soil [] Jet Out
[] Solids	[] BS&W Content: [] Call Out
Description	
	C-133#
RRC or API #	C-133#
VOLUME OF MATERIAL [] BBLS	_:) YARD: []
TICKET, OPERATOR/SHIPPER REPRESENTS AN MATERIAL EXEMPT FROM THE RESOURCE, CON	S, INC'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB ND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS NSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME
TICKET, OPERATOR/SHIPPER REPRESENTS AN MATERIAL EXEMPT FROM THE RESOURCE, CON TO TIME, 40 U.S.C. § 6901, et seq., THE NM HE/ THERETO, BY VIRTUE OF THE EXEMPTION AFF ASSOCIATED WITH THE EXPLORATION, DEVE GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERV TICKET. TRANSPORTER REPRESENTS AND OPERATOR/SHIPPER TO TRANSPORTER IS NO FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transport above described location, and that it was tende materials were added to this load, and that the	ND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS NSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME ALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED FORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR ICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB D WARRANTS THAT ONLY THE MATERIAL DELIVERED BY DW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S ter loaded the material represented by this Transporter Statement at the ered by the above described shipper. This will certify that no additional
TICKET, OPERATOR/SHIPPER REPRESENTS AN MATERIAL EXEMPT FROM THE RESOURCE, CON TO TIME, 40 U.S.C. § 6901, et seq., THE NM HE/ THERETO, BY VIRTUE OF THE EXEMPTION AFF ASSOCIATED WITH THE EXPLORATION, DEVE GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVI TICKET. TRANSPORTER REPRESENTS ANI OPERATOR/SHIPPER TO TRANSPORTER IS NO FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transport above described location, and that it was tende materials were added to this load, and that the DRIVER:	ND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS NSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME ALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED FORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR ICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB D WARRANTS THAT ONLY THE MATERIAL DELIVERED BY DW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S ter loaded the material represented by this Transporter Statement at the ered by the above described shipper. This will certify that no additional
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	P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511	TICKET No. 235499
LEASE OPERATO	DR/SHIPPER/COMPANY:	
LEASE NAME:	Let LEF	
		TIME / () / (AM/PN
DATE: 2-11.	2013 VEHICLE NO: R. La	MAN'S NAME: Lo + mot Carite y
CHARGE TO:	SUG	RIG NAME X AND NUMBER
	TYPE OF MATERIA	AI
	[] Production Water [] Drilling Fluids	· ·
	[] Tank Bottoms	
	[] Solids [] BS&W Content	
Descrit	and the second second	
RRC or API #		 C-133#
VOLUME OF M	· · · · · · · · · · · · · · · · · · ·	RD: []
TICKET, OF	ONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE ERATOR/SHIPPER REPRESENTS AND WARRANTS THAT T	HE WASTE MATERIAL SHIPPED HEREWITH IS
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P.O. Box 1737 Eunice, New Mexico 8823 (575) 394-2511	
LEASE OPERATOR/SHIPPER/COMPANY: SUG	
LEASE NAME: LOY LOP	
TRANSPORTER COMPANY: RAN LOIC	
DATE: 2-11-2013 VEHICLE NO: K-LS	GENERATOR COMPANY MAN'S NAME:
CHARGETO: SUG	RIG NAME AND NUMBER
ТҮРЕ О	FMATERIAL
	Drilling Fluids [] Rinsate
han a she and the second s	Contaminated Soil [] Jet Out
	BS&W Content: [] Call Out
Description:	and the state of the
RRC or API #	C-133#
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	P.O. Box 1737. Eunice, New 1 (575) 394-2511	Mexico 88231	TICKET No. 23556	6
LEASE OPERATOR/SI	HIPPER/COMPANY:	3776		
LEASE NAME:	Let LCF	<u> </u>		· · · · ·
TRANSPORTER COM	\$ ~ * \$ m \$ \$ m \$	Lava's TKK	. TIME 1:32	AM/ĝ
DATE: 2.//. 7		GENI GENI	RATOR COMPANY MAN'S NAME: Carlos	Lan 1
CHARGE TO:	SHIG		IG NAME ND NUMBER	`
		TYPE OF MATERIAL		
	 Production Water Tank Bottoms 	[] Drilling Fluids	[] Rinsate [] Jet Out	
	[] Solids	[] BS&W Content:	[] Call Out	
				•
Description	: <u> </u>		`	
RRC or API #			C-133#	·
	TOD/CHIDDED DEDDECENITC			
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MATERIAL EXEM TO TIME, 40 U.S. THERETO, BY VI ASSOCIATED W GEOTHERMAL E ALSO AS A CO TICKET. TRANS OPERATOR/SHII FACILITY FOR D	APT FROM THE RESOURCE, C C. § 6901, et seq., THE NM H RTUE OF THE EXEMPTION A ITH THE EXPLORATION, DE INERGY. NDITION TO SUNDANCE SE SPORTER REPRESENTS A PPER TO TRANSPORTER IS ISPOSAL.	CONSERVATION AND RECOVERY HEALTH AND SAF. CODE § 361.0 AFFORDED DRILLING FLUIDS, PI VELOPMENT OR PRODUCTION RVICES, INC.'S ACCEPTANCE OF T AND WARRANTS THAT ONI NOW DELIVERED BY TRANSPC	ACT OF 1976, ÀS AMENDED FROM 01 et seq., AND REGULATIONS REL RODUCED WATERS, AND OTHER W OF CRUDE OIL OR NATURAL GA THE MATERIALS SHIPPED WITH THI Y THE MATERIAL DELIVERED ORTER TO SUNDANCE SERVICES, I	ATED ASTE S OR S JOB BY INC'S
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	P.O. Box 1737 Eunice, New (575) 394-2511		TICKET No. 235497	:
LEASE OPERATOR/	SHIPPER/COMPANY:	: 11G		
LEASE NAME:	10" 1CF	••••••••••••••••••••••••••••••••••••••		' <u>a.</u>
TRANSPORTER CO	12311	Larcis TKK		₩PM
DATE: 2-11. 20	23 VEHICLE NO: K	GENERAI	MAN'S NAME:	<u> </u>
CHARGE TO:	531169	RIG N AND	AME NUMBER	
	· · · · · · · · · · · · · · · · · · ·	TYPE OF MATERIAL	· ·	
	[] Production Water	[] Drilling Fluids	[] Rinsate	
	[] Tank Bottoms	Contaminated Soil	[] Jet Out	
	[] Solids	[] BS&W Content:	[] Call Out	
Descriptio	n:	·		
RRC or API #			C-133#	
VOLUME OF MATE	RIAL []BBLS.	: XI YARD	<i>λ</i> : <u>μ</u>	
ASSOCIATED N GEOTHERMAL ALSO AS A C TICKET. TRAN OPERATOR/SH FACILITY FOR THIS WILL CL above describe	WITH THE EXPLORATION, DE ENERGY. ONDITION TO SUNDANCE SE ISPORTER REPRESENTS / IPPER TO TRANSPORTER IS DISPOSAL. ERTIFY that the above Transp ed location, and that it was te	VELOPMENT OR PRODUCTION OF RVICES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPORT	DUCED WATERS, AND OTHER WASTE CRUDE OIL OR NATURAL GAS OF MATERIALS SHIPPED WITH THIS JOE THE MATERIAL DELIVERED BY ER TO SUNDANCE SERVICES, INC.'S of by this Transporter Statement at the per. This will certify that no additional cident.	2 2
(SIGN)		ie Roma		
)	, ,	Canary - Sundance Acct #1	Pink - Transporter	

· [1	LEASE OPERATOR/SHIPPER/COMPANY:
.	LEASE NAME: 1 6 L 6 F
	TRANSPORTER COMPANY: RANK LEWES TK TIME 11:35 (AM/PM
	DATE: 2/11/2013 VEHICLE NO: R-1 GENERATOR COMPANY (). STOLLOUT
	CHARGE TO: RIG NAME AND NUMBER
	TYPE OF MATERIAL
	[] Production Water [] Drilling Fluids [] Rinsate [] Tank Bottoms [] Contaminated Soil [] Jet Out [] Solids [] BS&W Content: [] Call Out Description: []
	RRC or API # C-133#
	VOLUME OF MATERIAL []BBLS:
	TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S
	FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. DRIVER: (stoMATURE) FACILITY REPRESENTATIVE:

	P.O. Box 1737 Eunice, New Mexico 8 (575) 394-2511 TOR/SHIPPER/COMPANY:		
LEASE NAME:			
TRANSPORTE	COMPANY:	TIME	1:21 AM/PM
DATE: 2.11	R. W. I. K. Lord 1	GENERATOR COMPANY	ACULER
CHARGE TO:	5/16	RIG NAME AND NUMBER	
	TYPE	OF MATERIAL	
	[] Tank Bottoms] Drilling Fluids [] Rinsate [] Contaminated Soil [] Jet Out] BS&W Content: [] Call Out	
Descr	iption:	i bow content.	
RRC or AP1 #		C-133#	
VOLUME OF N	IATERIAL []BBLS:	[/] YARD:	[]
TICKET, C	PERATOR/SHIPPER REPRESENTS AND W	C/S ACCEPTANCE OF THE MATERIALS SHIPPED ARRANTS THAT THE WASTE MATERIAL SHIPPEI VATION AND RECOVERY ACT OF 1976, AS AMENI	d herewith is
TICKET, C MATERIA TO TIME, THERETO ASSOCIA GEOTHEF ALSO A TICKET. OPERATC FACILITY THIS WII above det	DERATOR/SHIPPER REPRESENTS AND W LEXEMPT FROM THE RESOURCE, CONSER 40 U.S.C. § 6901, et seq., THE NM HEALTH BY VIRTUE OF THE EXEMPTION AFFORD FED WITH THE EXPLORATION, DEVELOPM MAL ENERGY. S A CONDITION TO SUNDANCE SERVICES, TRANSPORTER REPRESENTS AND W R/SHIPPER TO TRANSPORTER IS NOW E FOR DISPOSAL.	ARRANTS THAT THE WASTE MATERIAL SHIPPEI VATION AND RECOVERY ACT OF 1976, AS AMENI AND SAF. CODE § 361.001 et seq., AND REGULA ED DRILLING FLUIDS, PRODUCED WATERS, AND MENT OR PRODUCTION OF CRUDE OIL OR NA INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED (ARRANTS THAT ONLY THE MATERIAL DELIVERED BY TRANSPORTER TO SUNDANCE S aded the material represented by this Transporter to by the above described shipper. This will certify th	D HEREWITH IS DED FROM TIME TIONS RELATED O OTHER WASTE TURAL GAS OR D WITH THIS JOB DELIVERED BY DELIVERED BY DERVICES, INC'S

P.O. Box 1737 Eunice, New Mexico 8 (575) 394-2511	ES, Inc. 88231 TICKET No. 235591
	IG
LEASE NAME:	
TRANSPORTER COMPANY:	Laras TRK TIME 3:11 AMP
DATE: 2+11. 2013 VEHICLE NO: R-	
CHARGE TO: 500	RIG NAME AND NUMBER
ТҮРІ	E OF MATERIAL
[] Production Water	[] Drilling Fluids [] Rinsate
[] Tank Bottoms	Contaminated Soil [] Jet Out
[] Solids	[] BS&W Content: [] Call Out
Description:	
RRC or API #	C-133#
VOLUME OF MATERIAL []BBLS.	: /] YARD_20_: []
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LEAS	E NAME:	Let to F	ον			
TRAN	SPORTER COM	APANY: ALVI	des The	זוד	MEGUIXA	Μ/Ρ
DATE	2-11-20	13 VEHICLE NO:	GENER	MAN'S NAME:	Acute	
CHAR	GE TO:	5116		S NAME ID NUMBER		
			TYPE OF MATERIAL			
		[] Production Water	[] Drilling Fluids	[] Rinsate	2	
		[] Tank Bottoms	Contaminated Soil	[] Jet Out		
		[] Solids	[] BS&W Content:	[] Call Ou	-	
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