

### **REMEDIATION SUMMARY AND**

### **RISK-BASED SOIL CLOSURE REQUEST**

ETC FIELD SERVICES, LLC

A-14 Slug Overflow Lea County, New Mexico UNIT LTR "H", Section 6, Township 24 South, Range 35 East, NMPM Latitude 32.246192° North, Longitude 103.402000° West NMOCD Reference # 1RP-4328

### **APPROVED**

By Olivia Yu at 7:37 am, Sep 07, 2017

Prepared For:

**ETC Field Services, LLC** 800 East Sonterra San Antonio, Texas 78258

Prepared By:

**TRC Environmental Corporation** 2057 Commerce Midland, Texas 79703

NMOCD grants closure to 1RP-4328 with the exception of the portion indicated on Figure 2. Additional delineation and remediation for the specified areas will be deferred until site TOA.

August 2017

Authin Sucen for Joel Lowry

Joel Lowry Project Manager

Senior Project Manager

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#### **INTRODUCTION**

TRC Environmental Corporation (TRC), on behalf of ETC Field Services, LLC (ETC), has prepared this *Remediation Summary and Risk-Based Soil Closure Request* for the Release Site known as A-14 Slug Overflow. The legal description of the Release Site is Unit Letter "H", Section 6, Township 24 South, Range 35 East, in Lea County, New Mexico. The subject property is administered by the United States Bureau of Land Management (BLM). The GPS coordinates for the site are N 32.246192° W 103.246192°. Please reference Figure 1 for the Site Location Map and Figure 2 for the Site Details and Soil Sample Locations Map. The Release Notification and Corrective Action (Form C-141) is provided as Appendix D.

On December 27, 2011, ETC discovered a release at the A-14 Compressor Station. The initial Form C-141 indicated an alternate gas producer experienced a malfunction at a nearby facility, resulting in a "slug" of crude oil being transported through the gathering line to the Southern Union A-14 Compressor Station. On entering the station, the oil slug encountered a field scrubber unit, used to separate liquids from the natural gas stream. The field scrubber dumped the liquids to the condensate storage tank. Due to the large slug of liquids, the 210 barrel (bbl) condensate tank was unable to contain the volume of the slug. The tank overflowed into the secondary containment, which had been sized to contain the required volume. The volume of the slug was greater than the volume of the secondary containment, which resulted in the release of approximately eight (8) bbls of crude oil. During initial response activities the release site was secured and a vacuum truck was utilized to recover free standing oil. The release affected an area measuring approximately one thousand three hundred (1,300) square feet (sq. ft.). General photographs of the site are provided as Appendix B.

#### NMOCD SITE CLASSIFICATION

A groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) did not identify any registered water wells in Section 6, Township 24 South, Range 35 East. A reference map utilized by the NMOCD Hobbs District Office, indicates groundwater should be encountered at approximately two hundred and twenty-five (225) feet (ft.) below ground surface (bgs). Based on the NMOCD site classification system, zero (0) points will be assigned to the Release Site as a result of this criterion.

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

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

The NMOCD guidelines indicate the A-14 Slug Overflow Release Site has a ranking score of zero (0). Based on this score, the soil remediation levels for a site with a ranking score of zero (0) points are as follows:

• Benzene – 10 mg/kg (ppm)'

- Benzene, toluene, ethylbenzene, and xylenes (BTEX) 50 mg/kg (ppm)
- Total Petroleum Hydrocarbons (TPH) 5,000 mg/kg (ppm)
- Chloride 1,000 mg/kg (ppm) with delineation to 250 mg/Kg

#### SUMMARY OF SOIL REMEDIATION ACTIVITIES

On June 12, 2013, TRC conducted an initial investigation at the release site. During the initial investigation, delineation trenches were advanced within the release margins on the northern, eastern, southern and western sides of the secondary containment area in an effort to determine the vertical and horizontal extent of soil impact. During the advancement of the delineation trenches, four (4) confirmation soil samples (East Trench @ 4', North Trench @ 3', South Trench @ 3' and West Trench (2) 1') were collected and submitted under chain-of-custody to Xenco Laboratories of Midland, Texas, for analysis of benzene, BTEX, TPH and chloride concentrations. Laboratory analytical results indicated benzene concentrations ranged from less than the applicable laboratory method detection limit (MDL) in soil samples North Trench @ 3', South Trench @ 3' and West Trench @ 1' to 0.00586 mg/kg in soil sample East Trench @ 4'. Analytical results indicated BTEX concentrations ranged from less than the applicable laboratory MDL in soil samples North Trench (a) 3', South Trench (a) 3' and West Trench (a) 1' to 0.0355 mg/kg in soil sample East Trench (a) 4'. Analytical results indicated TPH concentrations ranged from less than the laboratory MDL in soil samples North Trench @ 3' and West Trench @ 1' to 67.1 mg/kg in soil sample South Trench (a) 3'. Chloride concentrations ranged from 34.1 mg/kg in soil sample East Trench (a) 4' to 351 mg/kg in soil sample South Trench @ 3'. Based on laboratory analytical results from the collected soil samples, soils were determined not to be affected above the applicable NMOCD Recommended Remediation Action Levels (RRALs) beyond four (4) ft. bgs in the area represented East Trench, three (3) ft. bgs in the area represented North Trench, three (3) ft. bgs in the area represented South Trench, and one (1) ft. bgs in the area represented by West Trench. Laboratory analytical results are summarized in Table 1 - Concentrations of Benzene, BTEX, TPH, and Chloride in Soil.

On June 13, 2013, delineation trenches North Trench and South Trench were advanced an additional one (1) ft. in an effort to further delineate the vertical extent of chloride impact in accordance with former industry practices. During the advancement of the delineation trenches, two (2) soil samples (North Trench @ 4' and South Trench @ 4') were collected and submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride. Laboratory analytical results indicated BTEX and TPH concentrations were less than the applicable laboratory MDL in each of the submitted soil samples. Analytical results indicated soil samples North Trench @ 4' and South Trench @ 4' exhibited chloride concentrations of 204 mg/kg and 69.7 mg/kg, respectively.

Upon determining the vertical extent of chloride impacts, excavation activities commenced at the release site. The floor and sidewalls of the excavation were advanced until field-test results indicated BTEX, TPH and chloride concentrations were below the applicable NMOCD RRALs. Excavated soil was stockpiled on-site, pending final disposition. Excavation of impacted soil beneath the secondary containment and associated condensate storage tanks was limited in an effort to maintain the integrity of secondary containment and associated southern sides of the secondary containment, two (2) confirmation soil samples (BH-1 @ 2' and BH-2 @ 2') were collected from

the base of the excavated area and submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride. Laboratory analytical results indicated benzene, BTEX, TPH and chloride concentrations were below the applicable NMOCD RRAL in each of the submitted soil samples. Excavation activities continued toward the east, south and west.

On June 17, 2013, TRC collected four (4) confirmation soil samples (BH-3 @ 3', WSW-1 @ 1', SSW-1 @ 1' and ESW-1 @ 2') from the floor and sidewalls of the excavated area and submitted them to the laboratory for analysis of benzene, BTEX, TPH and chloride. Laboratory analytical results indicated benzene, BTEX, TPH and chloride concentrations were below the applicable NMOCD RRAL in each of the submitted soil samples. Excavation activities continued toward the north.

On June 19, 2013, TRC collected two (2) delineation soil samples (WSW-1A @ 2' and ESW-1A @ 2') from the areas characterized by soil samples WSW-1 @ 1' and ESW-1 @ 2' in an effort to further delineate the vertical and horizontal extent of chloride impact in accordance with former industry practices. The collected soil samples were submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated soil samples WSW-1A @ 2' and ESW-1A @ 2' exhibited chloride concentrations of 19.9 mg/kg and 9.53 mg/kg, respectively. Excavation activities continued at the release site.

On June 21, 2017, TRC collected one (1) confirmation soil sample (NSW-1A @ 2') from the north sidewall of the excavated area and submitted the sample to the laboratory for analysis of benzene, BTEX, TPH and chloride concentrations, which were determined to be below the NMOCD RRAL. In accordance with former industry practices, one (1) delineation soil sample (SSW-1A @ 2') was collected from the area characterized by soil sample SSW-1 @ 1' and submitted to the laboratory for analysis of chloride concentrations, which were determined to be 81.3 mg/kg.

In addition, four (4) soil samples (Containment EW @ 2', Containment NW @ 2', Containment SW @ 1' and Containment WW @ 1') were collected from unexcavated soil beneath the secondary containment and associated condensate storage tanks in an effort to characterize affected soil remaining in-situ. The collected soil samples were submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride. Laboratory analytical results indicated benzene, BTEX, TPH and chloride. Laboratory analytical results indicated benzene, BTEX, TPH and chloride. Laboratory analytical results indicated benzene, BTEX, TPH and chloride concentrations were below the NMOCD RRAL in each of the submitted soil samples with the exception of the TPH concentration in soil sample Containment NW @ 2' (9,370 mg/kg) and the chloride concentrations in soil samples Containment EW @ 2' (1,120 mg/kg) and Containment NW @ 2' (1,430 mg/kg). ETC maintains additional excavation of affected soil beneath the secondary containment poses a safety risk and could compromise the integrity of the secondary containment and associated condensate storage tanks.

On June 26, 2013, TRC collected one (1) additional soil sample (Containment NW-1 @ 2') from the area represented by soil sample Containment NW @ 2' in an effort to further characterize the impacted soil remaining in-situ. The collected soil sample was submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride. Laboratory analytical results indicated benzene, BTEX and chloride concentrations were below the applicable NMOCD RRAL and the concentration of TPH was 6,886 mg/kg.

Upon receiving laboratory analytical results from confirmation soil samples and NMOCD approval, the excavated area was backfilled with locally-purchased, non-impacted caliche. Prior

to backfilling, the final dimensions of the excavated area were approximately one hundred ten (110) ft. in length, fifteen (15) to forty (40) ft. in width and one (1) to three (3) ft. in depth.

On June 24 and 25, 2017, approximately three hundred and sixty (360) cubic yards (cy) of impacted soil was transported to Sundance Services, Inc. (NMOCD Permit No. NM1-3-0) for disposal. Copies of waste manifests are provided as Appendix C.

Prior to the preparation of a *Remediation Summary and Soil Closure Proposal*, the A-14 Slug Overflow remediation project came under the management of alternative environmental professionals. It is unknown if additional remediation activities were conducted at the site.

In March of 2017, TRC was reassigned oversight of the A-14 Slug Overflow site. On June 19, 2017, TRC revisited the release site. During the site visit, three (3) soil samples (WSW-1a @ 2', Containment EWa @ 2' and Containment NWa @ 2') were collected from the areas characterized by soil samples collected during June of 2013 (WSW-1A @ 2', Containment EW @ 2' and Containment NW @ 2') in an effort to determine if additional remediation activities had been conducted and/or if impacted soil affected above the NMOCD RRAL remained in-situ. The collected soil samples were submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride. Laboratory analytical results indicate benzene, BTEX, TPH and chloride concentrations were below the NMOCD RRAL in each of the submitted soil samples.

#### SITE CLOSURE REQUEST

Impacted soil within the release margins was excavated to the maximum extent practicable and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples collected from the floor and sidewalls of the excavated area indicated benzene, BTEX, TPH and chloride concentrations were below the NMOCD RRAL in each of the submitted soil samples. Analytical results from soil samples collected from affected soil beneath the secondary above-ground tank containment remaining in-situ indicated concentrations of chloride and/or TPH exceeded the NMOCD RRAL in soil beneath the northern and eastern portions of the fiberglass containment. ETC maintains additional excavation of affected soil beneath the northern and eastern portions of the secondary containment poses a safety risk and could compromise the integrity of the secondary containment and associated condensate storage tanks.

Based on laboratory analytical results and field activities conducted to date, TRC recommends ETC provide copies of this *Remediation Summary and Risk-Based Soil Closure Request* and request the NMOCD and BLM grant closure status to the A-14 Compressor Slug Overflow Release Site. Affected soil impacted above the NMOCD RRAL potentially remaining in-situ beneath the secondary above-ground storage tank containment will be further investigated and/or remediated upon abandoning and decommissioning the facility (TOA).

#### LIMITATIONS

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

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

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

#### DISTRIBUTION

Copy 1: Olivia Yu New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (District 1) 1625 French Drive Hobbs, New Mexico 88240 Copy 2: Randall Pair Carlsbad Field Office United States Department of the Interior Bureau of Land Management 620 E. Greene Street Carlsbad, New Mexico 88220 Copy 3: Rose Slade ETC Field Services, LLC 800 East Sonterra San Antonio, Texas 78258 Copy 4: TRC Environmental Corporation 2057 Commerce Street Midland, Texas 79703





#### TABLE 1

#### CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

#### SOUTHERN UNION GAS SERVICES A-14 SLUG OVERFLOW HISTORICAL RELEASE SITE LEA COUNTY, NEW MEXICO NMOCD REFERENCE # 1RP-4328 All concentrations are reported in mol/Se

					METHODS:	SW 846-8021b				METHOD: S	SW 8015M		E 300.1
SAMPLE LOCATION	SAMPLE	SOIL			ETHVI			TOTAL	TPH	ТРН	TPH	TOTAL	
SAMPLE LOCATION	DATE	STATUS	BENZENE	TOLUENE	EINTENE	m, p -	0 - VVI ENE	DIAL	GRO	DRO	ORO	TPH	CHLORIDE
					DEINZEINE	AILENES	ATLENE	DILA	C6-C12	C12-C28	C28-C35	C6-C35	
East Trench @ 4'	06/12/13	In-situ	0.00586	< 0.00199	0.00310	0.0187	0.00786	0.0355	<15.0	42.4	<15.0	42.4	34.1
North Trench @ 3'	06/12/13	In-Situ	< 0.00107	< 0.00215	< 0.00107	< 0.00215	< 0.00107	< 0.00215	<15.0	<15.0	<15.0	<15.0	268
South Trench @ 3'	06/12/13	In-Situ	< 0.000992	< 0.00198	< 0.000992	< 0.00198	< 0.000992	< 0.00198	<15.0	67.1	<15.0	67.1	351
West Trench @ 1'	06/12/13	In-Situ	< 0.00106	< 0.00211	< 0.00106	< 0.00211	< 0.00106	< 0.00211	<15.0	<15.0	<15.0	<15.0	62.3
North Trench @ 4'	06/13/13	In-Situ	< 0.00113	< 0.00226	< 0.00113	< 0.00226	< 0.00113	< 0.00226	<14.9	<14.9	<14.9	<14.9	204
South Trench @ 4'	06/13/13	In-Situ	< 0.000994	< 0.00199	< 0.000994	< 0.00199	< 0.000994	< 0.00199	<14.9	<14.9	<14.9	<14.9	69.7
BH-1 @ 2'	06/13/13	In-Situ	< 0.00109	< 0.00218	< 0.00109	< 0.00218	< 0.00109	< 0.00218	<14.9	<14.9	<14.9	<14.9	370
BH-2 @ 2'	06/13/13	In-Situ	< 0.00100	< 0.00201	< 0.00100	< 0.00201	< 0.00100	< 0.00201	<14.9	<14.9	<14.9	<14.9	88.9
BH-3 @ 3'	06/17/13	In-Situ	< 0.00108	< 0.00216	< 0.00108	< 0.00216	< 0.00108	< 0.00216	<16.1	121	<16.1	121	705
WSW-1 @ 1'	06/17/13	In-Situ	< 0.00101	< 0.00202	< 0.00101	< 0.00202	< 0.00101	< 0.00202	<15.2	186	34.0	220	420
SSW-1 @ 1'	06/17/13	In-Situ	< 0.00105	< 0.00211	< 0.00105	< 0.00211	< 0.00105	< 0.00211	<15.8	<15.8	<15.8	<15.8	766
ESW-1 @ 2'	06/17/13	In-Situ	< 0.00105	< 0.00211	< 0.00105	< 0.00211	< 0.00105	< 0.00211	<15.9	<15.9	<15.9	<15.9	628
WSW-1A @ 2'	06/19/13	In-Situ	-	-	-	-	-	-	-	-	-	-	19.6
ESW-1A @ 2'	06/19/13	In-Situ	-	-	-	-	-	-	-	-	-	-	9.53
NSW-1A @ 2'	06/21/13	In-Situ	< 0.00105	< 0.00209	< 0.00105	< 0.00209	< 0.00105	< 0.00209	<15.9	172	29	201	106
SSW-1A @ 2'	06/21/13	In-Situ	-	-	-	-	-	-	-	-	-	-	81.3
Containment EW @ 2'	06/21/13	In-Situ	< 0.00108	< 0.00216	< 0.00108	< 0.00216	< 0.00108	< 0.00216	<16.4	133	39.1	172.1	1,120
Containment NW @ 2'	06/21/13	In-Situ	< 0.00110	< 0.00221	< 0.00110	< 0.00221	0.00796	0.00796	633	7760	977	9,370	1,430
Containment SW @ 1'	06/21/13	In-Situ	< 0.00104	< 0.00208	< 0.00104	< 0.00208	< 0.00104	< 0.00208	<15.6	264.0	48.9	312.9	1,000
Containment WW @ 1'	06/21/13	In-Situ	< 0.00103	< 0.00206	< 0.00103	< 0.00206	< 0.00103	< 0.00206	<15.6	42.9	<15.6	42.9	106
Containment NW-1 @ 2'	06/26/13	In-Situ	< 0.00109	0.0100	0.0139	0.0517	0.0439	0.1195	1360	5190	336	6,886	613
WSW-1a @ 2'	06/19/17	In-Situ	< 0.00199	< 0.00199	< 0.00199	< 0.00398	< 0.00199	< 0.00398	<15.0	<15.0	<15.0	<15.0	90.2
Containment EWa @ 2'	06/19/17	In-Situ	< 0.00198	< 0.00198	< 0.00198	< 0.00396	< 0.00198	< 0.00396	<15.0	559	162	721	421
Containment NWa @ 2'	06/19/17	In-Situ	< 0.00200	< 0.00200	< 0.00200	< 0.00401	< 0.00200	< 0.00401	<15.0	747	142	889	61.9
NMOCD Regulatory Limit			10	-	-	-	-	50	-	-	-	5,000	1,000

# Analytical Report 465079

## for Southern Union Gas Services- Monahans

Project Manager: Camille Bryant

**SUG A-14 Compressor Station** 

### 20-JUN-13

Collected By: Client





#### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



20-JUN-13



Project Manager: **Camille Bryant Southern Union Gas Services- Monahans** 801 South Loop 464 Monahans, TX 79756

Reference: XENCO Report No(s): 465079 SUG A-14 Compressor Station Project Address: Lea County, New Mexico

#### **Camille Bryant**:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 465079. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 465079 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully.

Kelsey Brooks Project Manager

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

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



### Sample Cross Reference 465079



### Southern Union Gas Services- Monahans, Monahans, TX

SUG A-14 Compressor Station

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	06-12-13 10:30		465079-001
S	06-12-13 11:45		465079-002
S	06-12-13 14:30		465079-003
S	06-12-13 16:00		465079-004
S	06-13-13 10:15		465079-005
S	06-13-13 11:00		465079-006
S	06-13-13 12:30		465079-007
S	06-13-13 13:45		465079-008
	Matrix S S S S S S S S S	MatrixDate CollectedS06-12-13 10:30S06-12-13 11:45S06-12-13 14:30S06-12-13 16:00S06-13-13 10:15S06-13-13 11:00S06-13-13 12:30S06-13-13 13:45	MatrixDate CollectedSample DepthS06-12-13 10:30S06-12-13 11:45S06-12-13 14:30S06-12-13 16:00S06-13-13 10:15S06-13-13 11:00S06-13-13 12:30S06-13-13 13:45



### CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans Project Name: SUG A-14 Compressor Station

Project ID: Work Order Number(s): 465079 
 Report Date:
 20-JUN-13

 Date Received:
 06/14/2013

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



**Project Id:** 

Contact: Camille Bryant

### Certificate of Analysis Summary 465079

Southern Union Gas Services- Monahans, Monahans, TX

Project Name: SUG A-14 Compressor Station



Date Received in Lab: Fri Jun-14-13 11:00 am

Report Date: 20-JUN-13

roject Location: Lea County, New Mexico								Report	Date:	20-JUN-13			
								Project Ma	nager:	Kelsey Brook	s		
	Lab Id:	465079-0	001	465079-0	02	465079-	003	465079-0	004	465079-0	005	465079-	-006
Anghaia Deguastad	Field Id:	East Trench	@ 4'	North Trench	n @ 3'	South Trend	ch @ 3'	West Trench	n @ 1'	North Trench	h @ 4'	South Tren	ch @ 4'
Analysis Kequesiea	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOII	L
	Sampled:	Jun-12-13	10:30	Jun-12-13	1:45	Jun-12-13	14:30	Jun-12-13	16:00	Jun-13-13	10:15	Jun-13-13	11:00
BTEX by EPA 8021B	Extracted:	Jun-17-13	08:00	Jun-17-13 (	08:00	Jun-17-13	08:00	Jun-17-13	08:00	Jun-17-13 (	08:00	Jun-17-13	08:00
	Analyzed:	Jun-17-13	16:46	Jun-17-13	3:02	Jun-17-13	13:51	Jun-17-13	14:08	Jun-17-13	14:24	Jun-17-13	15:46
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene	-	0.00586	0.000996	ND	0.00107	ND	0.000992	ND	0.00106	ND	0.00113	ND	0.000994
Toluene		ND	0.00199	ND	0.00215	ND	0.00198	ND	0.00211	ND	0.00226	ND	0.00199
Ethylbenzene		0.00310	0.000996	ND	0.00107	ND	0.000992	ND	0.00106	ND	0.00113	ND	0.000994
m,p-Xylenes		0.0187	0.00199	ND	0.00215	ND	0.00198	ND	0.00211	ND	0.00226	ND	0.00199
o-Xylene		0.00786	0.000996	ND	0.00107	ND	0.000992	ND	0.00106	ND	0.00113	ND	0.000994
Total Xylenes		0.0266	0.000996	ND	0.00107	ND	0.000992	ND	0.00106	ND	0.00113	ND	0.000994
Total BTEX		0.0355	0.000996	ND	0.00107	ND	0.000992	ND	0.00106	ND	0.00113	ND	0.000994
Inorganic Anions by EPA 300/300.1	Extracted:	Jun-18-13	10:00	Jun-18-13	10:00	Jun-18-13	10:00	Jun-18-13	10:00	Jun-18-13	10:00	Jun-18-13	10:00
	Analyzed:	Jun-19-13	00:08	Jun-19-13 (	00:29	Jun-19-13	00:51	Jun-19-13	01:34	Jun-19-13	01:56	Jun-19-13	02:18
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		34.1	4.00	268	10.0	351	10.0	62.3	10.0	204	40.0	69.7	10.0
Percent Moisture	Extracted:												
	Analyzed:	Jun-18-13	12:08	Jun-18-13	2:08	Jun-18-13	12:08	Jun-18-13	12:08	Jun-18-13	12:08	Jun-18-13	12:08
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		1.88	1.00	7.27	1.00	6.73	1.00	5.42	1.00	12.0	1.00	7.52	1.00
TPH By SW8015 Mod	Extracted:	Jun-17-13	13:00	Jun-17-13	13:00	Jun-17-13	13:00	Jun-17-13	13:00	Jun-17-13	13:00	Jun-17-13	13:00
	Analyzed:	Jun-17-13	23:03	Jun-17-13 2	23:28	Jun-17-13	23:53	Jun-18-13	00:18	Jun-18-13 (	01:59	Jun-18-13	02:24
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	15.0	ND	15.0	ND	15.0	ND	15.0	ND	14.9	ND	14.9
C12-C28 Diesel Range Hydrocarbons		42.4	15.0	ND	15.0	67.1	15.0	ND	15.0	ND	14.9	ND	14.9
C28-C35 Oil Range Hydrocarbons		ND	15.0	ND	15.0	ND	15.0	ND	15.0	ND	14.9	ND	14.9
Total TPH		42.4	15.0	ND	15.0	67.1	15.0	ND	15.0	ND	14.9	ND	14.9

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

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Kelsey Brooks Project Manager



**Project Id:** 

Contact: Camille Bryant

Project Location: Lea County, New Mexico

### Certificate of Analysis Summary 465079

Southern Union Gas Services- Monahans, Monahans, TX

Project Name: SUG A-14 Compressor Station



Date Received in Lab: Fri Jun-14-13 11:00 am

Report Date: 20-JUN-13

Project Manager: Kelsey Brooks

	Lab Id:	465079-0	007	465079-00	08		
An aluaia Demonste I	Field Id:	BH-1 @	2'	BH-2 @ 2	2'		
Anaiysis Kequestea	Depth:						
	Matrix:	SOIL		SOIL			
	Sampled:	Jun-13-13	12:30	Jun-13-13 1	3:45		
BTEX by EPA 8021B	Extracted:	Jun-17-13 (	08:00	Jun-17-13 0	8:00		
	Analyzed:	Jun-17-13	14:56	Jun-17-13 1	5:13		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		ND	0.00109	ND	0.00100		
Toluene		ND	0.00218	ND	0.00201		
Ethylbenzene		ND	0.00109	ND	0.00100		
m,p-Xylenes		ND	0.00218	ND	0.00201		
o-Xylene		ND	0.00109	ND	0.00100		
Total Xylenes		ND	0.00109	ND	0.00100		
Total BTEX		ND	0.00109	ND	0.00100		
Inorganic Anions by EPA 300/300.1	Extracted:	Jun-18-13	10:00	Jun-18-13 1	0:00		
	Analyzed:	Jun-19-13 (	02:39	Jun-19-13 0	3:01		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		370	10.0	88.9	10.0		
Percent Moisture	Extracted:						
	Analyzed:	Jun-18-13	12:08	Jun-18-13 1	2:08		
	Units/RL:	%	RL	%	RL		
Percent Moisture		9.13	1.00	5.12	1.00		
TPH By SW8015 Mod	Extracted:	Jun-17-13	13:00	Jun-17-13 1	3:00		
	Analyzed:	Jun-18-13 (	02:49	Jun-18-13 0	3:14		
	Units/RL:	mg/kg	RL	mg/kg	RL		
C6-C12 Gasoline Range Hydrocarbons		ND	14.9	ND	14.9		
C12-C28 Diesel Range Hydrocarbons		ND	14.9	ND	14.9	 	
C28-C35 Oil Range Hydrocarbons		ND	14.9	ND	14.9	 	
Total TPH		ND	14.9	ND	14.9		

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

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Kelsey Brooks Project Manager

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## **Flagging Criteria**



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

LOD Limit of Detection

\* Surrogate recovered outside laboratory control limit.

- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection Limit
   SDL Sample Detection Limit
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(214) 902 0300

Final 1.000

Fax

(281) 240-4280

(214) 351-9139



# Project Name: SUG A-14 Compressor Station

Vork Orders : 465079	),		Project II	):		
Lab Batch #: 916356         Sample: 465079-002 / SMP         Batch: 1         Matrix: Soil						
Units: mg/kg	Date Analyzed: 06/17/13 13:02	SU	RROGATE RF	<b>ECOVERY</b>	STUDY	
ВТЕХ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0268	0.0300	89	80-120	
4-Bromofluorobenzene		0.0346	0.0300	115	80-120	
Lab Batch #: 916356	Sample: 465079-003 / SMP	Batcl	h: <sup>1</sup> Matrix:	Soil		
Units: mg/kg	Date Analyzed: 06/17/13 13:51	SU	RROGATE RE	<b>ECOVERY</b>	STUDY	
BTEX	X by EPA 8021B Analvtes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0276	0.0300	92	80-120	
4-Bromofluorobenzene		0.0351	0.0300	117	80-120	
Lab Batch #: 916356	Sample: 465079-004 / SMP	Batcl	h: <sup>1</sup> Matrix:	:Soil	<u>ı                                    </u>	
<b>Units:</b> mg/kg	Date Analyzed: 06/17/13 14:08	SU	RROGATE RF	ECOVERY	STUDY	
BTEX	K by EPA 8021B Analvtes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0318	0.0300	106	80-120	
4-Bromofluorobenzene		0.0347	0.0300	116	80-120	
Lab Batch #: 916356	Sample: 465079-005 / SMP	Batcl	h: 1 Matrix:	Soil	·	
Units: mg/kg	Date Analyzed: 06/17/13 14:24	SU	RROGATE RF	COVERY	STUDY	
BTEX	A polytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 4-Difluorobenzene	Allalytes	0.0271	0.0300	90	80-120	
4-Bromofluorobenzene		0.0271	0.0300	116	80-120	
Lah Batch #: 916356	Sample: 465079-007 / SMP	Bate	h: 1 Matrix:	· Soil	<u>                                      </u>	
Units: mg/kg	Date Analyzed: 06/17/13 14:56	SU	RROGATE RF	ECOVERY S	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0248	0.0300	83	80-120	
4-Bromofluorobenzene		0.0328	0.0300	109	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution



# Project Name: SUG A-14 Compressor Station

Vork Orders : 465079	),		Project II	):		
Lab Batch #: 916356	Sample: 465079-008 / SMP	Batcl	h: <sup>1</sup> Matrix:	Soil		
Units: mg/kg	Date Analyzed: 06/17/13 15:13	SU	RROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0244	0.0300	81	80-120	
4-Bromofluorobenzene		0.0308	0.0300	103	80-120	
Lab Batch #: 916356	Sample: 465079-006 / SMP	Batcl	h: <sup>1</sup> Matrix:	Soil		
Units: mg/kg	Date Analyzed: 06/17/13 15:46	SU	RROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4-Difluorobenzene		0.0276	0.0300	92	80-120	
4-Bromofluorobenzene		0.0347	0.0300	116	80-120	
Lab Batch #: 916356	Sample: 465079-001 / SMP	Batc	h: 1 Matrix:	Soil	I	
<b>Units:</b> mg/kg	Date Analyzed: 06/17/13 16:46	SU	RROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
1.4 Difluorobanzana	Anarytes	0.0210	0.0200	100	80.120	
4-Bromofluorobenzene		0.0319	0.0300	100	80-120	
Lab Datab # 016416	Secondary 465070-001 / SMD	Data	b. 1 Motriv	Soil	00 120	
Lao Balen #: 910410	Date Applyzed: 06/17/12 22:02	SU	RROGATE RE	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		98.3	99.9	98	70-135	
o-Terphenyl		51.5	50.0	103	70-135	
Lab Batch #: 916416	Sample: 465079-002 / SMP	Batcl	h: 1 Matrix:	Soil		
Units: mg/kg	Date Analyzed: 06/17/13 23:28	SU	RROGATE RI	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	-	106	99.8	106	70-135	
o-Terphenyl		57.1	49.9	114	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution



# Project Name: SUG A-14 Compressor Station

<b>Vork Orders :</b> 465079	), Samula 465070-002 / SMD	D - 4 -1	Project II			
Lab Batch #: 910410	Date Apply and 06/17/12 22:52	Batci SU	RROGATE RI	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes	102	100	[100	50.105	
1-Chlorooctane		102	100	102	70-135	
0-Terphenyi		55.0	50.2	110	/0-135	
Lab Batch #: 916416	Sample: 465079-004 / SMP	Batch	h: 1 Matrix	Soil		
Units: mg/kg	Date Analyzed: 06/18/13 00:18	SU	RROGATE RI	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		99.3	100	99	70-135	
o-Terphenyl		52.5	50.2	105	70-135	
L ah Batch #• 916416	Sample: 465079-005 / SMP	Batel	h. 1 Matrix	Soil		
Units: mg/kg	Date Analyzed: 06/18/13 01:59	SU	RROGATE RI	ECOVERY	STUDY	
TPH	TPH By SW8015 Mod		True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	1111197005	97.6	99.6	98	70-135	
o-Terphenyl		52.1	49.8	105	70-135	
Lab Batch #: 916416	Sample: 465079-006 / SMP	Batcl	h: 1 Matrix	:Soil	I	
Units: mg/kg	Date Analyzed: 06/18/13 02:24	SU	RROGATE RI	ECOVERY	STUDY	
TPH 1	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		97.6	99.5	98	70-135	
o-Terphenyl		52.6	49.8	106	70-135	
Lab Batch #: 916416	Sample: 465079-007 / SMP	Batch	n: 1 Matrix	Soil		
Units: mg/kg	Date Analyzed: 06/18/13 02:49	SU	RROGATE RI	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		94.6	99.5	95	70-135	
o-Terphenyl		50.5	49.8	101	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution



# Project Name: SUG A-14 Compressor Station

l,		Project II	):		
Sample: 465079-008 / SMP	) Batel	h: 1 Matrix:	Soil		
Date Analyzed: 06/18/13 03:14	SU	RROGATE RE	ECOVERY S	STUDY	
By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	95.8	99.6	96	70-135	
	51.2	49.8	103	70-135	
Sample: 639775-1-BLK / B	LK Batcl	h: 1 Matrix:	Solid		
Date Analyzed: 06/17/13 12:13	SU	RROGATE RE	COVERY S	STUDY	
K by EPA 8021B Analvtes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	0.0245	0.0300	82	80-120	
	0.0322	0.0300	107	80-120	
Sample: 639815-1-BLK / B	LK Batcl	h: <sup>1</sup> Matrix:	Solid	<u> </u>	
Date Analyzed: 06/17/13 20:04	SU	RROGATE RE	ECOVERY S	STUDY	
By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
	96.5	100	97	70-135	 
	52.6	50.1	105	70-135	
Sample: 639775-1-BKS / B	KS Batcl	h: 1 Matrix:	Solid		
Date Analyzed: 06/17/13 11:39	SU.	RROGATE RE	ECOVERY S	STUDY	
X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			נען		
	0.0261	0.0300	87	80-120	<u> </u>
	0.0347	0.0300	116	80-120	l
Sample: 639815-1-BKS / B	KS Batel	h: 1 Matrix:	Solid		
Date Analyzed: 06/17/13 19:10	SU.	RROGATE RE	ECOVERY S	STUDY	
By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	104	99.7	104	70-135	
	60.2	49.9	121	70-135	
	, Sample: 465079-008 / SMF Date Analyzed: 06/18/13 03:14 By SW8015 Mod Analytes Sample: 639775-1-BLK / B Date Analyzed: 06/17/13 12:13 K by EPA 8021B Analytes Sample: 639815-1-BLK / B Date Analyzed: 06/17/13 20:04 By SW8015 Mod Analytes Sample: 639775-1-BKS / B Date Analyzed: 06/17/13 11:39 K by EPA 8021B Analytes Sample: 639815-1-BKS / B Date Analyzed: 06/17/13 19:10 By SW8015 Mod Analytes	Sample:         465079-008 / SMP         Batel           Date Analyzed:         06/18/13         03:14         SU           By SW8015 Mod         Amount Found [A]         Amount Found [A]           Analytes         95.8         51.2           Sample:         639775-1-BLK / BLK         Batel           Date Analyzed:         06/17/13         12:13         SU           K by EPA 8021B         Amount Found [A]         Amount Found [A]           Analytes         0.0245         0.0322           Sample:         639815-1-BLK / BLK         Batel           Date Analyzed:         06/17/13         20:04           By SW8015 Mod         Amount Found [A]         Amount Found [A]           Analytes         96.5         52.6           Sample:         639775-1-BKS / BKS         Batel           Date Analyzed:         06/17/13         11:39           K by EPA 8021B         Amount Found [A]         Amount [A]           Analytes         0.0261         0.0347           Sample:         639815-1-BKS / BKS         Batel           Date Analyzed:         06/17/13         19:10           Supple:         639815-1-BKS / BKS         Batel           Date Analyzed:         06/	,       Project II         Sample: 465079-008 / SMP       Batch:       1       Matrix:         Date Analyzed: 06/18/13 03:14       SURROGATE RI         By SW8015 Mod       Amount       Found       Amount         Found       [A]       [B]       [B]         Analytes       95.8       99.6       [A]       [B]         Sample: 639775-1-BLK / BLK       Batch:       1       Matrix:         Date Analyzed: 06/17/13 12:13       SURROGATE RI       Amount       Found       [B]         Analytes       0.0245       0.0300       0.0322       0.0300         Sample: 639815-1-BLK / BLK       Batch:       1       Matrix:         Date Analyzed: 06/17/13 20:04       SURROGATE RI       By SW8015 Mod       Amount       True         Analytes       96.5       100       52.6       50.1         By SW8015 Mod       Amount       True       Amount       [B]         Analytes       96.5       100       52.6       50.1         Sample: 639775-1-BKS / BKS       Batch:       1       Matrix:         Date Analyzed: 06/17/13 11:39       SURROGATE RI       Amount       Found         [A]       [B]       Amount       [A]       [B]	Note         Project ID: Batch:         I         Matrix: Soil           Date Analyzed:         06/18/13 03:14         SURROGATE RECOVERY S           By SW8015 Mod         Amount Found [A]         True Analytes         Recovery %R           Analytes         99.6         96           95.8         99.6         96           Sample:         639775-1-BLK / BLK         Batch:         1         Matrix: Soild           Date Analyzed:         06/17/13 12:13         SURROGATE RECOVERY S         Soild           K by EPA 8021B         Amount Found [A]         True Amount [B]         Recovery %R         ID]           Analytes         0.0245         0.0300         82         ID]         ID]           Sample:         639815-1-BLK / BLK         Batch:         1         Matrix: Solid           Date Analyzed:         06/17/13 20:04         SURROGATE RECOVERY S         Batch:         1         Matrix: Solid           Date Analyzed:         06/17/13 20:04         SURROGATE RECOVERY S         Batch:         1         Matrix: Solid           By SW8015 Mod         Amount Found [A]         True Found [A]         Imount Bi         True Matrix: Solid         Recovery %R           Analytes         06/5         100         97 <td< td=""><td>Project ID: Batch:         I         Matrix: Soil           Date Analyzed:         06/18/13 03:14         SURROGATE         RECOVERY STUDY           By SW8015 Mod         Amount [A]         Amount [B]         Recovery %R         Control 1, mins %R           Analytes         95.8         99.6         96         70:135           Sample:         639775-1-BLK / BLK         Batch:         1         Matrix: Solid           Date Analyzed:         06/17/13 12:13         SURROGATE         RECOVERY STUDY           X by EPA 8021B         Amount [A]         Matrix: Solid         Eccovery %R         Control Limits %R           Analytes         0.0245         0.0300         82         80-120           0.0322         0.0300         107         80-120           Sample:         639815-1-BLK / BLK         Batch:         1         Matrix: Solid           Date Analyzed:         06/17/13 20:04         SURROGATE         Recovery %R         Control Limits           Analytes         [A]         [B]         Recovery %R         Control Limits           Matrix: Solid         SURROGATE         Recovery Recovery         Control Limits           Analytes         [A]         [B]         Recovery %R         Control Limits</td></td<>	Project ID: Batch:         I         Matrix: Soil           Date Analyzed:         06/18/13 03:14         SURROGATE         RECOVERY STUDY           By SW8015 Mod         Amount [A]         Amount [B]         Recovery %R         Control 1, mins %R           Analytes         95.8         99.6         96         70:135           Sample:         639775-1-BLK / BLK         Batch:         1         Matrix: Solid           Date Analyzed:         06/17/13 12:13         SURROGATE         RECOVERY STUDY           X by EPA 8021B         Amount [A]         Matrix: Solid         Eccovery %R         Control Limits %R           Analytes         0.0245         0.0300         82         80-120           0.0322         0.0300         107         80-120           Sample:         639815-1-BLK / BLK         Batch:         1         Matrix: Solid           Date Analyzed:         06/17/13 20:04         SURROGATE         Recovery %R         Control Limits           Analytes         [A]         [B]         Recovery %R         Control Limits           Matrix: Solid         SURROGATE         Recovery Recovery         Control Limits           Analytes         [A]         [B]         Recovery %R         Control Limits

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution



# Project Name: SUG A-14 Compressor Station

<b>Vork Orders :</b> 465079	,		Project II	):		
Lab Batch #: 910330		Batch	1: 1 Matrix:		ettinv	
Units: mg/kg BTE2	Date Analyzed: 06/17/13 11:56           X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes	ļ	, J	[D]		Í
1,4-Difluorobenzene		0.0261	0.0300	87	80-120	 I
4-Bromofluorobenzene		0.0354	0.0300	118	80-120	
Lab Batch #: 916416	Sample: 639815-1-BSD / BSD	) Batcł	a: 1 Matrix:	Solid		
Units: mg/kg	Date Analyzed: 06/17/13 19:37	SUI	<b>RROGATE RF</b>	<b>COVERY</b>	STUDY	
ТРН І	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		98.6	99.6	99	70-135	í
o-Terphenyl		56.0	49.8	112	70-135	
Lab Ratch #• 916356	Sample: 465079-002 S / MS	Batel		• Soil	<u>                                     </u>	
Units: mg/kg	Date Analyzed: 06/17/13 13:18	SU!	RROGATE RF	<b>ECOVERY</b> (	STUDY	
ВТЕУ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0342	0.0300	114	80-120	
4-Bromofluorobenzene		0.0348	0.0300	116	80-120	
Lab Batch #: 916416	Sample: 465079-004 S / MS	Batcl	n: 1 Matrix	:Soil	<u>ı                                    </u>	
Units: mg/kg	Date Analyzed: 06/18/13 00:43	SU!	RROGATE RF	<b>COVERY</b>	STUDY	
TPH J	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 Chloroostane	Analytes	102	100	102	70.125	i
o-Ternhenyl		57.7	50.2	102	70-135	
J -L Dotok #. 016356	<u>Somular</u> 465079-002 SD / MS	D Batel	. 1 Matrix	- Coil	10-155	
	Date Analyzadi 06/17/12 12:25		RROGATE R	SON FCOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0243	0.0300	81	80-120	 I
4-Bromofluorobenzene		0.0346	0.0300	115	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution



# Project Name: SUG A-14 Compressor Station

Work Orders : 465079,			Project II	):							
Lab Batch #: 916416	Sample: 465079-004 SD / M	ASD Batcl	h: <sup>1</sup> Matrix:	Soil							
Units: mg/kg	Date Analyzed: 06/18/13 01:08	SURROGATE RECOVERY STUDY									
TPH B	y SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
ľ	Marytes										
1-Chlorooctane		104	100	104	70-135						
o-Terphenyl		60.9	50.1	122	70-135						

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution





### Project Name: SUG A-14 Compressor Station

<b>Work Order #:</b> 465079							Proj	ect ID:					
Analyst: DYV	Da	ate Prepar	ed: 06/17/201	3		<b>Date Analyzed:</b> 06/17/2013							
Lab Batch ID: 916356 Sample: 639775-1-B	KS	Batch	n#: 1			Matrix: Solid							
Units: mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
BTEX by EPA 8021B Analytes	BTEX by EPA 8021BBlank Sample ResultSpikeBlank AddedBlank SpikeBlank 									Control Limits %RPD	Flag		
Benzene	<0.000994	0.0994	0.0865	87	0.0998	0.0899	90	4	70-130	35			
Toluene	<0.00199	0.0994	0.0862	87	0.0998	0.0890	89	3	70-130	35			
Ethylbenzene	< 0.000994	0.0994	0.0952	96	0.0998	0.103	103	8	71-129	35			
m,p-Xylenes	< 0.00199	0.199	0.179	90	0.200	0.193	97	8	70-135	35			
o-Xylene	< 0.000994	0.0994	0.0862	87	0.0998	0.100	100	15	71-133	35			
Analyst: AMB	Da	ate Prepar	ed: 06/18/201	3			Date A	nalyzed: 0	6/18/2013				
Lab Batch ID: 916736 Sample: 640003-1-B	KS	Batch	n#: 1					Matrix: S	olid				
Units: <sup>mg/kg</sup>		BLAN	K /BLANK S	PIKE / E	BLANK S	PIKE DUPI	JCATE 1	RECOVE	ERY STUD	Y			
Inorganic Anions by EPA 300/300.1 Analytes	ions by EPA 300/300.1 Blank Sample Result [A] Blank Spike Blank Added Spike Result [B] [C] [D]								Control Limits %R	Control Limits %RPD	Flag		
Chloride	<2.00	50.0	46.5	93	50.0	46.3	93	0	80-120	20			

Relative Percent Difference RPD =  $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] =  $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] =  $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes





### Project Name: SUG A-14 Compressor Station

Work Order #: 465079 Analyst: DYV Lab Batch ID: 916416	Sample: 639815-1-B	D: KS	ate Prepar Batcl	red: 06/17/201 h #: 1	3		Project ID: Date Analyzed: 06/17/2013 Matrix: Solid									
Units: mg/kg			BLAN	K/BLANK S	SPIKE / E	SLANK SPIKE DUPLICATE RECOVERY STUDY										
TPH By SW801	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag					
Analytes			[B]	[C]	[D]	[E]	Result [F]	[G]								
C6-C12 Gasoline Range Hydroca	rbons	<15.0	997	1050	105	996	1060	106	1	70-135	35					
C12-C28 Diesel Range Hydrocart	oons	<15.0	997	1080	108	996	1080	108	0	70-135	35					

Relative Percent Difference RPD =  $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] =  $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] =  $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



### Form 3 - MS Recoveries



### **Project Name: SUG A-14 Compressor Station**

Work Order #: 465079							
Lab Batch #: 916736			Pr	oject ID:			
Date Analyzed: 06/18/2013 Dat	e Prepared: 06/1	8/2013	A	Analyst: AMB			
QC- Sample ID: 465064-001 S	<b>Batch #:</b> 1		1	Matrix: So	oil		
Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUD						
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag	
Analytes	[A]	[B]	[-]		,		
Chloride	326	250	611	114	80-120		
Lab Batch #: 916736							
Date Analyzed: 06/19/2013 Dat	e Prepared: 06/1	8/2013	A	Analyst: A	MB		
QC- Sample ID: 465079-003 S	<b>Batch #:</b> 1		]	Matrix: So	oil		
Reporting Units: mg/kg	MATI	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY	
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag	
Analytes	[A]	[B]					
Chloride	351	250	638	115	80-120		

Matrix Spike Percent Recovery [D] = 100\*(C-A)/BRelative Percent Difference [E] = 200\*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



### Form 3 - MS / MSD Recoveries

#### **Project Name: SUG A-14 Compressor Station**



<b>Work Order # :</b> 465079						Project II	):					
Lab Batch ID: 916356	QC- Sample ID:	465079	-002 S	Ba	tch #:	1 Matri	x: Soil					
<b>Date Analyzed:</b> 06/17/2013	Date Prepared:	06/17/2	013	An	alyst: I	DYV						
Reporting Units: mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD	Control Limits %R	Control Limits %RPD	Flag	
Analytes	[A]	[B]	[0]	[D]	[E]	itesuite [1]	[G]	/0	/011	/one D		
Benzene	<0.00107	0.107	0.0912	85	0.108	0.0865	80	5	70-130	35		
Toluene	<0.00214	0.107	0.0857	80	0.108	0.0943	87	10	70-130	35		
Ethylbenzene	<0.00107	0.107	0.0909	85	0.108	0.0922	85	1	71-129	35		
m,p-Xylenes	<0.00214	0.214	0.178	83	0.215	0.176	82	1	70-135	35		
o-Xylene	< 0.00107	0.107	0.0876	82	0.108	0.0882	82	1	71-133	35		
<b>Lab Batch ID:</b> 916416	QC- Sample ID:	465079	-004 S	Ba	tch #:	1 Matri	x: Soil					
<b>Date Analyzed:</b> 06/18/2013	Date Prepared:	06/17/2	013	An	nalyst: I	DYV						
Reporting Units: mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY			
TPH By SW8015 Mod	Parent Sample Result	Spike	Spiked Sample Result	Spiked Sample %B	Spike	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD	Control Limits	Control Limits	Flag	
Analytes	[A]	[B]		[D]	[E]	Kcoutt [I']	[G]	/0	/01			
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	1030	103	1000	1070	107	4	70-135	35		

<15.0

1000

1100

110

1000

1130

Matrix Spike Percent Recovery [D] = 100\*(C-A)/BRelative Percent Difference RPD = 200\*|(C-F)/(C+F)|

C12-C28 Diesel Range Hydrocarbons

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

113

3

70-135

35





### **Project Name: SUG A-14 Compressor Station**

Work Order #: 465079

Lab Batch #: 916475				Project I	D:	
Date Analyzed: 06/18/2013 12:08	Date Prepar	ed: 06/18/2013	Anal	yst:WRU		
QC- Sample ID: 465076-001 D	Batch	n#: 1	Mat	rix: Soil		
<b>Reporting Units:</b> %		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture		Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte			[ <b>B</b> ]			
Percent Moisture		1.20	1.09	10	20	

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

Relinquis	Relinquis	Relinquis	Special		80	10	00	20	Qu	203	02	10	LAB # (lab use only)	ORDER	(lab use d							The Envi
hed by:	hed by: 1	He Rean	Instructions:		野	망	South	North	West	South	North	East T	FIE	,000h #	only)	Sampler Signature:	Telephone No:	City/State/Zip:	Company Address:	Company Name	Project Manager:	ronmental Lab of Tex:
					I-2 @ 2'	1-1@2'	French @ 4'	French @ 4'	rench @ 1'	French @ 3'	French @ 3'	rench @ 4'	D CODE	19	1	mat	432.520.7720	Midland, TX 79	2057 Commer	Nova Safety a		as
Date	Date	Date 6/14/13												-	1	Ken	à	9703	œ	nd Environm	Camil	
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_	7				×	×	×	×	×	×	×	×	Standard TAT									

Final 1.000



## **XENCO** Laboratories



Comments

### Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 06/14/2013 11:00:00 AM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 465079	Temperature Measuring device used :

Sar	nple Receipt Checklist	
#1 *Temperature of cooler(s)?		3
#2 *Shipping container in good condition?		Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping container/	cooler?	Yes
#5 Custody Seals intact on sample bottles?		Yes
#6 *Custody Seals Signed and dated?		Yes
#7 *Chain of Custody present?		Yes
#8 Sample instructions complete on Chain of C	ustody?	Yes
#9 Any missing/extra samples?		No
#10 Chain of Custody signed when relinquished	d/ received?	Yes
#11 Chain of Custody agrees with sample label	(s)?	Yes
#12 Container label(s) legible and intact?		Yes
#13 Sample matrix/ properties agree with Chair	n of Custody?	Yes
#14 Samples in proper container/ bottle?		Yes
#15 Samples properly preserved?		Yes
#16 Sample container(s) intact?		Yes
#17 Sufficient sample amount for indicated test	(s)?	Yes
#18 All samples received within hold time?		Yes
#19 Subcontract of sample(s)?		Yes
#20 VOC samples have zero headspace (less t	han 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,H0	CL, H2SO4?	Yes
#22 >10 for all samples preserved with NaAsO2	2+NaOH, ZnAc+NaOH?	Yes

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

Analyst:

PH Device/Lot#:

 Checklist completed by:
 Mussian formula
 Date:
 06/14/2013

 Kelsey Brooks
 Date:
 06/14/2013
 Date:
 06/14/2013

 Checklist reviewed by:
 Mussian formula
 Date:
 06/14/2013

 Kelsey Brooks
 Date:
 06/14/2013
 Date:
 06/14/2013

# Analytical Report 465108

## for Southern Union Gas Services- Monahans

**Project Manager: Camille Bryant** 

**SUG A-14 Compressor Station** 

### 17-JUN-13

Collected By: Client





#### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



17-JUN-13



Project Manager: **Camille Bryant Southern Union Gas Services- Monahans** 801 South Loop 464 Monahans, TX 79756

Reference: XENCO Report No(s): 465108 SUG A-14 Compressor Station Project Address: Lea County, New Mexico

#### **Camille Bryant**:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 465108. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 465108 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully.

Kelsey Brooks Project Manager

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

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



### Sample Cross Reference 465108



### Southern Union Gas Services- Monahans, Monahans, TX

SUG A-14 Compressor Station

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Baseline	S	06-14-13 09:30		465108-001



### CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans Project Name: SUG A-14 Compressor Station

Project ID: Work Order Number(s): 465108 
 Report Date:
 17-JUN-13

 Date Received:
 06/14/2013

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

**Analytical non conformances and comments:** Batch: LBA-916366 Inorganic Anions by EPA 300/300.1 E300

Batch 916366, Chloride recovered above QC limits in the Matrix Spike. Samples affected are: 465108-001. The Laboratory Control Sample for Chloride is within laboratory Control Limits



**Project Id:** 

Contact: Camille Bryant

Project Location: Lea County, New Mexico

### Certificate of Analysis Summary 465108

Southern Union Gas Services- Monahans, Monahans, TX

Project Name: SUG A-14 Compressor Station



Date Received in Lab: Fri Jun-14-13 03:15 pm

Report Date: 17-JUN-13

Project Manager: Kelsey Brooks

	Lab Id:	465108-001			
An alusia De au este d	Field Id:	Baseline			
Analysis Kequesiea	Depth:				
	Matrix:	SOIL			
	Sampled:	Jun-14-13 09:30			
BTEX by EPA 8021B	Extracted:	Jun-17-13 08:00			
	Analyzed:	Jun-17-13 12:29			
	Units/RL:	mg/kg I	RL		
Benzene		ND 0.00	109		
Toluene		ND 0.00	219		
Ethylbenzene		ND 0.00	109		
m,p-Xylenes		ND 0.00	219		
o-Xylene		ND 0.00	109		
Total Xylenes		ND 0.00	109		
Total BTEX		ND 0.00	109		
Inorganic Anions by EPA 300/300.1	Extracted:	Jun-17-13 09:00			
	Analyzed:	Jun-17-13 12:24			
	Units/RL:	mg/kg I	L		
Chloride		1900 4	0.0		
Percent Moisture	Extracted:				
	Analyzed:	Jun-17-13 10:30			
	Units/RL:	% 1	RL		
Percent Moisture		9.37 1	00		
TPH By SW8015 Mod	Extracted:	Jun-14-13 16:00			
	Analyzed:	Jun-15-13 11:27			
	Units/RL:	mg/kg I	L.		
C6-C12 Gasoline Range Hydrocarbons		70.3 1	5.5		
C12-C28 Diesel Range Hydrocarbons		670 1	5.5		
C28-C35 Oil Range Hydrocarbons		51.4 1	5.5		
Total TPH		792 1	5.5		

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

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

Huns Boah

Kelsey Brooks Project Manager

Page 5 of 16


### **Flagging Criteria**



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

LOD Limit of Detection

Phone

(281) 240-4200

(214) 902 0300

(210) 509-3334

(813) 620-2000

(432) 563-1800

(770) 449-8800

(602) 437-0330

\* Surrogate recovered outside laboratory control limit.

- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection Limit
   SDL Sample Detection Limit
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(214) 351-9139

(210) 509-3335

(813) 620-2033

(432) 563-1713

(770) 449-5477



## Project Name: SUG A-14 Compressor Station

Vork Orders : 465108 Lab Batch #: 916303	, Sample: 465108-001 / SMF	<sup>2</sup> Batch	Project II	<b>):</b> :Soil								
Units: mg/kg	Date Analyzed: 06/15/13 11:27	SUF	ROGATE RE	ECOVERY	STUDY							
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags						
1 Chlorocotono	Analytes	00.4	00.8	100	70.125	<u> </u>						
o-Ternhenvl		54.2	99.0 /0 0	100	70-135							
• Terpieny:	C 165108 001 / SMI		1 Matuta	01	/0-155	<u> </u>						
Lab Batch #: 910530	Sample: 403106-001 / SIVIE	Batch	POCATE RE	SOIL	STUDY							
Units: mg/kg	Date Analyzed: 06/17/13 12:29		MUGAIL NI			<u>г                                    </u>						
BTE	K by EPA 8021B Analvtes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags						
1,4-Difluorobenzene		0.0293	0.0300	98	80-120	 						
4-Bromofluorobenzene		0.0342	0.0300	114	80-120							
Lah Batch #: 916303		SLK Batch	• 1 Matrix:	Solid								
Units: mg/kg	Date Analyzed: 06/15/13 11:02	SUF	ROGATE RE	ECOVERY :	STUDY							
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags						
1 Chlorocotana	Analytes	104	100	104	70.125							
o-Ternhenvl		54.1	50.2	104	70-135							
		J4.1	JU.2	100	/0-155							
Lab Batch #: 916356	Sample: 639//5-1-BLK/B	LK Batch	E I Matrix:	Solid	[D]         70-135           104         70-135           108         70-135           id <b>DVERY STUDY</b>							
Units: mg/kg	Date Analyzed: 06/17/13 12:13	501	KUGALE KI			<del>.</del>						
BTEZ	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags						
1.4-Difluorobenzene		0.0245	0.0300	82	80-120							
4-Bromofluorobenzene		0.0322	0.0300	107	80-120							
Lab Batch #: 916303	Sample: 639748-1-BKS / B	KS Batch	: 1 Matrix:	Solid	<u> </u>	·						
Units: mg/kg	Date Analyzed: 06/15/13 10:11	SUF	ROGATE RE	COVERY	STUDY							
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags						
1-Chlorooctane		104	100	104	70-135							
o-Terphenyl		59.9	50.1	120	70-135							

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution



## Project Name: SUG A-14 Compressor Station

Vork Orders : 465108	, ,		Project II	):							
Lab Batch #: 916356	Sample: 639775-1-BKS / B	KS Batcl	h: 1 Matrix:	Solid							
Units: mg/kg	Date Analyzed: 06/17/13 11:39	SU!	RROGATE RF	<b>ECOVERY</b>	STUDY						
BTEX	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1,4-Difluorobenzene		0.0261	0.0300	87	80-120						
4-Bromofluorobenzene		0.0347 0.0300 116 80-120									
Lab Batch #: 916303	Sample: 639748-1-BSD / B	SD Batcl	h: 1 Matrix:	Solid							
<b>Units:</b> mg/kg	Date Analyzed: 06/15/13 10:36	SU	RROGATE RF	<b>ECOVERY</b>	STUDY						
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctane		98,5	99.9	99	70-135						
o-Terphenyl		61.4	50.0	123	70-135						
I ah Ratch #• 916356		SD Batel	h. 1 Matrix:	Solid	<u>                                      </u>						
Lab Datch "	Date Analyzed: 06/17/13 11:56	SURROGATE RECOVERY STUDY									
BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1.4.Difluorobenzene	Allalytes	0.0261	0.0300	87	<u>%0 120</u>	l					
4-Bromofluorobenzene		0.0201	0.0300	118	80-120						
T - L D-4-L 4. 016303	91-, 465064 002 S / MS	Botal		- 110 - Coll	00120						
	<b>Sample:</b> 403004-002 S / Mi	SU	n: 1 Maura. RROGATE RE	COVERY :	STUDY						
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
	Analytes			[D]							
1-Chlorooctane		98.0	99.6	98	70-135						
o-Terphenyl		60.6	49.8	122	70-135						
Lab Batch #: 916356	Sample: 465079-002 S / MS	S Batch	h: 1 Matrix:	Soil							
Units: mg/kg	Date Analyzed: 06/17/13 13:18	SU!	RROGATE RF	COVERY	STUDY						
BTEX	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1,4-Difluorobenzene		0.0342	0.0300	114	80-120						
4-Bromofluorobenzene		0.0348	0.0300	116	80-120						

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution



## Project Name: SUG A-14 Compressor Station

Work Orders: 465108	ork Orders : 465108,Project ID:									
Lab Batch #: 916303	Sample: 465064-002 SD / M	ASD Bate	h: <sup>1</sup> Matrix:	Soil						
Units: mg/kg	Date Analyzed: 06/15/13 14:25	SURROGATE RECOVERY STUDY								
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooctane	· · · · · · · · · · · · · · · · · · ·	99.5	99.7	100	70-135					
o-Terphenyl		61.9	49.9	124	70-135					
Lab Batch #: 916356	Sample: 465079-002 SD / M	ASD Bate	h: <sup>1</sup> Matrix:	Soil						
Units: mg/kg	Date Analyzed: 06/17/13 13:35	SU	RROGATE RI	ECOVERY	STUDY					
BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1,4-Difluorobenzene		0.0243	0.0300	81	80-120					
4-Bromofluorobenzene		0.0346	0.0300	115	80-120					

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution





#### Project Name: SUG A-14 Compressor Station

Work Order #: 465108	Project ID:										
Analyst: DYV	Da	ate Prepar	ed: 06/17/201	3			Date Ar	nalyzed: 0	6/17/2013		
Lab Batch ID: 916356 Sample: 639775-1-B	KS	Batch	n#: 1				]	Matrix: S	olid		
Units: mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY									
BTEX by EPA 8021B	Blank Sample Result [A]	Blank     Spike     Blank     Blank     Spike     Blank     Blank							Control Limits %RPD	Flag	
Analytes		[10]	[0]		[IC]	Kesutt [P]	[0]				
Benzene	<0.000994	0.0994	0.0865	87	0.0998	0.0899	90	4	70-130	35	
Toluene	<0.00199	0.0994	0.0862	87	0.0998	0.0890	89	3	70-130	35	
Ethylbenzene	< 0.000994	0.0994	0.0952	96	0.0998	0.103	103	8	71-129	35	
m,p-Xylenes	< 0.00199	0.199	0.179	90	0.200	0.193	97	8	70-135	35	
o-Xylene	< 0.000994	0.0994	0.0862	87	0.0998	0.100	100	15	71-133	35	
Analyst: AMB	Da	ate Prepar	ed: 06/17/201	3			Date Ar	nalyzed: 0	6/17/2013		
Lab Batch ID: 916366 Sample: 639779-1-B	KS	Batch	n#: 1				]	Matrix: S	olid		
Units: mg/kg		BLAN	K /BLANK S	SPIKE / E	BLANK S	PIKE DUPI	ICATE F	RECOVE	RY STUD	Y	
Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<2.00	50.0	50.3	101	50.0	47.9	96	5	80-120	20	

Relative Percent Difference RPD =  $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] =  $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] =  $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes





#### Project Name: SUG A-14 Compressor Station

Work Order #: 465108 Analyst: DYV Lab Batch ID: 916303	Sample: 639748-1-B	D: KS	Date Prepared:     06/14/2013     Project ID: Date Analyzed:     06/15/201       S     Batch #:     1     Matrix:     Solid									
Units: mg/kg			BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY									
TPH By SW801	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag		
Analytes			[B]	[C]	[D]	[E]	Result [F]	[G]				
C6-C12 Gasoline Range Hydroca	rbons	<15.0	1000	1080	108	999	1080	108	0	70-135	35	
C12-C28 Diesel Range Hydrocar	bons	<15.0	1000	1110	111	999	1110	111	0	70-135	35	

Relative Percent Difference RPD =  $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] =  $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] =  $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



### Form 3 - MS Recoveries



#### **Project Name: SUG A-14 Compressor Station**

Work Order #: 465108									
Lab Batch #: 916366	Project ID:								
<b>Date Analyzed:</b> 06/17/2013 <b>Date</b>	Prepared:         06/17/2013         Analyst:         AMB								
QC- Sample ID: 465108-001 S	<b>Batch #:</b> 1	Batch #: 1 Matrix: Soil							
Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY								
Inorganic Anions by EPA 300	ParentSpiked SampleControlSampleSpikeResult%RLimitsResultAdded[C][D]%R								
Analytes	[A]	[B]							
Chloride	1900	1000	3150	125	80-120	Х			

Matrix Spike Percent Recovery [D] = 100\*(C-A)/BRelative Percent Difference [E] = 200\*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



### Form 3 - MS / MSD Recoveries

#### **Project Name: SUG A-14 Compressor Station**



<b>Work Order # :</b> 465108						Project II	D:				
Lab Batch ID: 916356	QC- Sample ID:	465079	-002 S	Ba	tch #:	1 Matri	x: Soil				
<b>Date Analyzed:</b> 06/17/2013	Date Prepared:	06/17/2	013	Ar	alyst: I	DYV					
Reporting Units: mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
BTEX by EPA 8021B	Parent Sample Result	Spike	Spiked Sample Result	Spiked Sample %B	Spike	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD	Control Limits	Control Limits	Flag
Analytes	[A]	[B]	[0]	[D]	[E]	Kesunt [F]	[G]	70	701		
Benzene	<0.000992	0.0992	0.0846	85	0.0998	0.0802	80	5	70-130	35	
Toluene	< 0.00198	0.0992	0.0795	80	0.0998	0.0874	88	9	70-130	35	
Ethylbenzene	<0.000992	0.0992	0.0843	85	0.0998	0.0855	86	1	71-129	35	
m,p-Xylenes	<0.00198	0.198	0.165	83	0.200	0.163	82	1	70-135	35	
o-Xylene	< 0.000992	0.0992	0.0812	82	0.0998	0.0818	82	1	71-133	35	
Lab Batch ID: 916303	QC- Sample ID:	465064	-002 S	Ba	tch #:	1 Matri	x: Soil				
<b>Date Analyzed:</b> 06/15/2013	Date Prepared:	06/14/2	013	Ar	nalyst: I	DYV					
Reporting Units: mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<14.9	996	998	100	997	1000	100	0	70-135	35	

<14.9

996

1070

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference RPD = 200\*|(C-F)/(C+F)|

C12-C28 Diesel Range Hydrocarbons

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

107

997

1070

107

0

70-135

35



# Sample Duplicate Recovery



#### **Project Name: SUG A-14 Compressor Station**

Work Order #: 465108

Lab Batch #: 916352			-	Project I	D:	
Date Analyzed: 06/17/2013 10:30	Date Prepar	ed: 06/17/2013	yst:WRU			
QC- Sample ID: 465022-001 D	Batch	n#: 1	Mat	rix: Soil		
<b>Reporting Units:</b> %		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture		Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte			[ <b>B</b> ]			
Percent Moisture		18.4	19.3	5	20	

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

Relinquis	Special Relinquis Relinquis						LAB # (lab use only)	(lab use ORDEF							The Env
hed by:	Instructions:						괾	1901 #	Sampler Signature	Telephone No:	City/State/Zip:	Company Address	Company Name	Project Manager:	ironmental Lab of Tey
						aseline	LD CODE	80	fort	432.520,7720	Midland, TX 79703	: 2057 Commerce	Nova Safety and En		aconco
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Final 1.000



### **XENCO** Laboratories



#### Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 06/14/2013 03:15:00 PM **Temperature Measuring device used :** Work Order #: 465108

Comments Sample Receipt Checklist #1 \*Temperature of cooler(s)? 3 #2 \*Shipping container in good condition? Yes #3 \*Samples received on ice? Yes #4 \*Custody Seals intact on shipping container/ cooler? Yes #5 Custody Seals intact on sample bottles? Yes #6 \*Custody Seals Signed and dated? Yes #7 \*Chain of Custody present? Yes #8 Sample instructions complete on Chain of Custody? Yes #9 Any missing/extra samples? No #10 Chain of Custody signed when relinquished/ received? Yes #11 Chain of Custody agrees with sample label(s)? Yes #12 Container label(s) legible and intact? Yes #13 Sample matrix/ properties agree with Chain of Custody? Yes #14 Samples in proper container/ bottle? Yes #15 Samples properly preserved? Yes #16 Sample container(s) intact? Yes #17 Sufficient sample amount for indicated test(s)? Yes #18 All samples received within hold time? Yes #19 Subcontract of sample(s)? Yes #20 VOC samples have zero headspace (less than 1/4 inch bubble)? Yes #21 <2 for all samples preserved with HNO3,HCL, H2SO4? Yes #22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH? Yes

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

Analyst:

PH Device/Lot#:

Checklist completed by: Kelsey Brooks Checklist reviewed by: Kelsey Brooks Kelsey Brooks

Date: 06/14/2013

Date: 06/14/2013

# Analytical Report 465234

### for Southern Union Gas Services- Monahans

Project Manager: Camille Bryant

**SUG A-14 Compressor Station** 

#### 20-JUN-13

Collected By: Client





#### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



20-JUN-13



Project Manager: **Camille Bryant Southern Union Gas Services- Monahans** 801 South Loop 464 Monahans, TX 79756

Reference: XENCO Report No(s): 465234 SUG A-14 Compressor Station Project Address: Lea County, New Mexico

#### **Camille Bryant**:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 465234. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 465234 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully.

Kelsey Brooks Project Manager

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### Sample Cross Reference 465234



#### Southern Union Gas Services- Monahans, Monahans, TX

SUG A-14 Compressor Station

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-3 @ 3'	S	06-17-13 11:00		465234-001
WSW-1 @ 1'	S	06-17-13 12:30		465234-002
SSW-1 @ 1'	S	06-17-13 14:00		465234-003
ESW-1 @ 2'	S	06-17-13 15:15		465234-004



#### CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans Project Name: SUG A-14 Compressor Station

Project ID: Work Order Number(s): 465234 
 Report Date:
 20-JUN-13

 Date Received:
 06/18/2013

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



### Certificate of Analysis Summary 465234

Southern Union Gas Services- Monahans, Monahans, TX

Project Name: SUG A-14 Compressor Station



Date Received in Lab: Tue Jun-18-13 01:40 pm Report Date: 20-JUN-13

Project Id: Contact: Camille Bryant

Project Location: Lea County, New Mexico

								Project Ma	nager:	Kelsey Brooks	
	Lab Id:	465234-0	001	465234-(	002	465234-0	003	465234-0	004		
Analysis Paguastad	Field Id:	BH-3 @	3'	WSW-1	@ 1'	SSW-1	@ 1'	ESW-1	@ 2'		
Analysis Kequestea	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	Jun-17-13	11:00	Jun-17-13	12:30	Jun-17-13	14:00	Jun-17-13	15:15		
BTEX by EPA 8021B	Extracted:	Jun-20-13	Jun-20-13 08:30		08:30	Jun-20-13	08:30	Jun-20-13	08:30		
	Analyzed:	Jun-20-13	10:45	Jun-20-13	11:22	Jun-20-13	13:46	Jun-20-13	13:13		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		ND	0.00108	ND	0.00101	ND	0.00105	ND	0.00105		
Toluene		ND	0.00216	ND	0.00202	ND	0.00211	ND	0.00211		
Ethylbenzene		ND	0.00108	ND	0.00101	ND	0.00105	ND	0.00105		
m,p-Xylenes		ND	0.00216	ND	0.00202	ND	0.00211	ND	0.00211		
o-Xylene		ND	0.00108	ND	0.00101	ND	0.00105	ND	0.00105		
Total Xylenes		ND	0.00108	ND	0.00101	ND	0.00105	ND	0.00105		
Total BTEX		ND	0.00108	ND	0.00101	ND	0.00105	ND	0.00105		
Inorganic Anions by EPA 300/300.1	Extracted:	Jun-20-13	10:00	Jun-20-13 10:00 Jun-20-13 10:00		Jun-20-13	10:00				
	Analyzed:	Jun-20-13	14:07	Jun-20-13	14:29	Jun-20-13	15:07	Jun-20-13	16:12		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		705	20.0	6620	100	766	20.0	628	20.0		
Percent Moisture	Extracted:										
	Analyzed:	Jun-18-13	15:50	Jun-18-13	15:50	Jun-18-13	15:50	Jun-18-13	15:50		
	Units/RL:	%	RL	%	RL	%	RL	%	RL		
Percent Moisture		7.28	1.00	1.78	1.00	5.01	1.00	5.72	1.00		
TPH By SW8015 Mod	Extracted:	Jun-19-13	15:30	Jun-19-13	15:30	Jun-19-13	15:30	Jun-19-13	15:30		
	Analyzed:	Jun-20-13 05:59		Jun-20-13	06:25	Jun-20-13	06:51	Jun-20-13	09:50		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
C6-C12 Gasoline Range Hydrocarbons		ND	16.1	ND	15.2	ND	15.8	ND	15.9		
C12-C28 Diesel Range Hydrocarbons		121	16.1	186	15.2	ND	15.8	ND	15.9		
C28-C35 Oil Range Hydrocarbons		ND	16.1	34.0	15.2	ND	15.8	ND	15.9		
Total TPH		121	16.1	220	15.2	ND	15.8	ND	15.9		

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

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Huns Boah

Kelsey Brooks Project Manager

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### Flagging Criteria



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

LOD Limit of Detection

\* Surrogate recovered outside laboratory control limit.

- BRL Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection Limit SDL Sample Detection Limit
- LOQ Limit of Quantitation **POL** Practical Quantitation Limit MQL Method Quantitation Limit
- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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## Project Name: SUG A-14 Compressor Station

Work Orders: 465234	L,		Project II	):		
Lab Batch #: 916634	Sample: 465234-001 / SMP	Batc	h: <sup>1</sup> Matrix:	Soil		
Units: mg/kg	Date Analyzed: 06/20/13 05:59	SU	RROGATE RE	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		91.3	99.7	92	70-135	
o-Terphenyl		48.6	49.9	97	70-135	
Lab Batch #: 916634	Sample: 465234-002 / SMP	Batc	h: <sup>1</sup> Matrix:	Soil		
Units: mg/kg	Date Analyzed: 06/20/13 06:25	SU	RROGATE RE	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		103	99.5	104	70-135	
o-Terphenyl		53.4	49.8	107	70-135	
Lab Batch #: 916634	Sample: 465234-003 / SMP	Batc	h: <sup>1</sup> Matrix:	Soil		
Units: mg/kg	Date Analyzed: 06/20/13 06:51	SU	RROGATE RE	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[4]		
1-Chlorooctane		101	100	101	70-135	
0-1 erpnenyi		53.2	50.0	106	70-135	
Lab Batch #: 916634	Sample: 465234-004 / SMP	Bate	h: 1 Matrix:	Soil		
Units: mg/kg	<b>Date Analyzed:</b> 06/20/13 09:50	SU	RROGATE RE	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes				50.105	
1-Chlorooctane		98.8	99.8	99	70-135	
		31.2	49.9	105	70-155	
Lab Batch #: 916711	Sample: 465234-001 / SMP	Batel	h: <sup>1</sup> Matrix:	Soil		
Units: mg/kg	Date Analyzed: 06/20/13 10:45	50	KKUGATE KI			
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0277	0.0300	92	80-120	
4-Bromofluorobenzene		0.0289	0.0300	96	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution



## Project Name: SUG A-14 Compressor Station

Vork Orders: 465234	ŀ,		Project II	):		
Lab Batch #: 916711	Sample: 465234-002 / SMP	Batcl	h: 1 Matrix:	: Soil		
Units: mg/kg	Date Analyzed: 06/20/13 11:22	SU	<b>RROGATE</b> RF	<b>COVERY</b>	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0245	0.0300	82	80-120	
4-Bromofluorobenzene		0.0297	0.0300	99	80-120	
Lab Batch #: 916711	Sample: 465234-004 / SMP	Batcl	h: 1 Matrix:	:Soil		
Units: mg/kg	Date Analyzed: 06/20/13 13:13	SU	RROGATE RF	COVERY S	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0258	0.0300	86	80-120	
4-Bromofluorobenzene		0.0287	0.0300	96	80-120	
Lab Batch #: 916711	Sample: 465234-003 / SMP	Batcl	h: 1 Matrix:	:Soil	<u> </u>	
Units: mg/kg	Date Analyzed: 06/20/13 13:46	SU!	RROGATE RF	<b>ECOVERY</b>	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0306	0.0300	102	80-120	
4-Bromofluorobenzene		0.0316	0.0300	105	80-120	
Lab Batch #: 916634	Sample: 639939-1-BLK / B!	LK Batcl	h: 1 Matrix:	:Solid	·	
Units: mg/kg	Date Analyzed: 06/20/13 05:33	SU!	RROGATE RF	<b>ECOVERY</b>	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	Analytes	108	99.5	109	70-135	}
o-Terphenyl		56.7	49.8	1114	70-135	[
Lah Batch #: 916711		LK Batel	h• 1 Matrix:	•Solid	<u>                                      </u>	
Units: mg/kg	Date Analyzed: 06/20/13 10:06	SU:	RROGATE RI	ECOVERY (	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0299	0.0300	100	80-120	
4-Bromofluorobenzene		0.0317	0.0300	106	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution



## Project Name: SUG A-14 Compressor Station

Vork Orders : 465234	F.,		Project II	):		
Lab Batch #: 916634	Sample: 639939-1-BKS / B	KS Batch	h: 1 Matrix:	Solid		
Units: mg/kg	Date Analyzed: 06/20/13 04:42	SU	RROGATE RF	COVERY S	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		93.9	99.7	94	70-135	
o-Terphenyl		58.0	49.9	116	70-135	
Lab Batch #: 916711	Sample: 639983-1-BKS / B	KS Batcl	h: 1 Matrix:	Solid		
<b>Units:</b> mg/kg	Date Analyzed: 06/20/13 09:33	SU	RROGATE RF	COVERY S	STUDY	
BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4-Difluorobenzene		0.0311	0.0300	104	80-120	
4-Bromofluorobenzene		0.0306	0.0300	102	80-120	
Lah Ratch #: 916634		SD Batcl	h· 1 Matrix:	• Solid	<u>                                     </u>	
Units: mg/kg	Date Analyzed: 06/20/13 05:07	SU SU	RROGATE RI	ECOVERY	STUDY	
TPH ]	By SW8015 Mod	Amount Found	True Amount [B]	Recovery %R	Control Limits	Flags
	Analytes	[A]	լոյ	[D]	701	
1-Chlorooctane		104	99.9	104	70-135	
o-Terphenyl		58.3	50.0	117	70-135	
Lab Batch #: 916711	<b>Sample:</b> 639983-1-BSD / B	SD Batch	n: 1 Matrix:	Solid		
Units: mg/kg	Date Analyzed: 06/20/13 09:50	SUI	RROGATE RF	<b>COVERY</b>	STUDY	
BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes	ļ]	ļ	נטן		
1,4-Difluorobenzene		0.0346	0.0300	115	80-120	
4-Bromofluorobenzene		0.0300	0.0300	100	80-120	
Lab Batch #: 916634	Sample: 465234-003 S / MS	Batch	n: 1 Matrix:	Soil		
Units: mg/kg	Date Analyzed: 06/20/13 07:17	SUI	RROGATE RE	COVERY 3	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		106	99.7	106	70-135	
o-Terphenyl		55.5	49.9	111	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution



## Project Name: SUG A-14 Compressor Station

Work Orders : 465234	.,		Project II	):		
Lab Batch #: 916711	Sample: 465234-003 S / MS	S Batel	h: 1 Matrix:	:Soil		
Units: mg/kg	Date Analyzed: 06/20/13 12:14	SU	RROGATE RE	<b>ECOVERY</b>	STUDY	
BTE	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4 Difluorobanzana	Analytes	0.0220	0.0300	110	80.120	. <u></u>
4-Bromofluorobenzene		0.0338	0.0300	110	80-120	
	a	0.0336	- 1	0.11	00-120	
Lab Batch #: 916634	Sample: 465234-003 SD / M	ASD Batel	h: <sup>1</sup> Matrix:	; S011		
Units: mg/kg	Date Analyzed: 06/20/13 07:42	SU	RROGATE RE	<b>ECOVERY</b>	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		106	100	106	70-135	
o-Terphenyl		58.2	50.2	116	70-135	
Lab Batch #: 916711	Sample: 465234-003 SD / N	MSD Bate	h: 1 Matrix:	:Soil	<u> </u>	
Units: mg/kg	<b>Date Analyzed:</b> 06/20/13 12:30	SU	RROGATE RE	<b>ECOVERY</b>	STUDY	
BTEX	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0340	0.0300	113	80-120	
4-Bromofluorobenzene		0.0332	0.0300	111	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution



#### Project Name: SUG A-14 Compressor Station

<b>Work Order #:</b> 465234							Pro	ject ID:			
Analyst: DYV	Da	ate Prepar	ed: 06/20/201	3			Date A	nalyzed: (	6/20/2013		
Lab Batch ID: 916711 Sample: 639983-1-B	KS	Batcl	n#: 1					Matrix: S	Solid		
Units: mg/kg		BLAN	K /BLANK S	SPIKE / E	BLANK S	PIKE DUPI	JCATE 1	RECOVE	ERY STUD	Y	
BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000998	0.0998	0.115	115	0.100	0.105	105	9	70-130	35	
Toluene	< 0.00200	0.0998	0.117	117	0.100	0.104	104	12	70-130	35	
Ethylbenzene	<0.000998	0.0998	0.117	117	0.100	0.118	118	1	71-129	35	
m,p-Xylenes	< 0.00200	0.200	0.227	114	0.200	0.218	109	4	70-135	35	
o-Xylene	<0.000998	0.0998	0.106	106	0.100	0.112	112	6	71-133	35	
Analyst: AMB	Da	ate Prepar	ed: 06/20/201	3			Date A	nalyzed: (	6/20/2013		
Lab Batch ID: 916727         Sample: 639988-1-B	KS	Batcl	n#: 1					Matrix: S	Solid		
Units: <sup>mg/kg</sup>		BLAN	K /BLANK S	SPIKE / E	BLANK S	PIKE DUPI	JCATE 1	RECOVE	ERY STUD	Y	
Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<2.00	50.0	46.9	94	50.0	45.6	91	3	80-120	20	

Relative Percent Difference RPD =  $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] =  $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] =  $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes





#### Project Name: SUG A-14 Compressor Station

Work Order #: 465234 Analyst: DYV Lab Batch ID: 916634	Sample: 639939-1-B	Da KS	ate Prepar Bate	red: 06/19/201 h #: 1	3			Pro Date A	ject ID: nalyzed: () Matrix: S	6/20/2013 Solid		
Units: mg/kg			BLAN	K /BLANK S	SPIKE / E	BLANK S	PIKE DUPL	ICATE	RECOVE	ERY STUD	Y	
TPH By SW801	15 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes			[B]	[C]	[D]	[E]	Result [F]	[G]				
C6-C12 Gasoline Range Hydroca	urbons	<15.0	997	1120	112	999	1060	106	6	70-135	35	
C12-C28 Diesel Range Hydrocar	bons	<15.0	997	1150	115	999	1120	112	3	70-135	35	

Relative Percent Difference RPD =  $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] =  $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] =  $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



### Form 3 - MS Recoveries



#### Project Name: SUG A-14 Compressor Station

Work Order #: 465234						
Lab Batch #: 916727			Pro	oject ID:		
Date Analyzed: 06/20/2013 Date I	Prepared: 06/2	0/2013	А	nalyst: Al	MB	
QC- Sample ID: 465334-001 S	Batch #: 1		Ι	Matrix: So	oil	
Reporting Units: mg/kg	MATH	RIX / MA	TRIX SPIKE	RECOV	ERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]				
Chloride	3.26	50.0	45.3	84	80-120	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/BRelative Percent Difference [E] = 200\*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



### Form 3 - MS / MSD Recoveries

#### **Project Name: SUG A-14 Compressor Station**



<b>Work Order # :</b> 465234						Project II	D:				
Lab Batch ID: 916711	QC- Sample ID:	465234	-003 S	Ba	tch #:	1 Matri	x: Soil				
<b>Date Analyzed:</b> 06/20/2013	Date Prepared:	06/20/2	013	An	alyst: 1	DYV					
Reporting Units: mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
BTEX by EPA 8021B	Parent Sample Result	Spike	Spiked Sample Result	Spiked Sample %B	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		[D]	[E]	Ktoutt [1]	[G]	/0			
Benzene	< 0.00106	0.106	0.102	96	0.105	0.0982	94	4	70-130	35	
Toluene	<0.00211	0.106	0.114	108	0.105	0.0955	91	18	70-130	35	
Ethylbenzene	<0.00106	0.106	0.110	104	0.105	0.0950	90	15	71-129	35	
m,p-Xylenes	<0.00211	0.211	0.202	96	0.209	0.171	82	17	70-135	35	
o-Xylene	< 0.00106	0.106	0.0932	88	0.105	0.0898	86	4	71-133	35	
Lab Batch ID: 916634	QC- Sample ID:	465234	-003 S	Ba	tch #:	1 Matri	x: Soil				
<b>Date Analyzed:</b> 06/20/2013	Date Prepared:	06/19/2	013	An	nalyst: 1	DYV					
Reporting Units: mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
TPH By SW8015 Mod	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[ <b>B</b> ]		[D]	[E]		[G]				
C6-C12 Gasoline Range Hydrocarbons	<15.7	1050	1130	108	1060	1150	108	2	70-135	35	

<15.7

1050

1210

115

1060

1250

118

3

70-135

35

C12-C28 Diesel Range Hydrocarbons

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E



# Sample Duplicate Recovery



#### Project Name: SUG A-14 Compressor Station

Work Order #: 465234

Lab Batch #: 916555				Project I	D:	
Date Analyzed: 06/18/2013 15:50	Date Prepar	ed: 06/18/2013	Anal	yst:WRU		
QC- Sample ID: 465234-001 D	Batch	n#: 1	Mat	rix: Soil		
<b>Reporting Units:</b> %		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture		Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte			[ <b>B</b> ]			
Percent Moisture		7.28	7.22	1	20	

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

Relinquis	Relinquis	Relinguis	Special			-				LAB # (lab use only)	ORDEP	(lab use							The Env
shed by:	hed by:	hed by Roma	Instructions:			ES	SS	SM	BF	FIE	10020	CUN 11 (Vino	Sampler Signature	Telephone No:	City/State/Zip:	Company Address:	Company Name	Project Manager:	ironmental Lab of Tex
		6				N-1 @ 2'	V-1 @ 1'	N-1@1'	-3@3'	LD CODE	Ĭ	-	Ant	432.520.7720	Midland, TX 79703	2057 Commerce	Nova Safety and E		a
Date	Date	Date 18/13									-	20	-	5	Ĩ		nvironm	Cami	
		13							KG	, Beginning Depth							lental	le Bry	
lime	Time	:40				-			11	Ending Depth								ant	
Received by EL	Received by:	Received by:				6/12/2013	6/12/2013	6/12/2013	136/42/2013	Date Sampled									
OT:						15:15	14:00	12:30	11:00	Time Sampled			e-mail:	Fax No:					
X					1.1					Field Filtered				1.5					
N				-	-			-	-	Total #. of Containers	+			132.5					0.1
				$\vdash$	-	×	×	×	×	HNO-	P	Se	Cb	520.7					260 Ddes
6				$\vdash$	-	-	+	+	-	HCI	serva	and	ryar	701					sa,
1							-	-	-	H <sub>2</sub> SO <sub>4</sub>	ation 2	5	i @i						Tex
)					-		+			NaOH	# 01	no	SVOL						-20 as 7
										Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Cont	part	Irai						East
			1.1.1							None	ainers	ain	ning						
Date	Date	Date	1.1	$\vdash$	-	-	-	-	-	Other ( Specify)	4	in a	.CC	1	1			1	
	0	ω				Soil	Soil	Soil	Soil	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Matrix	,00		Report		P		Pro	
Time	Time	Time			1	×	×	×	×	TPH: 418.1 8015M 80	015B			For		rojec	Pro	ject	
1	0	0.05	< 00 F			-	+	-	-	TPH: TX 1005 TX 1006	3			nat:	Р	tLo	ject	Nam	
	b	abel	abo amp		-	-	+	+	-	Cations (Ca, Mg, Na, K)	-	4		5	.#	2	*	100	
	San Cou	dy s	le C	$\vdash$			+	+		SAR / ESP / CEC	-	TCLF		A St				UG A	
3	npler.	eals eals	onta e of				+	1	1	Metals: As Ag Ba Cd Cr Pb Hg	g Se	1		anda				-14	Fa
	/Clier	on c	iners							Volatiles		lialy	no lo	ard		F		Com	X:
Deo	nt Re	r(s) onta	Inta			2.0				Semivolatiles		1 97	n n			a Co		press	432
Dint	20.2	iner( r(s)	s: ce?			×	×	×	×	BTEX 8021B/5030 or BTEX 8	260		2			ount		or S	2-56
	PHL	(s)			_	-	1			RCI				TRR		V. Ne		tatior	3-18
	п			$\vdash$	-	-	-	-	-	N.O.R.M.		_		D		W M			13
)	ede X X	***	**	$\vdash$	-	×	×	×	×	Chionae E 300.0				_		exic			
)	5			$\vdash$	-		+	+	-		_	-	1	z		°			
5	N N N	zzz	zz			×	×	×	×	RUSH TAT (Pre-Schedule) 24	4, 48,	72 hrs	t	P					
_						13	17	1	1	Standard TAT								1	

Page 16 of 17

Final 1.000



### **XENCO Laboratories**



#### Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 06/18/2013 01:40:00 PM **Temperature Measuring device used :** Work Order #: 465234

Sampl	e Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ co	oler? Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6 *Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Sample instructions complete on Chain of Custo	ody? Yes	
#9 Any missing/extra samples?	Νο	
#10 Chain of Custody signed when relinquished/ re	eceived? Yes	
#11 Chain of Custody agrees with sample label(s)?	Yes	
#12 Container label(s) legible and intact?	Yes	
#13 Sample matrix/ properties agree with Chain of	Custody? Yes	
#14 Samples in proper container/ bottle?	Yes	
#15 Samples properly preserved?	Yes	
#16 Sample container(s) intact?	Yes	
#17 Sufficient sample amount for indicated test(s)?	Yes	
#18 All samples received within hold time?	Yes	
#19 Subcontract of sample(s)?	Yes	
#20 VOC samples have zero headspace (less than	1/4 inch bubble)? Yes	
#21 <2 for all samples preserved with HNO3,HCL,	H2SO4? Yes	
#22 >10 for all samples preserved with NaAsO2+N	aOH, ZnAc+NaOH? Yes	

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

Analyst:

PH Device/Lot#:

Checklist completed by: Mmg Moah Kelsey Brooks Checklist reviewed by: Mmg Moah Kelsey Brooks

Date: 06/18/2013

Date: 06/18/2013

# Analytical Report 465234

### for Southern Union Gas Services- Monahans

Project Manager: Camille Bryant

**SUG A-14 Compressor Station** 

#### 20-JUN-13

Collected By: Client





#### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



20-JUN-13



Project Manager: **Camille Bryant Southern Union Gas Services- Monahans** 801 South Loop 464 Monahans, TX 79756

Reference: XENCO Report No(s): 465234 SUG A-14 Compressor Station Project Address: Lea County, New Mexico

#### **Camille Bryant**:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 465234. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 465234 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully.

Kelsey Brooks Project Manager

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### Sample Cross Reference 465234



#### Southern Union Gas Services- Monahans, Monahans, TX

SUG A-14 Compressor Station

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-3 @ 3'	S	06-17-13 11:00		465234-001
WSW-1 @ 1'	S	06-17-13 12:30		465234-002
SSW-1 @ 1'	S	06-17-13 14:00		465234-003
ESW-1 @ 2'	S	06-17-13 15:15		465234-004



#### CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans Project Name: SUG A-14 Compressor Station

Project ID: Work Order Number(s): 465234 
 Report Date:
 20-JUN-13

 Date Received:
 06/18/2013

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



**Project Id:** 

### Certificate of Analysis Summary 465234

Southern Union Gas Services- Monahans, Monahans, TX

Project Name: SUG A-14 Compressor Station



Date Received in Lab: Tue Jun-18-13 01:40 pm Report Date: 20-JUN-13

Contact: Camille Bryant Project Location: Lea County, New Mexico

								Project Ma	nager:	Kelsey Brooks	
	Lab Id:	465234-0	01	465234-0	02	465234-0	003	465234-(	004		
A an alwain Do any onto d	Field Id:	BH-3@	3'	WSW-1 @	21'	SSW-1 @	9 1'	ESW-1 @	2'		
Analysis Kequesiea	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	Jun-17-13 1	1:00	Jun-17-13 1	2:30	Jun-17-13	14:00	Jun-17-13	15:15		
BTEX by EPA 8021B	Extracted:	Jun-20-13 (	08:30	Jun-20-13 0	8:30	Jun-20-13 (	)8:30	Jun-20-13	)8:30		
	Analyzed:	Jun-20-13	10.45	Jun-20-13 1	1:22	Jun-20-13	13.46	Jun-20-13	13.13		
	Units/RI ·	mg/kg	RI	mg/kg	RI	mg/kg	RI	mg/kg	RI		
Benzene	Onus/KL.	ND	0.00108	ND	0.00101	ND	0.00105	ND	0.00105		
Toluene		ND	0.00216	ND	0.00202	ND	0.00211	ND	0.00211		
Ethylbenzene		ND	0.00108	ND	0.00101	ND	0.00105	ND	0.00105		
m,p-Xylenes		ND	0.00216	ND	0.00202	ND	0.00211	ND	0.00211		
o-Xylene		ND	0.00108	ND	0.00101	ND	0.00105	ND	0.00105		
Total Xylenes		ND	0.00108	ND	0.00101	ND	0.00105	ND	0.00105		
Total BTEX		ND	0.00108	ND	0.00101	ND	0.00105	ND	0.00105		
Inorganic Anions by EPA 300/300.1	Extracted:	Jun-20-13	10:00	Jun-20-13 1	0:00	Jun-20-13	10:00	Jun-20-13	10:00		
	Analyzed:	Jun-20-13	14:07	Jun-20-13 1	4:29	Jun-20-13	15:07	Jun-20-13	16:12		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		705	20.0	420	20.0	766	20.0	628	20.0		
Percent Moisture	Extracted:										
	Analyzed:	Jun-18-13	15:50	Jun-18-13 1	5:50	Jun-18-13	15:50	Jun-18-13	15:50		
	Units/RL:	%	RL	%	RL	%	RL	%	RL		
Percent Moisture		7.28	1.00	1.78	1.00	5.01	1.00	5.72	1.00		
TPH By SW8015 Mod	Extracted:	Jun-19-13	15:30	Jun-19-13 1	5:30	Jun-19-13	15:30	Jun-19-13	15:30		
	Analyzed:	Jun-20-13 (	Jun-20-13 05:59 Jun-20-13 06:25		Jun-20-13 06:51 Jun-20-13 09:50		)9:50				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
C6-C12 Gasoline Range Hydrocarbons		ND	16.1	ND	15.2	ND	15.8	ND	15.9		
C12-C28 Diesel Range Hydrocarbons		121	16.1	186	15.2	ND	15.8	ND	15.9		
C28-C35 Oil Range Hydrocarbons		ND	16.1	34.0	15.2	ND	15.8	ND	15.9		
Total TPH		121	16.1	220	15.2	ND	15.8	ND	15.9		

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

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Version: 1.%

Kms Boah

Kelsey Brooks Project Manager

Page 5 of 17



### **Flagging Criteria**



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

LOD Limit of Detection

\* Surrogate recovered outside laboratory control limit.

- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection Limit
   SDL Sample Detection Limit
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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2505 North Falkenburg Rd, Tampa, FL 33619
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6017 Financial Drive, Norcross, GA 30071
3725 E. Atlanta Ave, Phoenix, AZ 85040

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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Phone

(281) 240-4200

(214) 902 0300

(210) 509-3334

Fax

(281) 240-4280

(214) 351-9139

(210) 509-3335



### Project Name: SUG A-14 Compressor Station

Work Orders: 465234	,	Project ID:					
Lab Batch #: 916634	Sample: 465234-001 / SMP	Batch: 1 Matrix: Soil					
Units: mg/kg	Date Analyzed: 06/20/13 05:59	SURROGATE RECOVERY STUDY					
ТРН	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane		91.3	99.7	92	70-135		
o-Terphenyl		48.6	49.9	97	70-135		
Lab Batch #: 916634	Sample: 465234-002 / SMP	Batc	h: <sup>1</sup> Matrix:	Soil			
Units: mg/kg	Date Analyzed: 06/20/13 06:25	SU	RROGATE RI	ECOVERY	STUDY		
TPH	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane		103	99.5	104	70-135	ļ	
o-Terphenyl		53.4	49.8	107	70-135		
Lab Batch #: 916634	Sample: 465234-003 / SMP	Batc	h: <sup>1</sup> Matrix:	Soil	<u> </u>		
Units: mg/kg	Date Analyzed: 06/20/13 06:51	SURROGATE RECOVERY STUDY					
ТРН	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane	Anaryus	101	100	101	70.135		
o-Terphenyl		53.2	50.0	101	70-135		
L ab Batch #: 916634	Sample: 465234-004 / SMP	Bate	h• 1 Matrix	Soil		<u>.</u>	
Lab Datch #. 910001	Date Analyzed: 06/20/13 09:50	SURROGATE RECOVERY STUDY					
TPH :	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
	Analytes			[D]			
1-Chlorooctane		98.8	99.8	99	70-135		
o-Terphenyl		51.2	49.9	103	70-135		
Lab Batch #: 916711	Sample: 465234-001 / SMP	Batch: 1 Matrix: Soil					
Units: mg/kg	Date Analyzed: 06/20/13 10:45	SURROGATE RECOVERY STUDY					
BTE	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorobenzene		0.0277	0.0300	92	80-120	[	
4-Bromofluorobenzene		0.0289	0.0300	96	80-120		

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



### Project Name: SUG A-14 Compressor Station

Work Orders : 465234	·,		Project II	):			
Lab Batch #: 916711	Sample: 465234-002 / SMP	P Batch: 1 Matrix: Soil					
Units: mg/kg	SU	RROGATE RE	<b>COVERY</b>	STUDY			
BTEX	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorobenzene		0.0245	0.0300	82	80-120		
4-Bromofluorobenzene		0.0297	0.0300	99	80-120		
Lab Batch #: 916711	Sample: 465234-004 / SMP	Batcl	h: 1 Matrix:	Soil			
Units: mg/kg	Date Analyzed: 06/20/13 13:13	SURROGATE RECOVERY STUDY					
BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluorobenzene		0.0258	0.0300	86	80-120		
4-Bromofluorobenzene		0.0287	0.0300	96	80-120		
Lab Batch #: 916711	Sample: 465234-003 / SMP	Batcl	h: 1 Matrix:	Soil	<u>.</u>		
Units: mg/kg	Date Analyzed: 06/20/13 13:46	SU.	RROGATE RF	<b>COVERY</b>	STUDY		
BTEX	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorobenzene		0.0306	0.0300	102	80-120		
4-Bromofluorobenzene		0.0316	0.0300	105	80-120		
Lab Batch #: 916634	Sample: 639939-1-BLK / BI	LK Batch: 1 Matrix: Solid					
Units: mg/kg	Date Analyzed: 06/20/13 05:33	SURROGATE RECOVERY STUDY					
ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
	Analytes			[10]			
1-Chlorooctane		108	99.5	109	70-135		
	~ - C00002 1 DLK / D	J0./	49.0	114	/0-155		
Lab Batch #: 916/11 Sample: 639983-1-BLK / BLK Batch: 1 Matrix: Solid							
Units: mg/kg	Date Analyzed: 06/20/13 10:06	50	KKUGALE NE				
BTEX	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluorobenzene		0.0299	0.0300	100	80-120	·	
4-Bromofluorobenzene		0.0317	0.0300	106	80-120		

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.


# Project Name: SUG A-14 Compressor Station

Vork Orders : 465234	÷,		Project II	):		
Lab Batch #: 916634	Sample: 639939-1-BKS / B	KS Batch	1: 1 Matrix:	Solid		
Units: mg/kg	Date Analyzed: 06/20/13 04:42	SUI	RROGATE RF	<b>COVERY</b>	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		93.9	99.7	94	70-135	 I
o-Terphenyl		58.0	49.9	116	70-135	
Lab Batch #: 916711	Sample: 639983-1-BKS / B	KS Batch	n: 1 Matrix:	Solid	<u>.</u>	
Units: mg/kg	Date Analyzed: 06/20/13 09:33	SUI	RROGATE RF	<b>COVERY</b>	STUDY	
BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4-Difluorobenzene	1 mary ves	0.0311	0.0300	104	80-120	
4-Bromofluorobenzene		0.0306	0.0300	102	80-120	
Lah Ratch #: 916634	Sample: 639939-1-BSD / B	SD Batch	• 1 Matrix	• Solid	<u>                                      </u>	
Lao Dawn "	Date Analyzed: 06/20/13 05:07	SU SUI	RROGATE RI	ECOVERY (	STUDY	
TPH ]	By SW8015 Mod	Amount Found	True Amount	Recovery	Control Limits	Flags
	Analytes	[A]	נשן	[D]	70 <b>N</b>	l
1-Chlorooctane		104	99.9	104	70-135	
o-Terphenyl		58.3	50.0	117	70-135	
Lab Batch #: 916711	<b>Sample:</b> 639983-1-BSD / B	SD Batch	n: 1 Matrix:	Solid		
Units: mg/kg	Date Analyzed: 06/20/13 09:50	SUI	RROGATE RF	<b>COVERY</b> S	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes					J
1,4-Difluorobenzene		0.0346	0.0300	115	80-120	·
4-Bromofluorobenzene		0.0300	0.0300	100	80-120	
Lab Batch #: 916634	Sample: 465234-003 S / MS	5 Batch	1: 1 Matrix:	Soil	~~~~~	
Units: mg/kg	Date Analyzed: 06/20/13 07:17	SUI	RROGATE KE	COVERY S	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		106	99.7	106	70-135	
o-Terphenyl		55.5	49.9	111	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Project Name: SUG A-14 Compressor Station

Work Orders : 465234	,		Project II	):					
Lab Batch #: 916711	Sample: 465234-003 S / MS	S Bate	h: <sup>1</sup> Matrix:	Soil					
Units: mg/kg	Date Analyzed: 06/20/13 12:14	SU	<b>RROGATE RI</b>	ECOVERY	STUDY				
BTE	X by EPA 8021B	Amount Found [A]	AmountTrueFoundAmountRecovery[A][B]%R[D]						
1 4-Difluorobenzene	Analytes	0.0330	0.0300	110	80-120				
4-Bromofluorobenzene		0.0338	0.0300	113	80-120				
Lab Batch #: 916634	Sample: 465234-003 SD / N	MSD Batcl	h: <sup>1</sup> Matrix:	:Soil	I				
Units: mg/kg	Date Analyzed: 06/20/13 07:42	SU	RROGATE RI	ECOVERY	STUDY				
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctane		106	100	106	70-135				
o-Terphenyl		58.2	50.2	116	70-135				
Lab Batch #: 916711	Sample: 465234-003 SD / N	MSD Bate	h: <sup>1</sup> Matrix:	Soil					
Units: mg/kg	Date Analyzed: 06/20/13 12:30	2:30 SURROGATE RECOVERY STUDY							
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1,4-Difluorobenzene		0.0340	0.0300	113	80-120				
4-Bromofluorobenzene		0.0332	0.0300	111	80-120				

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution



#### Project Name: SUG A-14 Compressor Station

<b>Work Order #:</b> 465234							Proj	ect ID:									
Analyst: DYV	Da	ate Prepar	ed: 06/20/201	3			Date Ar	nalyzed: 0	6/20/2013								
Lab Batch ID: 916711         Sample: 639983-1-E	BKS	Batcl	<b>h #:</b> 1			Matrix: Solid											
Units: mg/kg		BLAN	K /BLANK S	SPIKE / E	BLANK S	PIKE DUPI	LICATE I	RECOVE	CRY STUD	UDY							
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag						
Benzene	<0.000998	0.0998	0.115	115	0.100	0.105	105	9	70-130	35							
Toluene	<0.00200	0.0998	0.117	117	0.100	0.104	104	12	70-130	35							
Ethylbenzene	<0.000998	0.0998	0.117	117	0.100	0.118	118	1	71-129	35							
m,p-Xylenes	<0.00200	0.200	0.227	114	0.200	0.218	109	4	70-135	35							
o-Xylene	<0.000998	0.0998	0.106	106	0.100	0.112	112	6	71-133	35							
Analyst: AMB	Da	ate Prepar	ed: 06/20/201	3			Date A	nalyzed: 0	6/20/2013								
Lab Batch ID: 916727 Sample: 639988-1-E	BKS	Batcl	<b>h #:</b> 1					Matrix: S	olid								
Units: mg/kg		BLAN	K /BLANK S	SPIKE / B	BLANK S	PIKE DUPI	LICATE I	RECOVE	CRY STUD	Y							
Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag						
Chloride	<2.00	50.0	46.9	94	50.0	45.6	91	3	80-120	20							

Relative Percent Difference RPD =  $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] =  $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] =  $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes





#### Project Name: SUG A-14 Compressor Station

Work Order #: 465234 Analyst: DYV Lab Batch ID: 916634	Sample: 639939-1-B	Date Prepared:         06/19/2013           Batch #:         1					Date Prepared:         06/19/2013           Sample:         639939-1-BKS         Batch #:         1						Project ID: Date Analyzed: 06/20/2013 Matrix: Solid						
Units: mg/kg			BLAN	K /BLANK S	SPIKE / E	BLANK S	PIKE DUPL	ICATE	RECOVE	ERY STUD	Y								
TPH By SW8015 Mod		Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag							
Analytes			[B]	[C]	[D]	[E]	Result [F]	[G]											
C6-C12 Gasoline Range Hydroca	rbons	<15.0	997	1120	112	999	1060	106	6	70-135	35								
C12-C28 Diesel Range Hydrocart	oons	<15.0	997	1150	115	999	1120	112	3	70-135	35								

Relative Percent Difference RPD =  $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] =  $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] =  $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



## Form 3 - MS Recoveries



#### Project Name: SUG A-14 Compressor Station

Work Order #: 465234 Lab Batch #: 916727	Proporad: 06/20	0/2013	Pro	oject ID:	MR		
QC- Sample ID: 465334-001 S	Batch #: 1	<b>IV</b> / <b>M</b> A '	Matrix: Soil				
Inorganic Anions by EPA 300	Parent		Spiked Sample	RECOV	Control		
Analytes	Sample Result [A]	Spike Added [B]	Result [C]	%R [D]	Limits %R	Flag	
Chloride	3.26	50.0	45.3	84	80-120		

Matrix Spike Percent Recovery [D] = 100\*(C-A)/BRelative Percent Difference [E] = 200\*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



### Form 3 - MS / MSD Recoveries

#### **Project Name: SUG A-14 Compressor Station**



<b>Work Order # :</b> 465234						Project II	):				
Lab Batch ID: 916711	QC- Sample ID:	465234	-003 S	Ba	tch #:	1 Matrix	x: Soil				
<b>Date Analyzed:</b> 06/20/2013	Date Prepared:	06/20/2	013	An	alyst: I	DYV					
Reporting Units: mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
BTEX by EPA 8021B	Parent Sample Result	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD	Control Limits	Control Limits % RPD	Flag
Analytes	[A]	[B]		[D]	[E]	Kesutt [F]	[G]	/0	701		
Benzene	< 0.00106	0.106	0.102	96	0.105	0.0982	94	4	70-130	35	
Toluene	<0.00211	0.106	0.114	108	0.105	0.0955	91	18	70-130	35	
Ethylbenzene	< 0.00106	0.106	0.110	104	0.105	0.0950	90	15	71-129	35	
m,p-Xylenes	<0.00211	0.211	0.202	96	0.209	0.171	82	17	70-135	35	
o-Xylene	< 0.00106	0.106	0.0932	88	0.105	0.0898	86	4	71-133	35	
Lab Batch ID: 916634	QC- Sample ID:	465234	-003 S	Ba	tch #:	1 Matrix	<b>x:</b> Soil				
<b>Date Analyzed:</b> 06/20/2013	Date Prepared:	06/19/2	013	An	alyst: I	DYV					
Reporting Units: mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
TPH By SW8015 Mod	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		[D]	[E]		[G]				
C6-C12 Gasoline Range Hydrocarbons	<15.7	1050	1130	108	1060	1150	108	2	70-135	35	

<15.7

1050

1210

115

1060

1250

118

3

70-135

35

C12-C28 Diesel Range Hydrocarbons

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E





### Project Name: SUG A-14 Compressor Station

Work Order #: 465234

Lab Batch #: 916555				Project I	D:	
Date Analyzed: 06/18/2013 15:50	Date Prepar	ed: 06/18/2013	Anal	yst:WRU		
QC- Sample ID: 465234-001 D	Batch	n#: 1	Mat	rix: Soil		
<b>Reporting Units:</b> %		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture		Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte			[ <b>B</b> ]			
Percent Moisture		7.28	7.22	1	20	

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

Relinquis	Relinquis	Relinguis	Special			-				LAB # (lab use only)	ORDEP	(lab use							The Env
shed by:	hed by:	hed by Roma	Instructions:			ES	SS	SM	BF	FIE	10020	CUN 11 (Vino	Sampler Signature	Telephone No:	City/State/Zip:	Company Address:	Company Name	Project Manager:	ironmental Lab of Tex
		6				N-1 @ 2'	V-1 @ 1'	N-1@1'	-3@3'	LD CODE	Ĭ	-	Ant	432.520.7720	Midland, TX 79703	2057 Commerce	Nova Safety and E		a
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Time	Time	Time			1	×	×	×	×	TPH: 418.1 8015M 80	015B			For		rojec	Pro	ject	
1	0	0.05	< 00 F			-	+	-	-	TPH: TX 1005 TX 1006	3			nat:	Р	tLo	ject	Nam	
	b	abel	abo amp		-	-	+	+	-	Cations (Ca, Mg, Na, K)	-	4		5	*	2	*	100	
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_						13	17	1	1	Standard TAT								1	

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Final 1.001



# **XENCO Laboratories**



#### Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 06/18/2013 01:40:00 PM **Temperature Measuring device used :** Work Order #: 465234

Sampl	e Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ co	oler? Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6 *Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Sample instructions complete on Chain of Custo	ody? Yes	
#9 Any missing/extra samples?	No	
#10 Chain of Custody signed when relinquished/ re	eceived? Yes	
#11 Chain of Custody agrees with sample label(s)?	Yes	
#12 Container label(s) legible and intact?	Yes	
#13 Sample matrix/ properties agree with Chain of	Custody? Yes	
#14 Samples in proper container/ bottle?	Yes	
#15 Samples properly preserved?	Yes	
#16 Sample container(s) intact?	Yes	
#17 Sufficient sample amount for indicated test(s)?	Yes	
#18 All samples received within hold time?	Yes	
#19 Subcontract of sample(s)?	Yes	
#20 VOC samples have zero headspace (less than	1/4 inch bubble)? Yes	
#21 <2 for all samples preserved with HNO3,HCL,	H2SO4? Yes	
#22 >10 for all samples preserved with NaAsO2+N	aOH, ZnAc+NaOH? Yes	

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

Analyst:

PH Device/Lot#:

Checklist completed by: Mmg Moah Kelsey Brooks Checklist reviewed by: Mmg Moah Kelsey Brooks

Date: 06/18/2013

Date: 06/18/2013

# Analytical Report 465409

# for Southern Union Gas Services- Monahans

Project Manager: Camille Bryant

**SUG A-14 Compressor Station** 

### 21-JUN-13

Collected By: Client





#### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



21-JUN-13



Project Manager: **Camille Bryant Southern Union Gas Services- Monahans** 801 South Loop 464 Monahans, TX 79756

Reference: XENCO Report No(s): 465409 SUG A-14 Compressor Station Project Address: Lea County, New Mexico

#### **Camille Bryant**:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 465409. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 465409 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully.

Kelsey Brooks Project Manager

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## Sample Cross Reference 465409



### Southern Union Gas Services- Monahans, Monahans, TX

SUG A-14 Compressor Station

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
WSW-1A @ 2'	S	06-19-13 12:00		465409-001
ESW-1A @2'	S	06-19-13 14:00		465409-002



### CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans Project Name: SUG A-14 Compressor Station

Project ID: Work Order Number(s): 465409 Report Date: 21-JUN-13 Date Received: 06/20/2013

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

**Analytical non conformances and comments:** Batch: LBA-916793 Inorganic Anions by EPA 300/300.1 E300

Batch 916793, Chloride recovered above QC limits in the Matrix Spike. Samples affected are: 465409-001, -002. The Laboratory Control Sample for Chloride is within laboratory Control Limits



**Project Id:** 

Contact: Camille Bryant

Project Location: Lea County, New Mexico

### Certificate of Analysis Summary 465409

Southern Union Gas Services- Monahans, Monahans, TX

Project Name: SUG A-14 Compressor Station



Date Received in Lab: Thu Jun-20-13 02:45 pm

Report Date: 21-JUN-13

Project Manager: Kelsey Brooks

						<u>v</u>	<u> </u>	
	Lab Id:	465409-0	001	465409-0	02			
Analysis Proprested	Field Id:	WSW-1A	@ 2'	ESW-1A	@2'			
Analysis Kequeslea	Depth:							
	Matrix:	SOIL	SOIL					
	Sampled:	Jun-19-13	12:00	Jun-19-13 1	4:00			
Inorganic Anions by EPA 300/300.1	Extracted:	Jun-21-13	06:00	Jun-21-13 0	)6:00			
	Analyzed:	Jun-21-13	09:12	Jun-21-13 0	9:55			
	Units/RL:	mg/kg	RL	mg/kg	RL			
Chloride		19.6	3.00	9.53	4.00			
Percent Moisture	Extracted:							
	Analyzed:	Jun-20-13	15:55	Jun-20-13 1	5:55			
	Units/RL:	%	RL	%	RL			
Percent Moisture	6.35	1.00	8.98	1.00				

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

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

Huns Boah

Kelsey Brooks Project Manager

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# **Flagging Criteria**



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

LOD Limit of Detection

\* Surrogate recovered outside laboratory control limit.

- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection Limit
   SDL Sample Detection Limit
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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2505 North Falkenburg Rd, Tampa, FL 33619
12600 West I-20 East, Odessa, TX 79765
6017 Financial Drive, Norcross, GA 30071
3725 E. Atlanta Ave, Phoenix, AZ 85040

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210) 507-5554	(210) 509-5555
813) 620-2000	(813) 620-2033
432) 563-1800	(432) 563-1713
770) 449-8800	(770) 449-5477
602) 437-0330	

Phone

(281) 240-4200

(214) 902 0300

Final 1.000

Fax

(281) 240-4280

(214) 351-9139





#### Project Name: SUG A-14 Compressor Station

Work Order #: 465409 Analyst: AMB		Da	ate Prepar	red: 06/21/201	3			Pro Date A	ject ID: nalyzed: ()	6/21/2013		
Lab Batch ID: 916793	Sample: 640041-1-B	KS	Batcl	<b>h #:</b> 1		Matrix: Solid						
Units: mg/kg	[		BLAN	K /BLANK S	PIKE / E	BLANK S	PIKE DUPL	ICATE	RECOVE	ERY STUD	Y	
Inorganic Anions by E	EPA 300/300.1	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes			[ <b>B</b> ]	[C]	[D]	[E]	Result [F]	[G]				
Chloride		<2.00	50.0	46.6	93	50.0	45.9	92	2	80-120	20	

Relative Percent Difference RPD =  $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] =  $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] =  $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



## Form 3 - MS Recoveries



#### **Project Name: SUG A-14 Compressor Station**

<b>Work Order #:</b> 465409							
Lab Batch #: 916793			Pr	oject ID:			
<b>Date Analyzed:</b> 06/21/2013 <b>Da</b>	te Prepared: 06/2	1/2013	A	analyst: A	analyst: AMB		
QC- Sample ID: 465409-001 S	<b>Batch #:</b> 1		1	Matrix: So	oil		
Reporting Units: mg/kg	MATH	RIX / MA	TRIX SPIKE	RECOV	VERY STU	DY	
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result	%R [D]	Control Limits %R	Flag	
Analytes	[A]	[B]	[0]	[D]			
Chloride	19.6	75.0	84.6	87	80-120		
Lab Batch #: 916793							
<b>Date Analyzed:</b> 06/21/2013 <b>Da</b>	te Prepared: 06/2	1/2013	A	analyst: A	MB		
QC- Sample ID: 465423-009 S	<b>Batch #:</b> 1		I	Matrix: So	oil		
Reporting Units: mg/kg	MATH	RIX / MA	TRIX SPIKE	RECOV	VERY STU	DY	
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag	
Analytes	[A]	[B]					
Chloride	7230	5000	13500	125	80-120	Х	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/BRelative Percent Difference [E] = 200\*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit





### **Project Name: SUG A-14 Compressor Station**

Work Order #: 465409

Lab Batch #: 916757			Projec	et ID:	
Date Analyzed: 06/20/2013 15:55	Date Prepared: 06/20	/2013	Analyst: W	RU	
QC- Sample ID: 465409-001 D	<b>Batch #:</b> 1		Matrix: So	il	
Reporting Units: %	SAMI	PLE / SAMI	PLE DUPL	ICATE REC	OVERY
Percent Moisture	Parent Sa Resu [A]	imple Samı lt Duplic Resu	ole ate RPD lt	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	6.35	6.18	3 3	20	

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

Relinquis	Relinquis	Relinquis	Special								LAB # (lab use only)	ORDEP	(lab use							The Env
hed by:	hed by:	thed by:	Instructions:						ESV	VSM	2	HC01 #	only)	Sampler Signature	Telephone No:	City/State/Zip:	Company Address:	Company Name	Project Manager:	ironmental Lab of Tex
Da	Da	De							V-1A @ 2'	N-1A @ 2'	LD CODE	09	5	Conthe Kep	432.520.7720	Midland, TX 79703	2057 Commerce	Nova Safety and Env		S
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า ๊	ŵ	ť	1								TPH: TX 1005 TX 1006	6			mat	PO	ctL	ojec	Nar	
Tem	San	Lab Cus	Lab San		-					-	Cations (Ca, Mg, Na, K)					#	00	#	ne:	
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ature	Han	sea sea	Con					-			SAR / ESP / CEC		P. P.	1	Stan				A-1	
Cp	er/C	Is or	Con taine of He	-	-	_	++	+		-	Metals: As Ag Ba Cd Cr Pb H	g Se	+	Ana	dard				4 Co	ax:
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	ar								×	×	Standard TAT	1								

Final 1.000



# **XENCO** Laboratories



#### Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 06/20/2013 02:45:00 PM **Temperature Measuring device used :** Work Order #: 465409

Comments Sample Receipt Checklist 2 #1 \*Temperature of cooler(s)? #2 \*Shipping container in good condition? Yes #3 \*Samples received on ice? Yes #4 \*Custody Seals intact on shipping container/ cooler? Yes #5 Custody Seals intact on sample bottles? Yes #6 \*Custody Seals Signed and dated? Yes #7 \*Chain of Custody present? Yes #8 Sample instructions complete on Chain of Custody? Yes #9 Any missing/extra samples? No #10 Chain of Custody signed when relinquished/ received? Yes #11 Chain of Custody agrees with sample label(s)? Yes #12 Container label(s) legible and intact? Yes #13 Sample matrix/ properties agree with Chain of Custody? Yes #14 Samples in proper container/ bottle? Yes #15 Samples properly preserved? Yes #16 Sample container(s) intact? Yes #17 Sufficient sample amount for indicated test(s)? Yes #18 All samples received within hold time? Yes #19 Subcontract of sample(s)? Yes #20 VOC samples have zero headspace (less than 1/4 inch bubble)? Yes #21 <2 for all samples preserved with HNO3,HCL, H2SO4? Yes #22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH? Yes

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

Analyst:

PH Device/Lot#:

Checklist completed by: Mmr Moah Kelsey Brooks Checklist reviewed by: Mmr Moah Kelsey Brooks

Date: 06/20/2013

Date: 06/20/2013

# **Analytical Report 465904**

### for

### Southern Union Gas Services- Monahans

**Project Manager: Camille Bryant** 

SUG A-14 Compressor Station (Slug Overflow)

#### 01-JUL-13

Collected By: Client





#### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



01-JUL-13



Project Manager: **Camille Bryant Southern Union Gas Services- Monahans** 801 South Loop 464 Monahans, TX 79756

Reference: XENCO Report No(s): 465904 SUG A-14 Compressor Station (Slug Overflow) Project Address: Lea County, New Mexico

#### **Camille Bryant**:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 465904. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 465904 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully.

Kelsey Brooks Project Manager

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## Sample Cross Reference 465904



### Southern Union Gas Services- Monahans, Monahans, TX

SUG A-14 Compressor Station (Slug Overflow)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Containment NW-1@2'	S	06-26-13 13:15		465904-001



### CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans Project Name: SUG A-14 Compressor Station (Slug Overflow)

Project ID: Work Order Number(s): 465904 Report Date:01-JUL-13Date Received:06/28/2013

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



**Project Id:** 

Contact: Camille Bryant

Project Location: Lea County, New Mexico

### Certificate of Analysis Summary 465904

Southern Union Gas Services- Monahans, Monahans, TX

Project Name: SUG A-14 Compressor Station (Slug Overflow)



Date Received in Lab: Fri Jun-28-13 08:40 am

Report Date: 01-JUL-13

Project Manager: Kelsey Brooks

	Lab Id:	465904-0	001			
Ameluaia Degranated	Field Id:	Containment N	JW-1@2'			
Analysis Kequesiea	Depth:					
	Matrix:	SOIL	,			
	Sampled:	Jun-26-13	13:15			
BTEX by EPA 8021B	Extracted:	Jul-01-13 (	08:00			
	Analyzed:	Jul-01-13	12:12			
	Units/RL:	mg/kg	RL	 	 	
Benzene		ND	0.00109			
Toluene		0.0100	0.00219			
Ethylbenzene		0.0139	0.00109			
m,p-Xylenes		0.0517	0.00219			
o-Xylene		0.0439	0.00109			
Total Xylenes		0.0956	0.00109			
Total BTEX		0.120	0.00109			
Inorganic Anions by EPA 300/300.1	Extracted:	Jun-28-13	11:00			
	Analyzed:	Jun-29-13	14:36			
	Units/RL:	mg/kg	RL	 	 	
Chloride		613	40.0			
Percent Moisture	Extracted:					
	Analyzed:	Jul-01-13 (	09:00			
	Units/RL:	%	RL	 	 	
Percent Moisture		9.16	1.00			
TPH By SW8015 Mod	Extracted:	Jun-28-13	11:30			
	Analyzed:	Jun-29-13	01:48			
	Units/RL:	mg/kg	RL			
C6-C12 Gasoline Range Hydrocarbons		1360	16.5			
C12-C28 Diesel Range Hydrocarbons		5190	16.5			
C28-C35 Oil Range Hydrocarbons		336	16.5			
Total TPH		6890	16.5			

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

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

Huns Boah

Kelsey Brooks Project Manager



# **Flagging Criteria**



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

LOD Limit of Detection

- \*\* Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection Limit SDL Sample Detection Limit
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
6017 Financial Drive, Norcross, GA 30071	(770) 449-8800	(770) 449-5477
3725 E. Atlanta Ave, Phoenix, AZ 85040	(602) 437-0330	



## Project Name: SUG A-14 Compressor Station (Slug Overflow)

<b>Nork Orders :</b> 465904	, 465904	Project ID: P Batch: 1 Matrix: Soil								
Lab Batch #: 91/404	Sample: 403904-001 / Sivir	Batel SII	h: <sup>1</sup> Matrix: <b>PROCATE RE</b>	Soll	TUDV					
Units: mg/kg	Date Analyzed: 06/29/13 01:48 By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1 Chlorooctane	Analytes	106	100	106	70.135					
o-Terphenyl		55.9	50.1	112	70-135					
<b>I I D A I H Q</b> 17475	91-, 465004-001 / SMP		1 Motning	- 112 Coil	10100					
Lab Batch #: 21/4/3 Units: mg/kg	Date Analyzed: 07/01/13 12:12	SU.	RROGATE RE	ECOVERY S	STUDY					
BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1.4-Difluorobenzene		0.0341	0.0300	114	80-120					
4-Bromofluorobenzene		0.0259	0.0300	86	80-120	 I				
Lah Batch #: 917464	Sample: 640440-1-BLK / B	LK Bate	h: 1 Matrix:	Solid	<u>                                     </u>					
Units: mg/kg	Date Analyzed: 06/29/13 01:23	SU	RROGATE RF	COVERY S	STUDY					
ТРН І	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooctane		93.6	100	94	70-135					
o-Terphenyl		55.5	50.1	111	70-135					
Lab Batch #: 917475	Sample: 640494-1-BLK / B	LK Bate	h: 1 Matrix:	Solid	<u> </u>					
Units: mg/kg	Date Analyzed: 07/01/13 09:33	SU	RROGATE RF	COVERY S	STUDY					
ВТЕХ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1 4-Difluorobenzene	Analytes	0.0250	0.0300	120	<u>%0 120</u>	1				
4-Bromofluorobenzene		0.0339	0.0300	80	80-120					
Lab Batab # 017464	$\mathbf{Somplay} = 640440 + \mathbf{BKS} / \mathbf{B}^{2}$	VC Data	L. 1 Motning	Solid	00120					
	Data Analyzadi 06/20/12 00:22	NS Date	RROGATE RF	COVERY (	STUDY					
TPH I	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooctane		97.9	99.7	98	70-135					
o-Terphenyl		60.2	49.9	121	70-135					

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution



## Project Name: SUG A-14 Compressor Station (Slug Overflow)

Vork Orders: 465904	, 465904		Project II	):		
Lab Batch #: 917475	Sample: 640494-1-BKS / B	KS Batch:	: 1 Matrix:	Solid		
Units: mg/kg	Date Analyzed: 07/01/13 08:45	SUK	ROGATE RE	COVERY :	STUDY	
ВТЕХ	X by EPA 8021B Analvtes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0306	0.0300	102	80-120	
4-Bromofluorobenzene		0.0247	0.0300	82	80-120	
Lab Batch #: 917464	Sample: 640440-1-BSD / B	SD Batch:	: 1 Matrix:	Solid	<u>.</u>	
Units: mg/kg	Date Analyzed: 06/29/13 00:59	SUR	ROGATE RE	COVERY	STUDY	
ТРН І	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	94.4	99.9	94	70-135	
o-Terphenyl		58.7	50.0	117	70-135	
Lab Batch #: 917475	Sample: 640494-1-BSD / B	SD Batch:	: 1 Matrix:	Solid	<u>,                                    </u>	
Units: mg/kg	Date Analyzed: 07/01/13 09:01	SUR	ROGATE RE	COVERY	STUDY	
втех	X by EPA 8021B Analvtes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	-	0.0319	0.0300	106	80-120	
4-Bromofluorobenzene		0.0246	0.0300	82	80-120	
Lab Batch #: 917464	Sample: 465868-003 S / MS	S Batch:	: 1 Matrix:	Soil	<u>.</u>	
Units: mg/kg	Date Analyzed: 07/01/13 10:27	SUR	ROGATE RE	COVERY	STUDY	
ТРН Ј	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			נען		
1-Chlorooctane		93.8	99.5	94	70-135	ļ
o-Terphenyl		55.3	49.8	111	70-135	<u>.</u>
Lab Batch #: 917475	Sample: 465914-001 S / MS	S Batch:	1 Matrix:	Soil		
Units: mg/kg	Date Analyzed: 07/01/13 12:28	SUK	ROGATE RE	COVERY :	STUDY	
ВТЕХ	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0354	0.0300	118	80-120	
4-Bromofluorobenzene		0.0277	0.0300	92	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution



## Project Name: SUG A-14 Compressor Station (Slug Overflow)

Work Orders: 465904,	465904	Project ID:								
Lab Batch #: 917464	ASD Bate	h: <sup>1</sup> Matrix:	Soil							
Units: mg/kg	Date Analyzed: 07/01/13 10:52	SU	RROGATE RI	ECOVERY S	STUDY					
ТРН В	y SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
	Analytes			נען						
1-Chlorooctane	94.1	99.6	94	70-135						
o-Terphenyl		56.2	49.8	113	70-135					

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution





#### Project Name: SUG A-14 Compressor Station (Slug Overflow)

<b>Work Order #:</b> 465904, 465904							Proj	ject ID:				
Analyst: DYV	Da	ate Prepar	ed: 07/01/201	3		<b>Date Analyzed:</b> 07/01/2013						
Lab Batch ID: 917475         Sample: 640494-1-B	KS	Batch	n#: 1			Matrix: Solid						
Units: mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
Analytes					L_1							
Benzene	<0.000998	0.0998	0.119	119	0.0996	0.119	119	0	70-130	35		
Toluene	<0.00200	0.0998	0.101	101	0.0996	0.0982	99	3	70-130	35		
Ethylbenzene	<0.000998	0.0998	0.0831	83	0.0996	0.0815	82	2	71-129	35		
m,p-Xylenes	< 0.00200	0.200	0.165	83	0.199	0.161	81	2	70-135	35		
o-Xylene	<0.000998	0.0998	0.0833	83	0.0996	0.0819	82	2	71-133	35		
Analyst: AMB	Da	ate Prepar	ed: 06/28/201	3			Date A	nalyzed: 0	6/29/2013			
Lab Batch ID: 917467         Sample: 640490-1-B	KS	Batch	n#: 1					Matrix: S	Solid			
Units: mg/kg		BLAN	K /BLANK S	SPIKE / E	BLANK S	PIKE DUPI	LICATE 1	RECOVE	ERY STUD	Y		
Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
Chloride	<2.00	50.0	45.8	92	50.0	45.2	90	1	80-120	20		

Relative Percent Difference RPD =  $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] =  $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] =  $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes





#### Project Name: SUG A-14 Compressor Station (Slug Overflow)

<b>Work Order #:</b> 465904, 46				Project ID:												
Analyst: DYV	Da	ate Prepar	red: 06/28/201		Date Analyzed: 06/29/2013											
Lab Batch ID: 917464	Sample: 640440-1-B	KS	Batcl	h#: 1		Matrix: Solid										
Units: mg/kg	Units: mg/kg BLANK /BLANK SPIKE / BLA							LANK SPIKE DUPLICATE RECOVERY STUDY								
TPH By SW8015 Mod		Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag				
Analytes			[ <b>B</b> ]	[C]	[D]	[E]	Result [F]	[G]								
C6-C12 Gasoline Range Hydroca	rbons	<15.0	997	897	90	999	915	92	2	70-135	35					
C12-C28 Diesel Range Hydrocart	bons	<15.0	997	1040	104	999	1030	103	1	70-135	35					

Relative Percent Difference RPD =  $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] =  $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] =  $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



# Form 3 - MS Recoveries

Project Name: SUG A-14 Compressor Station (Slug Overflow)

<b>Work Order #:</b> 465904											
Lab Batch #: 917475		Project ID:									
<b>Date Analyzed:</b> 07/01/2013	Date Prepared: 07/0	1/2013	A	Analyst: DYV							
QC- Sample ID: 465914-001 S	<b>Batch #:</b> 1		I	Matrix: Soil							
Reporting Units: mg/kg	MATR	MATRIX / MATRIX SPIKE RECOVERY STU									
BTEX by EPA 8021B	Parent Sample Result [A]	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag					
Analytes	[.~]	լոյ									
Benzene	<0.000998	0.0998	0.119	119	70-130						
Toluene	< 0.00200	0.0998	0.0949	95	70-130						
Ethylbenzene	<0.000998	0.0998	0.0829	83	71-129						
m,p-Xylenes	<0.00200	0.200	0.162	81	70-135						
o-Xylene	<0.000998	0.0998	0.0806	81	71-133						
Lab Batch #: 917467											
<b>Date Analyzed:</b> 06/29/2013	Date Prepared: 06/28	8/2013	A	nalyst: A	MB						
QC- Sample ID: 465904-001 S	<b>Batch #:</b> 1		Matrix: Soil								
Reporting Units: mg/kg	MATR	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY					
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag					
Chloride	613	1000	1680	107	80.120						

Matrix Spike Percent Recovery [D] = 100\*(C-A)/BRelative Percent Difference [E] = 200\*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



### Form 3 - MS / MSD Recoveries

#### Project Name: SUG A-14 Compressor Station (Slug Overflow)



Work Order # :	465904						Project II	):				
Lab Batch ID:	917464 Q	C- Sample ID:	465868	-003 S	Ba	tch #:	1 Matri	x: Soil				
Date Analyzed:	07/01/2013	Date Prepared:	<b>Prepared:</b> 06/28/2013 <b>Analyst:</b> DYV									
<b>Reporting Units:</b>	mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
TPH By SW8015 Mod		Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline	Range Hydrocarbons	<17.1	1140	1000	88	1140	975	86	3	70-135	35	
C12-C28 Diesel I	Range Hydrocarbons	<17.1	1140	1180	104	1140	1160	102	2	70-135	35	

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E



Sample Duplicate Recovery



### Project Name: SUG A-14 Compressor Station (Slug Overflow)

Work Order #: 465904

Lab Batch #: 917457				Project I	D:	
Date Analyzed: 07/01/2013 09:00	ed: 07/01/2013	Anal				
QC- Sample ID: 465904-001 D	n#: 1	Mat	rix: Soil			
<b>Reporting Units:</b> %		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture		Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte			[ <b>B</b> ]			
Percent Moisture		9.16	8.96	2	20	

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit



Nikki Green

Lea County, NM

**Contact:** 

**Project Location:** 

Certificate of Analysis Summary 556210

TRC Solutions, Inc, Midland, TX

Project Name: A-14 Compressor Station Slug Overflow



Date Received in Lab:Fri Jun-23-17 03:53 pmReport Date:28-JUN-17Project Manager:Kelsey Brooks

	Lab Id:	556210-001		556210-002		556210-003			
Analysis Doguested	Field Id:	WSW-1a	@ 2'	Containment E	Wa @ 2'	Containment N	Wa @ 2'		
Analysis Kequeslea	Depth:	2- ft		2- ft	2- ft				
	Matrix:	SOIL		SOIL	SOIL				
	Sampled:	Jun-19-17	14:00	Jun-19-17	14:10	Jun-20-17	11:30		
BTEX by EPA 8021B	Extracted:	Jun-27-17 15:00		Jun-27-17 15:00		Jun-27-17 15:00			
	Analyzed:	Jun-28-17	01:05	Jun-28-17 01:22		Jun-28-17 01:38			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200		
Toluene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200		
Ethylbenzene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200		
m,p-Xylenes		< 0.00398	0.00398	< 0.00396	0.00396	< 0.00401	0.00401		
o-Xylene		< 0.00199	0.00199	<0.00198	0.00198	< 0.00200	0.00200		
Total Xylenes		< 0.00199	0.00199	<0.00198	0.00198	< 0.00200	0.00200		
Total BTEX		< 0.00199	0.00199	<0.00198	0.00198	< 0.00200	0.00200		
Chloride by EPA 300	Extracted:	Jun-27-17	13:50	Jun-27-17 16:15		Jun-28-17 08:30			
	Analyzed:	Jun-28-17	00:33	Jun-28-17 (	)1:19	Jun-28-17 11:07			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		90.2	4.99	421	4.98	61.9	4.97		
TPH by SW8015 Mod	Extracted:	Jun-27-17 18:00		Jun-27-17 18:00		Jun-27-17 18:00			
	Analyzed:	Jun-28-17 03:06		Jun-28-17 09:31		Jun-28-17 04:32			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons		<15.0	15.0	<15.0	15.0	<15.0	15.0		
Diesel Range Organics		<15.0	15.0	559	15.0	747	15.0		
Oil Range Hydrocarbons		<15.0	15.0	162	15.0	142	15.0		
Total TPH		<15.0	15.0	721	15.0	889	15.0		

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

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

Huns Boah

Kelsey Brooks Project Manager

Final 1.000

# Analytical Report 556210

for TRC Solutions, Inc

Project Manager: Nikki Green

#### A-14 Compressor Station Slug Overflow

#### TRC #274128

#### 28-JUN-17

Collected By: Client





#### 1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400) Xenco-San Antonio: Texas (T104704534) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)


28-JUN-17

Project Manager: Nikki Green TRC Solutions, Inc 2057 Commerce Midland, TX 79703

### Reference: XENCO Report No(s): **556210** A-14 Compressor Station Slug Overflow Project Address: Lea County, NM

### Nikki Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 556210. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 556210 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Huns hoah

Kelsey Brooks Project Manager

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

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



### Sample Id

WSW-1a @ 2' Containment EWa @ 2' Containment NWa @ 2'

# Sample Cross Reference 556210



## TRC Solutions, Inc, Midland, TX

Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
S	06-19-17 14:00	2 ft	556210-001
S	06-19-17 14:10	2 ft	556210-002
S	06-20-17 11:30	2 ft	556210-003



# CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: A-14 Compressor Station Slug Overflow

Project ID: TRC #274128 Work Order Number(s): 556210 
 Report Date:
 28-JUN-17

 Date Received:
 06/23/2017

### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3020931 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



o-Terphenyl

# **Certificate of Analytical Results 556210**



### TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Slug Overflow

Sample Id:	WSW-1a @ 2'		Matrix:	Soil		Date Received	1:06.23.1	7 15.53	
Lab Sample Id	d: 556210-001		Date Colle	cted: 06.19.17 14.00		Sample Depth	:2 ft		
Analytical Me	ethod: Chloride by EPA	300				Prep Method:	E300P		
Tech:	MGO					% Moisture:			
Analyst:	MGO		Date Prep:	06.27.17 13.50		Basis:	Wet We	ight	
Seq Number:	3020947								
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate F	lag	Dil
Chloride		16887-00-6	90.2	4.99	mg/kg	06.28.17 00.	.33		1

Analytical Method: TPH by SW Tech: ARM	8015 Mod				F %	Prep Method: T	X1005P	
Analyst: ARM		Date Pre	p: 06.27	17 18.00	E	Basis: W	et Weight	
Seq Number: 3020944								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	06.28.17 03.06	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0		mg/kg	06.28.17 03.06	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0		mg/kg	06.28.17 03.06	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.28.17 03.06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	e Flag	
1-Chlorooctane		111-85-3	100	%	70-135	06.28.17 03.06	ñ	

103

%

70-135

06.28.17 03.06

84-15-1





## TRC Solutions, Inc, Midland, TX

Sample Id:         WSW-1a @ 2'           Lab Sample Id:         556210-001	Matrix:	Soil	Date Received	:06.23.17 15.53
	Date Collected	: 06.19.17 14.00	Sample Depth:	2 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3020931	Date Prep:	06.27.17 15.00	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	06.28.17 01.05	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	06.28.17 01.05	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	06.28.17 01.05	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	06.28.17 01.05	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	06.28.17 01.05	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	06.28.17 01.05	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	06.28.17 01.05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	80-120	06.28.17 01.05		
4-Bromofluorobenzene		460-00-4	92	%	80-120	06.28.17 01.05		





## TRC Solutions, Inc, Midland, TX

Sample Id: Lab Sample Id	<b>Containment EWa @ 2</b> : 556210-002	2'	Matrix: Date Collecte	Soil ed: 06.19.17 14.10		Date Received Sample Depth	:06.23.17 15 :2 ft	.53
Analytical Me	thod: Chloride by EPA 3	00				Prep Method:	E300P	
Tech:	MGO			06 07 17 16 16		% Moisture:	<b>X</b> 7 / <b>X</b> 7 · 1 /	
Analyst:	MGO		Date Prep:	06.27.17 16.15		Basis:	wet weight	
Seq Number:	3020953							
Parameter		Cas Number	Result ]	RL	Units	Analysis Da	ate Flag	Dil

i ai ameter	Cusitumber	Result	KL	Units	Analysis Date	Flag	DII
Chloride	16887-00-6	421	4.98	mg/kg	06.28.17 01.19		1

Analytical Method: TPH by SW	8015 Mod				P	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Prep	o: 06.27	17 18.00	E	Basis: We	t Weight	
Seq Number: 3020944								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	06.28.17 09.31	U	1
Diesel Range Organics	C10C28DRO	559	15.0		mg/kg	06.28.17 09.31		1
Oil Range Hydrocarbons	PHCG2835	162	15.0		mg/kg	06.28.17 09.31		1
Total TPH	PHC635	721	15.0		mg/kg	06.28.17 09.31		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	106	%	70-135	06.28.17 09.31		
o-Terphenyl		84-15-1	109	%	70-135	06.28.17 09.31		





## TRC Solutions, Inc, Midland, TX

Sample Id: Lab Sample Id:	<b>Containment EWa @ 2'</b> : 556210-002	Matrix: Date Collected	Soil : 06.19.17 14.10	Date Received Sample Depth	:06.23.17 15.53 :2 ft
Analytical Met Tech:	hod: BTEX by EPA 8021B ALJ			Prep Method: % Moisture:	SW5030B
Analyst:	ALJ	Date Prep:	06.27.17 15.00	Basis:	Wet Weight
Seq Number:	3020931				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	06.28.17 01.22	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	06.28.17 01.22	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	06.28.17 01.22	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	06.28.17 01.22	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	06.28.17 01.22	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	06.28.17 01.22	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	06.28.17 01.22	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	100	%	80-120	06.28.17 01.22		
1,4-Difluorobenzene		540-36-3	100	%	80-120	06.28.17 01.22		





## TRC Solutions, Inc, Midland, TX

Sample Id: Lab Sample Id	<b>Containment NWa @ 2</b> 556210-003		Matrix: Date Collect	Soil ed: 06.20.17 11.30		Date Received Sample Depth	:06.23.17 15 : 2 ft	5.53
Analytical Met Tech:	hod: Chloride by EPA 30 MGO	00				Prep Method: % Moisture:	E300P	
Analyst: Seq Number:	MGO 3020953		Date Prep:	06.28.17 08.30		Basis:	Wet Weigh	t
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate Flag	Dil

Parameter	Cas Number	Kesult	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	61.9	4.97	mg/kg	06.28.17 11.07		1

Analytical Method: TPH by SW8	3015 Mod				P	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 06.27	.17 18.00	E	Basis: We	t Weight	
Seq Number: 3020944								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	06.28.17 04.32	U	1
Diesel Range Organics	C10C28DRO	747	15.0		mg/kg	06.28.17 04.32		1
Oil Range Hydrocarbons	PHCG2835	142	15.0		mg/kg	06.28.17 04.32		1
Total TPH	PHC635	889	15.0		mg/kg	06.28.17 04.32		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	105	%	70-135	06.28.17 04.32		
o-Terphenyl		84-15-1	101	%	70-135	06.28.17 04.32		





## TRC Solutions, Inc, Midland, TX

Sample Id: Lab Sample Id	<b>Containment NWa @ 2'</b>	Matrix: Date Collected	Soil	Date Received	:06.23.17 15.53
Analytical Met	hod: BTEX by EPA 8021B	Dute Conceteu		Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	06.27.17 15.00	Basis:	Wet Weight
Seq Number:	3020931				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.28.17 01.38	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.28.17 01.38	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.28.17 01.38	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	06.28.17 01.38	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.28.17 01.38	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.28.17 01.38	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.28.17 01.38	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	111	%	80-120	06.28.17 01.38		
1,4-Difluorobenzene		540-36-3	102	%	80-120	06.28.17 01.38		



# **Flagging Criteria**



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

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation

- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(602) 437-0330	
	(281) 240-4200 (214) 902 0300 (210) 509-3334 (432) 563-1800 (602) 437-0330



# QC Summary 556210

# TRC Solutions, Inc

Analytical Method:	Chloride by EPA 3	300						Pr	ep Metho	od: E300	)P	
Seq Number:	3020947			Matrix:	Solid				Date Pre	ep: 06.2	7.17	
MB Sample Id:	726861-1-BLK		LCS Sar	nple Id:	726861-1	-BKS		LCSI	O Sample	d: 7268	361-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	249	100	240	96	90-110	4	20	mg/kg	06.27.17 20:53	
Analytical Method:	Chloride by EPA 3	300						Pr	ep Metho	od: E300	)P	
Seq Number:	3020953			Matrix:	Solid			Date Prep: 06.27.17				
MB Sample Id:	726863-1-BLK		LCS Sar	nple Id:	726863-1	-BKS		LCSI	O Sample	Id: 7268	863-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	245	98	251	100	90-110	2	20	mg/kg	06.28.17 01:04	

Analytical Method:	Chloride by EPA 30	0						Pr	ep Metho	od: E30	0P		
Seq Number:	3020947			Matrix:	Soil			Date Prep: 06.27.17					
Parent Sample Id:	555795-008		MS San	MS Sample Id: 555795-008 S					MSD Sample Id: 555795-008 SD				
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Chloride	9.20	246	253	99	254	100	90-110	0	20	mg/kg	06.27.17 21:16		

Analytical Method:	Chloride by EPA 30					Pr	ep Metho	od: E30	0P			
Seq Number:	3020947			Matrix:	Soil				Date Pre	ep: 06.2	7.17	
Parent Sample Id:	556209-002		MS San	nple Id:	556209-00	02 S		MSI	O Sample	Id: 5562	209-002 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	36.3	250	289	101	290	101	90-110	0	20	mg/kg	06.27.17 23:02	

Analytical Method:	Chloride by EPA 3	00						Pr	ep Metho	od: E30	0P	
Seq Number:	3020953			Matrix:	Soil				Date Pre	ep: 06.2	7.17	
Parent Sample Id:	556210-002		MS Sar	nple Id:	556210-00	02 S		MSI	O Sample	Id: 5562	210-002 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	421	249	667	99	657	95	90-110	2	20	mg/kg	06.28.17 01:27	

Analytical Method:	Chloride by	EPA 30	0						Pr	ep Metho	d: E30	OP	
Seq Number:	3020953				Matrix:	Soil				Date Pre	p: 06.2	7.17	
Parent Sample Id:	556211-009			MS San	nple Id:	556211-00	)9 S		MSI	O Sample	Id: 5562	211-009 SD	
Parameter	]	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<4.96	248	272	110	271	109	90-110	0	20	mg/kg	06.28.17 03:13	



# QC Summary 556210

# **TRC Solutions, Inc**

Analytical Method:	TPH by SV	V8015 M	od						Prep Method: TX1005P					
Seq Number:	3020944			Matrix: Solid					Date Prep: 06.27.17					
MB Sample Id:	ole Id: 726859-1-BLK				nple Id:	726859-1-	BKS	LCSD Sample Id: 726859-1-BSD						
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Gasoline Range Hydroca	arbons	<15.0	1000	1060	106	1080	108	70-135	2	35	mg/kg	06.28.17 02:24		
Diesel Range Organics		<15.0	1000	1020	102	1060	106	70-135	4	35	mg/kg	06.28.17 02:24		
Surrogate		MB %Rec	MB Flag	L %	CS Rec	LCS Flag	LCSI %Re	) LCS c Flag	D Li g	mits	Units	Analysis Date		
1-Chlorooctane		102		1	08		109		70	-135	%	06.28.17 02:24		
o-Terphenyl 103				107			110				%	06.28.17 02:24		

TPH by SW	8015 M	od						Prep Method: TX1005P					
3020944			Matrix: Soil					Date Prep: 06.27.17					
556210-001			MS Sample Id: 556210-001 S			MSD Sample Id: 556210-001 SD							
	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
rbons	<15.0	999	1040	104	1010	101	70-135	3	35	mg/kg	06.28.17 03:27		
	<15.0	999	1050	105	986	99	70-135	6	35	mg/kg	06.28.17 03:27		
			N %]	1S Rec	MS Flag	MSD %Ree	MSI c Flag	) Li ç	mits	Units	Analysis Date		
			1	02		99		70	-135	%	06.28.17 03:27		
			1	00		96		70	-135	%	06.28.17 03:27		
	<b>TPH by SW</b> 3020944 556210-001 rbons	<b>TPH by SW8015 M</b> 3020944 556210-001 <b>Parent</b> <b>Result</b> rbons <15.0 <15.0	TPH by SW8015 Mod           3020944           556210-001           Parent         Spike           Result         Amount           rbons         <15.0	TPH by SW8015 Mod           3020944	TPH by SW8015 Mod         3020944       Matrix:         556210-001       MS Sample Id:         Parent Result       Spike Amount       MS       MS         rbons       <15.0	TPH by SW8015 Mod         3020944       Matrix: Soil         556210-001       MS Sample Id: 556210-00         Parent Result Amount       MS       MS       MSD Result         rbons       <15.0	Matrix:       Soil         3020944       Matrix:       Soil         556210-001       MS Sample Id:       556210-001 S         Parent Result       Spike Amount       MS       MS       MSD       MSD         rbons       <15.0	TPH by SW8015 Mod         3020944       Matrix:       Soil         556210-001       MS Sample Id:       556210-001 S         Parent Result Amount       MS Result %Rec       MSD %Rec       MSD %Rec         rbons       <15.0	TPH by SW8015 Mod       Matrix:       Soil         3020944       Matrix:       Soil         556210-001       MS Sample Id:       556210-001 S       MSD         Parent Result       Spike Amount       MS Result       MSD Neeult       MSD Neeult	Prep Meth         3020944       Matrix:       Soil       Date Pr         556210-001       MS Sample Id: $556210-001$ S       MSD Sample         Parent Result       Spike Amount       MS Result       MS Result       MSD Result       MSD %Rec       RPD Limit       RPD Limit         rbons       <15.0	Prep Method:       TX1         3020944       Matrix:       Soil       Date Prep:       06.2         556210-001       MS Sample Id:       556210-001 S       MSD sample Id:       556210-001 S       5662       556210-001 S       MSD sample Id:       556210-001 S       566210-001 S       566210-001 S       566210-001 S       MSD sample Id:       556210-001 S       566210-001 S	Prep Method: TX1005P         3020944       Matrix:       Soil       Date Prep: $TX1005P$ 556210-001       MS Sample Id $556210-001$ $MSD$ $MSD$ $MSD$ $MSD$ $MSD$ $Sample Id$ $56210-001$ $SD$ Parent Result       Spike Amount       MS Result       MS Result       MSD Result       MSD Result $MSD$ $Linit$ $RPD$ $LPD$ $Linit$ $Analysis Date$ rbons       <15.0	

BTEX by EPA 8021	B						P	rep Meth	od: SW:	5030B		
3020931		I	Matrix:	Solid				Date Pr	rep: 06.2	7.17		
726847-1-BLK		LCS San	nple Id:	726847-1	-BKS		LCS	D Sampl	e Id: 726	847-1-BSD		
MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
< 0.00202	0.101	0.103	102	0.103	103	70-130	0	35	mg/kg	06.27.17 20:16		
< 0.00202	0.101	0.0908	90	0.0903	90	70-130	1	35	mg/kg	06.27.17 20:16		
< 0.00202	0.101	0.0968	96	0.0998	100	71-129	3	35	mg/kg	06.27.17 20:16		
< 0.00404	0.202	0.176	87	0.177	88	70-135	1	35	mg/kg	06.27.17 20:16		
< 0.00202	0.101	0.0917	91	0.0933	93	71-133	2	35	mg/kg	06.27.17 20:16		
MB %Rec	MB Flag	L0 %1	CS Rec	LCS Flag	LCSI %Ree	) LCS c Fla	D Li g	imits	Units	Analysis Date		
97		9	2		101		80	0-120	%	06.27.17 20:16		
99		10	07		100		80	0-120	%	06.27.17 20:16		
	BTEX by EPA 8021 3020931 726847-1-BLK < <u>MB</u> Result <0.00202 <0.00202 <0.00404 <0.00202 < <u>MB</u> %Rec 97 99	BTEX by EPA 8021B         3020931         726847-1-BLK         MB       Spike         <0.00202	BTEX by EPA 8021B           3020931         I           726847-1-BLK         LCS San           MB         Spike         LCS           <0.00202	BTEX by EPA 8021B         3020931       Katrix:         726847-1-BLK       LCS Sample Id:         MB       Spike       LCS       LCS         <0.00202	BTEX by EPA 8021B         3020931       Katrix: Solid         726847-1-BLK       LCS S=11 Id         MB Result       Spike Amount       LCS       LCS S=11 Id       LCSD Result         <0.00202	BTEX by EPA 8021B         3020931       Matrix:       Solid         726847-1-BLK       LCS Sample Id:       726847-1-BKS         MB       Spike       LCS       LCS       LCS       LCSD       MCSD       LCSD       MCSD       MCSD	BTEX by EPA 8021B         3020931       Matrix:       Solid         726847-1-BLK       LCS Sample Id:       726847-1-BLK         MB Result       Spike Amount       LCS Result       LCS %Rec       LCSD Result       LCSD %Rec       LCSD %Rec       LCSD %Rec       LCSD %Rec       LCSD %Rec       LISD         <0.00202	BTEX by EPA 8021B       PA         3020931       Matrix:       Solid         726847-1-BLK       LCS Sample Id:       726847-1-BLS       LCSS         MB       Spike       LCS       LCS       LCSD       LCSD       LCSD       LCSD       LCSD       LCSD       Matrix       Solid         <0.00202	BTEX by EPA 8021B       Prep Meth         3020931       Matrix:       Solid       Date Pr         726847-1-BLK       LCS Sample Id       726847-1-BLS       LCSD Sample Id       726847-1-BLS       LCSD Sample Id       726847-1-BLS       LCSD Sample Id       1003       1003       1003       1003       1003       1003       1003       1003       1003       100       35                            0.00202       0.101       0.103       102       0.103       103       70-130       0       35          0.00202       0.101       0.0908       96       0.0998       100       71-129       3       35          0.00202       0.101       0.0917       91       0.0933       93       71-133       2       35          0.00202       0.101       0.0917       91       0.0933       93       71-133       2       35          0.00202       0.101       0.0917       91       0.0933       93       71-133       2       35	BTEX by EPA 8021B       Prep Method:       SW4         3020931       Matrix:       Solid       Date Prep:       06.2         726847-1-BLK       LCS Sample Id       726847-1-BKS       LCSD Sample Id       726847-1-BKS       726847-1-BKS       726847-1-BKS       726847-1-BKS       726847-1-BKS       726847-1-BKS       726847-1BKS       726847-1BKS       726847-1BKS	BTEX by EPA 8021B       Prep Method:       SW5030B         3020931       Matrix:       Solid       Date Prep: $06.27.17$ 726847-1-BLK       LCS Surple L: $726847-1$ -BLS       LCS Surple L: $726847-1$ -BSD         MB Spike Manuat       LCS Mesult $726847-1$ -BCSD       LICS Marphe Method       Malysis Date $< 0.00202$ $0.101$ $0.003$ $100$ $35$ mg/kg $06.27.17 20:16$ $< 0.00202$ $0.101$ $0.098$ $100$ $70-130$ $10$ $Mg/kg$ $06.27.17 20:16$ $< 0.00202$ $0.101$ $0.098$ $90$ $70-130$ $10$ $Mg/kg$ $06.27.17 20:16$ $< 0.00202$ $0.101$ $0.098$ $90$ $90$ $90$ $90$ $90$ $90$ $90$ <th colsp<="" td=""></th>	



# **TRC Solutions, Inc**

<b>Analytical Method:</b>	BTEX by EPA 802	1B						Pı	ep Meth	od: SW:	5030B	
Seq Number:	3020931		]	Matrix:	Soil				Date Pr	ep: 06.2	7.17	
Parent Sample Id:	556209-001		MS San	ple Id:	556209-00	01 S		MS	D Sample	e Id: 5562	209-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0814	81	0.0750	74	70-130	8	35	mg/kg	06.27.17 20:48	
Toluene	< 0.00200	0.100	0.0665	67	0.0653	65	70-130	2	35	mg/kg	06.27.17 20:48	Х
Ethylbenzene	< 0.00200	0.100	0.0708	71	0.0610	60	71-129	15	35	mg/kg	06.27.17 20:48	Х
m,p-Xylenes	< 0.00400	0.200	0.117	59	0.105	52	70-135	11	35	mg/kg	06.27.17 20:48	Х
o-Xylene	< 0.00200	0.100	0.0656	66	0.0628	62	71-133	4	35	mg/kg	06.27.17 20:48	Х
Surrogate			N %1	IS Rec	MS Flag	MSD %Re	o MSE c Flag	) Li ç	mits	Units	Analysis Date	
1,4-Difluorobenzene			9	0		116		80	-120	%	06.27.17 20:48	
4-Bromofluorobenzene			9	1		117		80	-120	%	06.27.17 20:48	

	Relinquish	Relinquish	Bill to Ro	Special I									LAB # (lab use only)	ORDER	(lab use							The Env
	ed by: Da	Michle Luen les	se Slade at Energy Transfer.	nstructions:						Containment NWa @ 2'	Containment EWa @ 2'	WSW-1a @ 2'	FIELD CODE		V L C C L V	Sampler Signature: 1 Mulu	Telephone No: 432.520.7720	City/State/Zip: Midland, Texas 797	Company Address: 2057 Commerce Dri	Company Name TRC Environmental	Project Manager: Nikki Green	ICO LADORATORIES
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### **XENCO** Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: TRC Solutions, Inc Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 06/23/2017 03:53:00 PM Temperature Measuring device used : R8 Work Order #: 556210 Comments Sample Receipt Checklist 2.4 #1 \*Temperature of cooler(s)? #2 \*Shipping container in good condition? Yes #3 \*Samples received on ice? Yes #4 \*Custody Seal present on shipping container/ cooler? N/A #5 \*Custody Seals intact on shipping container/ cooler? N/A #6 Custody Seals intact on sample bottles? N/A #7 \*Custody Seals Signed and dated? N/A #8 \*Chain of Custody present? Yes #9 Sample instructions complete on Chain of Custody? Yes #10 Any missing/extra samples? No #11 Chain of Custody signed when relinguished/ received? Yes #12 Chain of Custody agrees with sample label(s)? Yes #13 Container label(s) legible and intact? Yes #14 Sample matrix/ properties agree with Chain of Custody? Yes #15 Samples in proper container/ bottle? Yes #16 Samples properly preserved? Yes #17 Sample container(s) intact? Yes #18 Sufficient sample amount for indicated test(s)? Yes #19 All samples received within hold time? Yes #20 Subcontract of sample(s)? N/A #21 VOC samples have zero headspace? N/A

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

Analyst:

PH Device/Lot#:

Date: 06/23/2017

Checklist completed by: Jessica Kramer Checklist reviewed by: Kelsey Brooks

Date: 06/26/2017



Figure 1. View of surface staining from the initial release, facing west.





Figure 2. View of surface staining from the initial release, facing southwest.





Figure 3. View of the affected area after remediation activities, facing northeast.





Figure 4. View of portion of the affected area, after remediation activities, during an unrelated remediation event, facing southwest.





Figure. 5. View of the affected area after remediation activities, facing southwest.





Figure 6. View of affected area on the northern portion of the containment after remediation activities, facing northwest.

	P.O. Box 1737 Eunice, N (575) 394-;	RVICES, Inc lew Mexico 88231 2511	C. TICKET No.	251003
LEASE OPERATO	R/SHIPPER/COMPANY:	SUG		
LÉASE NAME:	R-14 C	Shie Ove	V Slow See	
TRANSPORTER C	OMPANY: Apo	NO TRY		
DATE: (1/25)	クの3 VEHICLE NO:	<u>cs</u> te	GENERATOR COMPANY MAN'S NAME:	Little
CHARGE TO:	SUG		RIG NAME AND NUMBER	
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ALSO AS A TICKET, OFT MATERIAL E TO TIME, 40 THERETO, B' ASSOCIATEL GEOTHERM/ ALSO AS A TICKET. TR OPERATOR/S FACILITY FO	RATOR/SHIPPER REPRESEN XEMPT FROM THE RESOURC U.S.C. § 6901, et seq., THE N Y VIRTUE OF THE EXEMPTIC O WITH THE EXPLORATION, AL ENERGY. CONDITION TO SUNDANCE ANSPORTER REPRESENTS SHIPPER TO TRANSPORTER R DISPOSAL.	ERVICES, INC.S ACCEPTA ITS AND WARRANTS TH, CE, CONSERVATION AND F NM HEALTH AND SAF. COL DN AFFORDED DRILLING , DEVELOPMENT OR PRC E SERVICES, INC.'S ACCEPT S AND WARRANTS TI S IS NOW DELIVERED BY	NCE OF THE MATERIALS SHI AT THE WASTE MATERIAL SH RECOVERY ACT OF 1976, AS A DE § 361.001 et seq., AND RE FLUIDS, PRODUCED WATERS DOUCTION OF CRUDE OIL O FANCE OF THE MATERIALS SH HAT ONLY THE MATERIA TRANSPORTER TO SUNDAI	PPED WITH THIS JOB HIPPED HEREWITH IS MENDED FROM TIME GULATIONS RELATED AND OTHER WASTE R NATURAL GAS OR IPPED WITH THIS JOB AL DELIVERED BY NCE SERVICES, INC.'S
MATERIAL E TO TIME, 40 THERETO, B' ASSOCIATEL GEOTHERM, ALSO AS A TICKET. TR OPERATOR/S FACILITY FO THIS WILL above descri materials we	CONDITION TO SUNDANCE SE RATOR/SHIPPER REPRESEN XEMPT FROM THE RESOURC U.S.C. § 6901, et seq., THE N Y VIRTUE OF THE EXEMPTIC O WITH THE EXPLORATION, AL ENERGY. CONDITION TO SUNDANCE ANSPORTER REPRESENTS SHIPPER TO TRANSPORTER R DISPOSAL. CERTIFY that the above Tra bed location, and that it was re added to this load, and th	AND WARRANTS TH CE, CONSERVATION AND F NM HEALTH AND SAF. COL DN AFFORDED DRILLING , DEVELOPMENT OR PRC E SERVICES, INC'S ACCEPT AND WARRANTS TH IS NOW DELIVERED BY ANSPORTER loaded the mate is tendered by the above a bat the material was delive	NCE OF THE MATERIALS SHI AT THE WASTE MATERIAL SH RECOVERY ACT OF 1976, AS A DE § 361.001 et seq., AND RE FLUIDS, PRODUCED WATERS DOUCTION OF CRUDE OIL O TANCE OF THE MATERIALS SH HAT ONLY THE MATERIALS SH HAT ONLY THE MATERIAL TRANSPORTER TO SUNDAN rial represented by this Transp lescribed shipper. This will cert red without incident.	PPED WITH THIS JOB HIPPED HEREWITH IS MENDED FROM TIME GULATIONS RELATED AND OTHER WASTE R NATURAL GAS OR IPPED WITH THIS JOB AL DELIVERED BY NCE SERVICES, INC.'S Orter Statement at the tify that no additional
MATERIAL E TO TIME, 40 THERETO, B' ASSOCIATEL GEOTHERM, ALSO AS A TICKET. TR OPERATOR! FACILITY FO THIS WILL above descri materials we DRIVER:	EPRESENTATIVE:	AND WARRANTS TH SECONSERVATION AND F NM HEALTH AND SAF. COL DN AFFORDED DRILLING , DEVELOPMENT OR PRC E SERVICES, INC'S ACCEPT AND WARRANTS TH R IS NOW DELIVERED BY AND WELIVERED BY AND WARRANTS TH R IS NOW DELIVERED BY AND WARRANTS TH AND WARRANTS	NCE OF THE MATERIALS SHI AT THE WASTE MATERIAL SH RECOVERY ACT OF 1976, AS A DE § 361.001 et seq., AND RE FLUIDS, PRODUCED WATERS DOUCTION OF CRUDE OIL O TANCE OF THE MATERIALS SH HAT ONLY THE MATERIALS SH HAT ONLY THE MATERIA TRANSPORTER TO SUNDAT rial represented by this Transp lescribed shipper. This will cert red without incident.	PPED WITH THIS JOB HIPPED HEREWITH IS MENDED FROM TIME GULATIONS RELATED AND OTHER WASTE R NATURAL GAS OR IPPED WITH THIS JOB AL DELIVERED BY NCE SERVICES, INC.'S NCE SERVICES, INC.'S

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_ <b>₩SU</b>	P.O. Box 1737 Eunice, Nev (575) 394-25	VICES, Inc. w Mexico 88231	TICKET No. 250999
LEASE OPERATO	DR/SHIPPER/COMPANY:	SUG	
LEASE NAME:	A 14 51	us Overflow	
TRANSPORTER	COMPANY:	. McCrackey	TIME & 36 AM
DATE: 25	2012 VEHICLE NO:	GENE	MAN'S NAME:
CHARGE TO:	SUG	RI A!	G NAME ND NUMBER
		TYPE OF MATERIAL	
	[] Production Water	[ ] Drilling Fluids	[] Rinsate
	[] Tank Bottoms	`I. / Contaminated Soil	[] Jet Out
	[] Solids	[] BS&W Content:	[] Call Out
Deenvi		1rs	
Descri			C-133#
			C 1000
AS A C	ATERIAL []BBLS	RVICES, INC.'S ACCEPTANCE OF TH	I E MATERIALS SHIPPED WITH THIS JOE ASTE MATERIAL SHIPPED HEREWITH IS
VOLUME OF M AS A C TICKET, O MATERIAL TO TIME, 4 THERETO, ASSOCIAT GEOTHER	ATERIAL [] BBLS CONDITION TO SUNDANCE SE PERATOR/SHIPPER REPRESEN EXEMPT FROM THE RESOURC 40 U.S.C. § 6901, et seq., THE N BY VIRTUE OF THE EXEMPTIO TED WITH THE EXPLORATION, MAL ENERGY.	RVICES, INC.'S ACCEPTANCE OF TH TS AND WARRANTS THAT THE WA E, CONSERVATION AND RECOVERY M HEALTH AND SAF. CODE § 361.0 N AFFORDED DRILLING FLUIDS, PI DEVELOPMENT OR PRODUCTION	E MATERIALS SHIPPED WITH THIS JOE ASTE MATERIAL SHIPPED HEREWITH IS ACT OF 1976, AS AMENDED FROM TIME 01 et seq., AND REGULATIONS RELATED RODUCED WATERS, AND OTHER WASTH OF CRUDE OIL OR NATURAL GAS OF
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P.O. Box 1737 Eunice, New Me (575) 394-2511	ICES, Inc. xico 88231	TICKET No.	250827
LEASE OPERATOR/SHIPPER/COMPANY:	SUG		
LEASE NAME: A. 14 Stills	a Drerflor	<u>()</u>	
TRANSPORTER COMPANY: A DOILL	STruck	TIM	<u>E//:3*/(AN</u>
DATE: / - 71/- 13 VEHICLE'NO: 0	5 GENE	MAN'S NAME:	16p L.H
CHARGE TO: 516 (5)	RI A	G NAME ND NUMBER	
<u> </u>			
	TYPE OF MATERIAL		
[ ] Production Water	[] Drilling Fluids		
[ ] Tank Bottoms	Contaminated Soll		
[ ] Solids	[ ] BS&W Content:		
Description:			
RRC or API #		C-133#	
	: XI YARD	12:	[]
AS A CONDITION TO SUNDANCE SERVIC TICKET, OPERATOR/SHIPPER REPRESENTS A	CES, INC'S ACCEPTANCE OF TH AND WARRANTS THAT THE WA	HE MATERIALS SHIPPE ASTE MATERIAL SHIP ACT OF 1976, AS AME	D WITH THIS JO PED HEREWITH I NDED FROM TIM
AS A CONDITION TO SUNDANCE SERVIC TICKET, OPERATOR/SHIPPER REPRESENTS A MATERIAL EXEMPT FROM THE RESOURCE, CO TO TIME, 40 U.S.C. § 6901, et seq., THE NM H THERETO, BY VIRTUE OF THE EXEMPTION A ASSOCIATED WITH THE EXPLORATION, DEV GEOTHERMAL ENERGY.	CES, INC.'S ACCEPTANCE OF TH AND WARRANTS THAT THE WA ONSERVATION AND RECOVERY IEALTH AND SAF. CODE § 361.0 FFORDED DRILLING FLUIDS, P VELOPMENT OR PRODUCTION	HE MATERIALS SHIPPE ASTE MATERIAL SHIP ACT OF 1976, AS AME 101 et seq., AND REGU RODUCED WATERS, A N OF CRUDE OIL OR THE MATERIALS SHIPP	ED WITH THIS JO PED HEREWITH I ENDED FROM TIM LATIONS RELATE ND OTHER WAST NATURAL GAS C PED WITH THIS JC DELIVERED
AS A CONDITION TO SUNDANCE SERVIC TICKET, OPERATOR/SHIPPER REPRESENTS A MATERIAL EXEMPT FROM THE RESOURCE, CO TO TIME, 40 U.S.C. § 6901, et seq., THE NM H THERETO, BY VIRTUE OF THE EXEMPTION A ASSOCIATED WITH THE EXPLORATION, DEV GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SER TICKET. TRANSPORTER REPRESENTS A OPERATOR/SHIPPER TO TRANSPORTER IS FACILITY FOR DISPOSAL. <b>THIS WILL CERTIFY</b> that the above Transp above described location, and that it was ter metarials were added to this load, and that t	CES, INC'S ACCEPTANCE OF TH AND WARRANTS THAT THE WA ONSERVATION AND RECOVERY IEALTH AND SAF. CODE § 361.0 FFORDED DRILLING FLUIDS, P VELOPMENT OR PRODUCTION RVICES, INC'S ACCEPTANCE OF ND WARRANTS THAT ON NOW DELIVERED BY TRANSP orter loaded the material repress indered by the above described schemeters and the material was delivered witho	HE MATERIALS SHIPPE ASTE MATERIAL SHIPP ACT OF 1976, AS AME 001 et seq., AND REGU RODUCED WATERS, A N OF CRUDE OIL OR THE MATERIALS SHIPP LY THE MATERIAL ORTER TO SUNDANC ented by this Transport shipper. This will certify ut incident.	ED WITH THIS JO PED HEREWITH I INDED FROM TIM LATIONS RELATE ND OTHER WAST NATURAL GAS C DELIVERED E E SERVICES, INC ter Statement at to that no addition
AS A CONDITION TO SUNDANCE SERVIC TICKET, OPERATOR/SHIPPER REPRESENTS A MATERIAL EXEMPT FROM THE RESOURCE, CO TO TIME, 40 U.S.C. § 6901, et seq., THE NM H THERETO, BY VIRTUE OF THE EXEMPTION A ASSOCIATED WITH THE EXPLORATION, DEV GEOTHERMAL ENERGY. 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 Transp above described location, and that it was ter materials were added to this load, and that the DRIVER: (SIGNATURE) FACILITY REPRESENTATIVE:	CES, INC'S ACCEPTANCE OF TH AND WARRANTS THAT THE WA ONSERVATION AND RECOVERY HEALTH AND SAF. CODE § 361.0 FFORDED DRILLING FLUIDS, P VELOPMENT OR PRODUCTION RVICES, INC'S ACCEPTANCE OF AND WARRANTS THAT ON NOW DELIVERED BY TRANSPO ONTER loaded the material represent of the rest of the above described of the material was delivered witho	HE MATERIALS SHIPPE ASTE MATERIAL SHIPP ACT OF 1976, AS AME 001 et seq., AND REGU RODUCED WATERS, A I OF CRUDE OIL OR THE MATERIALS SHIPP LY THE MATERIAL ORTER TO SUNDANC ented by this Transport shipper. This will certify ut incident.	ED WITH THIS JO PED HEREWITH I INDED FROM TIM LATIONS RELATE ND OTHER WAST NATURAL GAS C DELIVERED E E SERVICES, INC ter Statement at to that no addition

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P.O. Box 1737 Eunice, New Mexico 88: (575) 394-2511	<b>S, Inc.</b> TICKET No. 250819
EASE OPERATOR/SHIPPER/COMPANY: SUC EASE NAME: $\beta - 14$ SUG TRANSPORTER COMPANY: Family OF	Hield Servin TIME//:22(AM)PN
Charge to: $5UG$	RIG NAME AND NUMBER
TYPE [] Production Water [ [] Tank Bottoms ] [] Solids [ ]	OF MATERIAL ] Drilling Fluids [] Rinsate ] Contaminated Soil [] Jet Out ] BS&W Content: [] Call Out
Description:	C-133#
AS A CONDITION TO SUNDANCE SERVICES, IN TICKET, OPERATOR/SHIPPER REPRESENTS AND W MATERIAL EXEMPT FROM THE RESOURCE, CONSER TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH THERETO, BY VIRTUE OF THE EXEMPTION AFFORE ASSOCIATED WITH THE EXPLORATION, DEVELOP GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES TICKET. TRANSPORTER REPRESENTS AND OPERATOR/SHIPPER TO TRANSPORTER IS NOW FACILITY FOR DISPOSAL.	IC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB /ARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS RVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME 1 AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED DED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE MENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR S, 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
THIS WILL CERTIFY that the above Transporter la	oaded the material represented by this Transporter Statement at the I by the above described shipper. This will certify that no additional
materials were added to this load, and that the ma	terial was delivered without incluent.
DRIVER: <u>Portirio</u> Poice ( (signature) FACILITY REPRESENTATIVE:	Sta Cuz

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SUI SUI	P.O. Box 1737 Eunice, New Mer (575) 394-2511	<b>CES, Inc.</b> xico 88231	TICKET No. 250	826
LEASE OPERATOR	/SHIPPER/COMPANY: コーバイ Stica	SUG Overfl.on	<u>}</u>	m d d
TRANSPORTER CO	омрану: <u>Дре //с</u> -/3 Vehicle no: <u>г</u>	Trucking Generat	OR COMPANY MAN'S NAME:	54 AM/
CHARGE TO:	SUG	RIG N AND	AME NUMBER	<i>.</i>
	T	YPE OF MATERIAL		
	[ ] Production Water [ ] Tank Bottoms [ ] Solids	[ ] Drilling Fluids N] Contaminated Soil [ ] BS&W Content:	[ ] Rinsate [ ] Jet Out [ ] Call Out	
Descript	ion:		C-133#	
AS A CC TICKET, OP MATERIAL E	Image: Second State Sta	ES, INC'S ACCEPTANCE OF THE ND WARRANTS THAT THE WAST DNSERVATION AND RECOVERY AC EAITH AND SAE CODE 5 361.001	MATERIALS SHIPPED WITH TE MATERIAL SHIPPED HEF TT OF 1976, AS AMENDED FI et seg., AND REGULATIONS	THIS JOB REWITH IS ROM TIME 5 RELATED
ALSO AS TICKET. TI OPERATOR FACILITY FO	Y VIRTUE OF THE EXEMPTION AND D WITH THE EXPLORATION, DEV AL ENERGY. A CONDITION TO SUNDANCE SER RANSPORTER REPRESENTS A SHIPPER TO TRANSPORTER IS IN OR DISPOSAL.	FFORDED DRILLING FLUIDS, PRO /ELOPMENT OR PRODUCTION C /VICES, INC.'S ACCEPTANCE OF TH ND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPOR	DUCED WATERS, AND OTH F CRUDE OIL OR NATURA E MATERIALS SHIPPED WITH THE MATERIAL DELIV TER TO SUNDANCE SERVIO	ER WASTE L GAS OR HTHISJOB ERED BY CES, INC.'S
THIS WILL above desc materials w DRIVER:_	CERTIFY that the above Transpo ribed location, and that it was ten rere added to this load, and that th	orter loaded the material represent idered by the above described ship the material was delivered without Menchae Stable	ted by this Transporter Stater oper. This will certify that no incident.	nent at the additional
FACILITY	REPRESENTATIVE:	e fill and the		

	P.O. Box 1737 Eunice, New M (575) 394-2511	ICES, Inc. exico 88231	TICKET No. 2508	24
LEASE OPERATOR	SHIPPER/COMPANY: 5/	16		
LEASE NAME:	4-14 S/110	Overflee	J	
TRANSPORTER CO	MPANY: MT. P. MT	e Crocken?	# 207 TIME //:3	2 @M/F
DATE: 6-24		2017 GENERA	TOR COMPANY MAN'S NAME: MAILION	171
CHARGE TO:	SUG	RIG I AND	VAME NUMBER	
		TYPE OF MATERIAL		
	[] Production Water	[ ] .Drilling Fluids	[ ] Rinsate	
	[ ] Tank Bottoms	Contaminated Soil	[] Jet Out	
	[] Solids	[] BS&W Content:	[] Call Out	
Descripti	on: O	1P		
RRC or API #			C-133#	
			۰ <u>۲</u>	
AS A CON TICKET, OPE MATERIAL EX TO TIME, 40 0 THERETO, BY ASSOCIATED GEOTHERMA	DITION TO SUNDANCE SERVIC ATOR/SHIPPER REPRESENTS A EMPT FROM THE RESOURCE, CO J.S.C. § 6901, et seq., THE NM H VIRTUE OF THE EXEMPTION A WITH THE EXPLORATION, DEV L ENERGY.	LES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT THE WAS DNSERVATION AND RECOVERY AC EALTH AND SAF. CODE § 361.001 FFORDED DRILLING FLUIDS, PRO /ELOPMENT OR PRODUCTION C	MATERIALS SHIPPED WITH TH TE MATERIAL SHIPPED HEREW T OF 1976, AS AMENDED FROM et seq., AND REGULATIONS RE DUCED WATERS, AND OTHER V F CRUDE OIL OR NATURAL G	is Job Vith Is A time Lated Waste As Or
ALSO AS A TICKET. TRA OPERATOR/S FACILITY FOI	CONDITION TO SUNDANCE SER INSPORTER REPRESENTS A HIPPER TO TRANSPORTER IS I I DISPOSAL.	VICES, INC'S ACCEPTANCE OF TH ND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPOR	E MATERIALS SHIPPED WITH TH THE MATERIAL DELIVERE FER TO SUNDANCE SERVICES,	IIS JOB D BY INC.'S
<b>THIS WILL</b> above descrit materials we	<b>ERTIFY</b> that the above Transported location, and that it was ten e added to this load, and that the the second of	orter loaded the material represent dered by the above described ship e material was delivered without i	ed by this Transporter Statemen per. This will certify that no add ncident.	t at the litional

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P.O. Box 1737 Eunice, New Mex (575) 394-2511	ICES, Inc.	TICKET No.	250820
LEASE OPERATOR/SHIPPER/COMPANY: S LEASE NAME: A-14 5/213 TRANSPORTER COMPANY: ATENA 22 DATE: 6-24/-73 VEHICLE NO: 2	Diorflou Diorflou a Transp. 02	TIME	11:25 AM
CHARGETO: <u>SUG</u>	RIG	NAME NUMBER	
Т	YPE OF MATERIAL		
[ ] Production Water [ ] Tank Bottoms [ ] Solids	<ul> <li>[ ] Drilling Fluids</li> <li>[ ] Contaminated Soil</li> <li>[ ] BS&amp;W Content:</li> </ul>	[ ] Rinsate [ ] Jet Out [ ] Call Out	
PPC or API #		C-133#	
	: KI YARD_/.	2;	[]
AS A CONDITION TO SUNDANCE SERVIC TICKET, OPERATOR/SHIPPER REPRESENTS A MATERIAL EXEMPT FROM THE RESOURCE, CO TO TIME, 40 U.S.C. § 6901, et seq., THE NM HE THERETO, BY VIRTUE OF THE EXEMPTION AF ASSOCIATED WITH THE EXPLORATION, DEV GEOTHERMAL ENERGY.	ES, INC'S ACCEPTANCE OF THE ND WARRANTS THAT THE WAS DNSERVATION AND RECOVERY A EALTH AND SAF. CODE § 361.00 FORDED DRILLING FLUIDS, PRO YELOPMENT OR PRODUCTION (	MATERIALS SHIPPED TE MATERIAL SHIPPED CT OF 1976, AS AMEN I et seq., AND REGUL DOUCED WATERS, AN OF CRUDE OIL OR NA	D WITH THIS JOE ED HEREWITH IS IDED FROM TIME ATIONS RELATED D OTHER WASTE ATURAL GAS OF
ALSO AS A CONDITION TO SUNDANCE SEA TICKET. TRANSPORTER REPRESENTS AN OPERATOR/SHIPPER TO TRANSPORTER IS N FACILITY FOR DISPOSAL.	ND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPOR	THE MATERIAL THE MATERIAL TTER TO SUNDANCE	DELIVERED B' SERVICES, INC.
<b>THIS WILL CERTIFY</b> that the above Transpo above described location, and that it was tend materials were added to this load, and that the	orter loaded the material represen dered by the above described shi he material was delivered without	ted by this Transporter pper. This will certify t incident.	r Statement at th hat no additiond
DRIVER:	. Klenchorg ). Sta C	20	
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P.O. Box 1737 Eunice, Nev (575) 394-25	WICES, Inc. w Mexico 88231	TICKET No. 250822
LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAME: A-14 51L TRANSPORTER COMPANY: A 217 DATE: 6-21-13 VEHICLE NO:	SUG 19 Dierfl. 19 min. 17 geographics	SIL
CHARGE TO: SUG		RIG NAME AND NUMBER
	TYPE OF MATERIAL	2
[ ] Production Water [ ] Tank Bottoms [ ] Solids Description:	I Drilling Fluids     Ontaminated Soil     I BS&W Content:	[ ] Rinsate [ ] Jet Out [ ] Call Out
RRC or API #		C.122#
VOLUME OF MATERIAL []BBLS	: NI YARD	· []:
AS A CONDITION TO SUNDANCE SERV TICKET, OPERATOR/SHIPPER REPRESENTS MATERIAL EXEMPT FROM THE RESOURCE. (	ICES, INC.'S ACCEPTANCE OF TH AND WARRANTS THAT THE WA	IE MATERIALS SHIPPED WITH THIS JOB SSTE MATERIAL SHIPPED HEREWITH IS
TO TIME, 40 U.S.C. § 6901, et seq., THE NM I THERETO, BY VIRTUE OF THE EXEMPTION / ASSOCIATED WITH THE EXPLORATION, DE GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SEI TICKET. TRANSPORTER REPRESENTS A OPERATOR/SHIPPER TO TRANSPORTER IS FACILITY FOR DISPOSAL.	HEALTH AND SAF. CODE § 361.0 AFFORDED DRILLING FLUIDS, PF EVELOPMENT OR PRODUCTION RVICES, INC'S ACCEPTANCE OF T IND WARRANTS THAT ONL NOW DELIVERED BY TRANSPO	ACT OF 1976, AS AMENDED FROM TIME D1 et seq., AND REGULATIONS RELATED RODUCED WATERS, AND OTHER WASTE OF CRUDE OIL OR NATURAL GAS OR HE MATERIALS SHIPPED WITH THIS JOB Y THE MATERIAL DELIVERED BY RTER TO SUNDANCE SERVICES, INC.'S
TO TIME, 40 U.S.C. § 6901, et seq., THE NM I THERETO, BY VIRTUE OF THE EXEMPTION A ASSOCIATED WITH THE EXPLORATION, DE GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SEI 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	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 TRANSPO Porter loaded the material represent adered by the above described show the material was delivered without	ACT OF 1976, AS AMENDED FROM TIME D1 et seq., AND REGULATIONS RELATED RODUCED WATERS, AND OTHER WASTE OF CRUDE OIL OR NATURAL GAS OR HE MATERIALS SHIPPED WITH THIS JOB Y THE MATERIAL DELIVERED BY RTER TO SUNDANCE SERVICES, INC.'S Inted by this Transporter Statement at the Ipper. This will certify that no additional incident.
TO TIME, 40 U.S.C. § 6901, et seq., THE NM I THERETO, BY VIRTUE OF THE EXEMPTION A ASSOCIATED WITH THE EXPLORATION, DE GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SEI 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:	HEALTH AND SAF. CODE § 361.0 AFFORDED DRILLING FLUIDS, PF EVELOPMENT OR PRODUCTION RVICES, INC.'S ACCEPTANCE OF T NND WARRANTS THAT ONL NOW DELIVERED BY TRANSPO Porter loaded the material represer Indered by the above described sh the material was delivered without	ACT OF 1976, AS AMENDED FROM TIME D1 et seq., AND REGULATIONS RELATED RODUCED WATERS, AND OTHER WASTE OF CRUDE OIL OR NATURAL GAS OR HE MATERIALS SHIPPED WITH THIS JOB Y THE MATERIAL DELIVERED BY RTER TO SUNDANCE SERVICES, INC.'S Inted by this Transporter Statement at the pper. This will certify that no additional incident.

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	P.O. Box 1737 Eunice, New (575) 394-251	VICES, Inc. Mexico 88231	TICKET No. 250825
EASE OPERATOR	/SHIPPER/COMPANY:	5/16	минана на конструкции и на конструкции на к
EASE NAME:	4-14 511	· DUDI-FINI	y)
RANSPORTER CO	DMPANY: SUD	1ds Truck	TIME // ; 7 3 AN
DATE: / - 2	1-13 VEHICLE NO:	760 GENE	ERATOR COMPANY MAN'S NAME: PLATICIA C
HARGE TO:	SUG	R	IG NAME ND NUMBER
			· · · · · · · · · · · · · · · · · · ·
	[] Production Water		[] Dincato
	Tank Bottoms	Contaminated Soil	
		[] BS&W Content:	[] Call Out
	t s sonas	NIN	
Descript	on:C	~11	
RC or API #			C-133#
VOLUME OF MAT	ERIAL []BBLS	: XI ] YARD_/	2 : []
TICKET, OPE MATERIAL EX TO TIME, 40 I THERETO, BY ASSOCIATED GEOTHERMA ALSO AS A TICKET. TR/ OPERATOR/S FACILITY FOI	RATOR/SHIPPER REPRESENTS (EMPT FROM THE RESOURCE, C J.S.C. § 6901, et seq., THE NM VIRTUE OF THE EXEMPTION / WITH THE EXPLORATION, DE LENERGY. CONDITION TO SUNDANCE SE NSPORTER REPRESENTS / HIPPER TO TRANSPORTER IS DISPOSAL.	AND WARRANTS THAT THE WA CONSERVATION AND RECOVERY, HEALTH AND SAF, CODE § 361.00 AFFORDED DRILLING FLUIDS, PR VELOPMENT OR PRODUCTION RVICES, INC.'S ACCEPTANCE OF T AND WARRANTS THAT ONL NOW DELIVERED BY TRANSPO	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 RTER TO SUNDANCE SERVICES, INC.
<b>THIS WILL</b> above descrit materials we	<b>CERTIFY</b> that the above Transport of location, and that it was ten re added to this load, and that t	orter loaded the material represen ndered by the above described sh he material was delivered withou	nted by this Transporter Statement at the nipper. This will certify that no additiona t incident.

<u></u>	P.O. Box 1737 Eunice, I (575) 394	RVICES, Inc New Mexico 88231 -2511	• TICKET No.	250875
LEASE OPERA LEASE NAME: TRANSPORTE DATE: (6 - 2	TOR/SHIPPER/COMPANY: H-14 Stug R COMPANY: Hpc U-13 VEHICLE NO:	SLIG Overfloo Nic Truc 06	KINT TI GENERATOR COMPANY	MEZIC AMR
CHARGE TO:	SUG		RIG NAME AND NUMBER	- M. M. M. A. J.
Descri	[ ] Production Water [ ] Tank Bottoms [ ] Solids ption:	TYPE OF MATERI	AL s [] Rinsate d Soil [] Jet Out nt: [] Call Ou	t
RRC or API #			C-133#	
VOLUME OF M	ATERIAL []BBLS	: Ň YA	rd_/2:	[]
AS A CO TICKET, OF MATERIAL TO TIME, 40 THERETO, 1 ASSOCIATE GEOTHERM ALSO AS / TICKET. TF OPERATOR/ FACILITY FC	ONDITION TO SUNDANCE SEP PERATOR/SHIPPER REPRESENT EXEMPT FROM THE RESOURCE OU.S.C. § 6901, et seq., THE NA BY VIRTUE OF THE EXEMPTION ID WITH THE EXPLORATION, I IAL ENERGY. A CONDITION TO SUNDANCE S RANSPORTER REPRESENTS SHIPPER TO TRANSPORTER IS OR DISPOSAL.	RVICES, INC.'S ACCEPTANCE IS AND WARRANTS THAT T CONSERVATION AND REC M HEALTH AND SAF. CODE & A AFFORDED DRILLING FLU DEVELOPMENT OR PRODU SERVICES, INC.'S ACCEPTANC AND WARRANTS THAT S NOW DELIVERED BY TR/	OF THE MATERIALS SHIPPE HE WASTE MATERIAL SHIPP DVERY ACT OF 1976, AS AME 361.001 et seq., AND REGUL IDS, PRODUCED WATERS, AN CTION OF CRUDE OIL OR N CTION OF CRUDE OIL OR N CTION OF THE MATERIALS SHIPPE ONLY THE MATERIAL ANSPORTER TO SUNDANCE	D WITH THIS JOB YED HEREWITH IS NDED FROM TIME ATIONS RELATED ND OTHER WASTE ATURAL GAS OR ED WITH THIS JOB DELIVERED BY SERVICES, INC.'S
<b>THIS WILL</b> above descri materials we	<b>CERTIFY</b> that the above Trans ibed location, and that it was to added to this load, and that	porter loaded the material re endered by the above descri the material was delivered w	epresented by this Transporter bed shipper. This will certify th vithout incident.	Statement at the nat no additional
DRIVER:	) OL GC /	Mencha	67	

	P.O. Box 1737 Eunice, (575) 394	RVICES, II	1C.	TICKET No.	250873
LEASE OPERATOR	SHIPPER/COMPANY:	$\leq 116$			
LEASE NAME:	A-14 5	Turo Tab	111		
TRANSPORTER CO	MPANY: ATTE	· mara	ante		End AN
DATE: 6-24	-13 VEHICLE NO:	207	GENERATOR	COMPANY	11:06 AN
CHARGE TO:	SIN R		BIG NAM	IF	111/2/7
			AND NU	MBER	
		TYPE OF MAT	ERIAL		
	[ ] Production Water	[] Drilling F	luids	[] Rinsate	
	[ ] Tank Bottoms	KI Contami	nated Soil	[] Jet Out	
	[] Solids	[] BS&W Co	intent:	[] Call Out	
Descriptio	on:	010			
RRC or API #					
				C-133#	
AS A CONE TICKET, OPER/ MATERIAL EXE TO TIME, 40 U. THERETO, BY V ASSOCIATED V	DITION TO SUNDANCE SE ATOR/SHIPPER REPRESEN MPT FROM THE RESOURC S.C. § 6901, et seq., THE N IRTUE OF THE EXEMPTIO	RVICES, INC'S ACCEPTA TS AND WARRANTS TH E, CONSERVATION AND M HEALTH AND SAF. CO N AFFORDED DRILLING	NCE OF THE MAT AT THE WASTE N RECOVERY ACT O DE § 361.001 et so FLUIDS, PRODUC	ERIALS SHIPPED IATERIAL SHIPPE 1976, AS AMEN Eq., AND REGULA ED WATERS, ANI	WITH THIS JOB D HEREWITH IS DED FROM TIME ITIONS RELATED D OTHER WASTE
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<b>THIS WILL CE</b> above described materials were d	RTIFY that the above Tran I location, and that it was added to this load, and tha	sporter loaded the mater tendered by the above d t the material was deliver	rial represented by escribed shipper. T red without incider	this Transporter S his will certify the nt.	tatement at the at no additional
مسمد محمد المسمو	Car Mala	Jack			· · · · · · · · · · · · · · · · · · ·

	P.O. Box 1737 Eunice, New M (575) 394-2511	VICES, Inc. Mexico 88231	TICKET No. 250874	(.
LEASE OPERATOR/		ИĠ		
LEASE NAME:	A-14 Sluce	1 Overflo	$\omega$	. <u>.</u>
TRANSPORTER CO	MPANY: 5/07	ORDS	TIME 2:07	M
DATE: 6-20	1-13VEHICLE NO:	760 GENERAT	OR COMPANY C. STALL	le
CHARGE TO:	SUG	RIG N AND	AME NUMBER	
· · ·		TYPE OF MATERIAL		
	[] Production Water	[ ], Drilling Fluids	[] Rinsate	
	[ ] Tank Bottoms	XI Contaminated Soil	[ ] Jet Out	
,	[] Solids	[ ] BS&W Content:	[] Call Out	
Descriptio	on:C	>/D		
RRC or API #			C-133#	
VOI UME OF MATE	RIAL []BBLS.	: KI YARD	: []	
AS A CON TICKET, OPER MATERIAL EXE TO TIME, 40 U THERETO, BY ASSOCIATED GEOTHERMAL ALSO AS A C TICKET. TRA OPERATOR/SE FACILITY FOR	DITION TO SUNDANCE SERVI ATOR/SHIPPER REPRESENTS MPT FROM THE RESOURCE, C S.C. § 6901, et seq., THE NM H VIRTUE OF THE EXEMPTION A WITH THE EXPLORATION, DE ENERGY. CONDITION TO SUNDANCE SEI NSPORTER REPRESENTS A HIPPER TO TRANSPORTER IS DISPOSAL.	CES, INC'S ACCEPTANCE OF THE MAND WARRANTS THAT THE WAST ONSERVATION AND RECOVERY AC HEALTH AND SAF. CODE § 361.001 (FFORDED DRILLING FLUIDS, PROE VELOPMENT OR PRODUCTION OF RVICES, INC'S ACCEPTANCE OF THE AND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPORT	MATERIALS SHIPPED WITH THIS J E MATERIAL SHIPPED HEREWITH T OF 1976, AS AMENDED FROM TH et seq., AND REGULATIONS RELAT DUCED WATERS, AND OTHER WAS F CRUDE OIL OR NATURAL GAS MATERIALS SHIPPED WITH THIS J THE MATERIAL DELIVERED ER TO SUNDANCE SERVICES, INF	OB IS ED TE OR BY C'S
THIS WILL C	<b>ERTIFY</b> that the above Transp ed location, and that it was ter e added to this load, and that th	orter loaded the material represente ndered by the above described shipp he material was delivered without in	d by this Transporter Statement at per. This will certify that no additio cident.	the nal

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P.O. Box 1737 Eunice (575) 35	e, New Mexico 88231 94-2511	TICKET No. 251062
LEASE OPERATOR/SHIPPER/COMPANY:	SUG SILS OVERTO	
TRANSPORTER COMPANY: <u>M</u> DATE: <u>175/201</u> 2VEHICLE NO	<u>R McCrackell</u> <u>Generation</u>	ATOR COMPANY P
CHARGETO:	Rice AN	NAME D NUMBER
	TYPE OF MATERIAL	
[ ] Production Wat	ter [] Drilling Fluids	[] Rinsate
[ ] Tank Bottoms	Contaminated Soil	[ ] Jet Out
[] Solids	[ ] BS&W Content:	[ ] Call Out
Description:	N/A	
RRC or API #		C-133#
	: UTYARD	17: []
TICKET, OPERATOR/SHIPPER REPRE MATERIAL EXEMPT FROM THE RESO TO TIME, 40 U.S.C. § 6901, et seq., Th	ESENTS AND WARRANTS THAT THE WA URCE, CONSERVATION AND RECOVERY / HE NM HEALTH AND SAF. CODE § 361.00 PTION AFFORDED DRILLING FLUIDS, PR ION, DEVELOPMENT OR PRODUCTION	STE MATERIAL SHIPPED HEREWITH I ACT OF 1976, AS AMENDED FROM TIM 01 et seq., AND REGULATIONS RELATE ODUCED WATERS, AND OTHER WAST OF CRUDE OIL OR NATURAL GAS O
ASSOCIATED WITH THE EXPLORATI GEOTHERMAL ENERGY.		
ALSO AS A CONDITION TO SUNDA TICKET. TRANSPORTER REPRESE OPERATOR/SHIPPER TO TRANSPOR FACILITY FOR DISPOSAL.	ANCE SERVICES, INC:'S ACCEPTANCE OF T ENTS AND WARRANTS THAT ONL RTER IS NOW DELIVERED BY TRANSPO	HE MATERIALS SHIPPED WITH THIS JO Y THE MATERIAL DELIVERED B RTER TO SUNDANCE SERVICES, INC.
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	ANCE SER 20. Box 1737 Eunice, New (575) 394-251	VICES, Inc. Mexico 88231	TICKET No.	250872
LEASE OPERATOR/SHIPP LEASE NAME: // TRANSPORTER COMPAN DATE: 6-211-7	PER/COMPANY: 9-1451 NY: Family Svehicle no:	SIIG Lug DV.e, is Dilfield F-2	GENERATOR COMPANY	ME2:057AM
CHARGE TO:	SUG		RIG NAME AND NUMBER	
		TYPE OF MATERIAL		
[] [] [] Description:	Production Water Tank Bottoms Solids	[ ] Drilling Fluids K] Contaminated S [ ] BS&W Content:	[ ] Rinsate oil [ ] Jet Out [ ] Call Ou	t
RC or API #			C-133#	
VOLUME OF MATERIAL	[]BBLS		12	Г 1
TICKET, OPERATOR/S MATERIAL EXEMPT FI TO TIME, 40 U.S.C. § THERETO, BY VIRTUE ASSOCIATED WITH T GEOTHERMAL ENERC ALSO AS A CONDITI TICKET. TRANSPORT OPERATOR/SHIPPER FACILITY FOR DISPOS	SHIPPER REPRESENTS A ROM THE RESOURCE, CC 6901, et seq., THE NM H OF THE EXEMPTION AI HE EXPLORATION, DEV GY. ION TO SUNDANCE SER FER REPRESENTS AN TO TRANSPORTER IS N FAL.	VICES, INC.'S ACCEPTANCE O AND WARRANTS THAT THE DNSERVATION AND RECOVE EALTH AND SAF. CODE § 36 FFORDED DRILLING FLUID VELOPMENT OR PRODUCT VICES, INC.'S ACCEPTANCE O ND WARRANTS THAT ( IOW DELIVERED BY TRAN	F THE MATERIALS SHIPPE WASTE MATERIAL SHIPPE ERY ACT OF 1976, AS AME 1.001 et seq., AND REGUI S, PRODUCED WATERS, AN ION OF CRUDE OIL OR N ON OF CRUDE OIL OR N OF THE MATERIALS SHIPPI ONLY THE MATERIAL SPORTER TO SUNDANCE	ED WITH THIS JOB PED HEREWITH IS NDED FROM TIME LATIONS RELATED ND OTHER WASTE IATURAL GAS OR ED WITH THIS JOB DELIVERED BY SERVICES, INC.'S
THIS WILL CERTIFY above described locati materials were added	that the above Transpol ion, and that it was tenc to this load, and that the	rter loaded the material repr lered by the above describe material was delivered with	esented by this Transporte d shipper. This will certify t nout incident.	r Statement at the hat no additional
DRIVER: Doct	firio Roja			
(Signature) FACILITY REPRESEN		Ja Lu		

=∰= <sup>SI</sup>	JNDANCE SEI P.O. Box 1737 Eunice, Nu (575) 394-2	ew Mexico 88231 2511	TICKET No. 25887
LEASE OPERAT	OR/SHIPPER/COMPANY:	5/1 G	
LEASE NAME:	H-14 Slue	a Dverfle	540
TRANSPORTER	COMPANY: Men	Loza Tro	31150 · TIME2103
DATE:	24-BVEHICLE NO:	02	GENERATOR COMPANY MAN'S NAME: MILLIP
CHARGE TO:	SUG		RIG NAME AND NUMBER
		TYPE OF MATERIA	۱L
	[] Production Water	[ ] Drilling Fluids	[ ] Rinsate
	[ ] Tank Bottoms	Contaminated	Soil [] Jet Out
	[] Solids	[] BS&W Content	t: [] Call Out
Desce	intion:	DID	
PPC or API #			C-133#
			1-7
VOLUME OF M	IATERIAL []BBLS	: /[\] YAI	RD: []
AS A (	CONDITION TO SUNDANCE S	ERVICES, INC.'S ACCEPTANCE	OF THE MATERIALS SHIPPED WITH THIS
AS A TICKET, C MATERIA TO TIME, THERETO ASSOCIA GEOTHEF ALSO A TICKET. OPERATC	CONDITION TO SUNDANCE SI OPERATOR/SHIPPER REPRESEN L EXEMPT FROM THE RESOURG 40 U.S.C. § 6901, et seq., THE I , BY VIRTUE OF THE EXEMPTION TED WITH THE EXPLORATION MAL ENERGY. S A CONDITION TO SUNDANC TRANSPORTER REPRESENTS OR/SHIPPER TO TRANSPORTE	ERVICES, INC.'S ACCEPTANCE NTS AND WARRANTS THAT T CE, CONSERVATION AND RECO NM HEALTH AND SAF. CODE & ON AFFORDED DRILLING FLU I, DEVELOPMENT OR PRODU E SERVICES, INC.'S ACCEPTAN S AND WARRANTS THAT R IS NOW DELIVERED BY TR	E OF THE MATERIALS SHIPPED WITH THIS THE WASTE MATERIAL SHIPPED HEREWIT OVERY ACT OF 1976, AS AMENDED FROM T § 361.001 et seq., AND REGULATIONS RELA JIDS, PRODUCED WATERS, AND OTHER WA ICTION OF CRUDE OIL OR NATURAL GAS CE OF THE MATERIALS SHIPPED WITH THIS T ONLY THE MATERIAL DELIVERED KANSPORTER TO SUNDANCE SERVICES, I
AS A TICKET, C MATERIA TO TIME, THERETO ASSOCIA GEOTHEF ALSO A TICKET. OPERATO FACILITY THIS WI above de materials	CONDITION TO SUNDANCE SUPERATOR/SHIPPER REPRESEN L EXEMPT FROM THE RESOURG 40 U.S.C. § 6901, et seq., THE I BY VIRTUE OF THE EXEMPTION TED WITH THE EXPLORATION MAL ENERGY. S A CONDITION TO SUNDANCE TRANSPORTER REPRESENTS OR/SHIPPER TO TRANSPORTER FOR DISPOSAL. LL CERTIFY that the above Transport scribed location, and that it was were added to this load, and the	ERVICES, INC.'S ACCEPTANCE NTS AND WARRANTS THAT T CE, CONSERVATION AND RECO NM HEALTH AND SAF. CODE & ON AFFORDED DRILLING FLU I, DEVELOPMENT OR PRODU E SERVICES, INC.'S ACCEPTAN S AND WARRANTS THAT R IS NOW DELIVERED BY TR ansporter loaded the material as tendered by the above desc hat the material was delivered	E OF THE MATERIALS SHIPPED WITH THIS THE WASTE MATERIAL SHIPPED HEREWIT OVERY ACT OF 1976, AS AMENDED FROM T § 361.001 et seq., AND REGULATIONS RELA JIDS, PRODUCED WATERS, AND OTHER WA JICTION OF CRUDE OIL OR NATURAL GAS CE OF THE MATERIALS SHIPPED WITH THIS TONLY THE MATERIAL DELIVERED RANSPORTER TO SUNDANCE SERVICES, If represented by this Transporter Statement a ribed shipper. This will certify that no additi without incident.
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P.O. Box 1737 Eunice, N (575) 394-2	RVICES, Inc. lew Mexico 88231 2511	TICKET No. 250870
LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAME: $A - 14 - 5$ TRANSPORTER COMPANY: $A \perp 1$ DATE: $224 - 13$ VEHICLE NO:	5UG Jug Overflu Terrain Juck	TIME 2:01 AME ATOR COMPANY Phillip Litz
[ ] Production Water [ ] Tank Bottoms [ ] Solids	<ul> <li>[ ] Drilling Fluids</li> <li>[ ] Contaminated Soil</li> <li>[ ] BS&amp;W Content:</li> </ul>	[ ] Rinsate [ ] Jet Out [ ] Call Out
RRC or API #		C-133#
VOLUME OF MATERIAL []BBLS	: X-] YARD_/2	<u>: []</u>
AS A CONDITION TO SUNDANCE SE TICKET, OPERATOR/SHIPPER REPRESEN MATERIAL EXEMPT FROM THE RESOURC TO TIME, 40 U.S.C. § 6901, et seq., THE N THERETO, BY VIRTUE OF THE EXEMPTIC ASSOCIATED WITH THE EXPLORATION, GEOTHERMAL ENERGY.	ERVICES, INC'S ACCEPTANCE OF THE ITS AND WARRANTS THAT THE WAS E, CONSERVATION AND RECOVERY A M HEALTH AND SAF. CODE § 361.001 ON AFFORDED DRILLING FLUIDS, PRO , DEVELOPMENT OR PRODUCTION C	MATERIALS SHIPPED WITH THIS JOB TE MATERIAL SHIPPED HEREWITH IS CT OF 1976, AS AMENDED FROM TIME I et seq., AND REGULATIONS RELATED DUCED WATERS, AND OTHER WASTE OF CRUDE OIL OR NATURAL GAS OR
ALSO AS A CONDITION TO SUNDANCE TICKET. TRANSPORTER REPRESENTS OPERATOR/SHIPPER TO TRANSPORTER FACILITY FOR DISPOSAL.	E SERVICES, INC.'S ACCEPTANCE OF TH AND WARRANTS THAT ONLY IS NOW DELIVERED BY TRANSPOR	IE MATERIALS SHIPPED WITH THIS JOB THE MATERIAL DELIVERED BY TER TO SUNDANCE SERVICES, INC.'S
<b>THIS WILL CERTIFY</b> that the above Tra above described location, and that it wa materials were added to this load, and th	insporter loaded the material represent s tendered by the above described ship at the material was delivered without i	ted by this Transporter Statement at the oper. This will certify that no additional incident.
DRIVER:	Ad Q	

P.O. Box 1737 Eunice, N (575) 394-	RVICES, Inc. lew Mexico 88231 2511	TICKET No? 250876
EASE OPERATOR/SHIPPER/COMPANY:	SUG	
EASENAME: A-14 S/u	a Dverflow	
TRANSPORTER COMPANY: A DC 1	Po Trucking	TIME / / Z AN
DATE: 6-21-13 VEHICLE NO:	GENERA	MAN'S NAME: , DIA 16
CHARGETO: SUG	RIG 7 AND	NAME NUMBER
	TYPE OF MATERIAL	
[ ] Production Water	[ ] Drilling Fluids	[] Rinsate
[] Tank Bottoms	K] Contaminated Soil	[ ] Jet Out
[] Solids	[ ] BS&W Content:	[] Call Out
Description	010	
PPC or API #	<u><u> </u></u>	C-133#
	Xivano t	· []
AS A CONDITION TO SUNDANCE S TICKET, OPERATOR/SHIPPER REPRESE MATERIAL EXEMPT FROM THE RESOUR TO TIME, 40 U.S.C. § 6901, et seq., THE THERETO, BY VIRTUE OF THE EXEMPTI ASSOCIATED WITH THE EXPLORATION	SERVICES, INC:'S ACCEPTANCE OF THE INTS AND WARRANTS THAT THE WAS RCE, CONSERVATION AND RECOVERY A NM HEALTH AND SAF. CODE § 361.00 ION AFFORDED DRILLING FLUIDS, PRO N, DEVELOPMENT OR PRODUCTION (	MATERIALS SHIPPED WITH THIS JO TE MATERIAL SHIPPED HEREWITH I CT OF 1976, AS AMENDED FROM TIM et seq., AND REGULATIONS RELATED DUCED WATERS, AND OTHER WAST OF CRUDE OIL OR NATURAL GAS O
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GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANC TICKET. TRANSPORTER REPRESENT OPERATOR/SHIPPER TO TRANSPORTE 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:	CE SERVICES, INC.'S ACCEPTANCE OF TH TS AND WARRANTS THAT ONLY ER IS NOW DELIVERED BY TRANSPOF Transporter loaded the material represent vas tendered by the above described shi that the material was delivered without	IE MATERIALS SHIPPED WITH THIS JO THE MATERIAL DELIVERED B ITER TO SUNDANCE SERVICES, INC. ted by this Transporter Statement at th oper. This will certify that no addition incident.
GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANG TICKET. TRANSPORTER REPRESENT OPERATOR/SHIPPER TO TRANSPORTE 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:	CE SERVICES, INC.'S ACCEPTANCE OF THE IS AND WARRANTS THAT ONLY ER IS NOW DELIVERED BY TRANSPOF Transporter loaded the material represent was tendered by the above described shi that the material was delivered without	IE MATERIALS SHIPPED WITH THIS JO THE MATERIAL DELIVERED B TER TO SUNDANCE SERVICES, INC. ted by this Transporter Statement at th pper. This will certify that no addition incident.
GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANG TICKET. TRANSPORTER REPRESENT OPERATOR/SHIPPER TO TRANSPORTE 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: (SIGNATURE) FACILITY REPRESENTATIVE:	CE SERVICES, INC.'S ACCEPTANCE OF THE TS AND WARRANTS THAT ONLY ER IS NOW DELIVERED BY TRANSPOF Transporter loaded the material represent vas tendered by the above described shi that the material was delivered without A SHA	IE MATERIALS SHIPPED WITH THIS JO THE MATERIAL DELIVERED B ITER TO SUNDANCE SERVICES, INC. ted by this Transporter Statement at th oper. This will certify that no addition incident.

	<b>DANCE SERV</b> P.O. Box 1737 Eunice, New M (575) 394-2511	VICES, Inc. Mexico 88231	TICKET No. 251	308
LEASE OPERATOR	/SHIPPER/COMPANY:	3/16	,	
LEASE NAME:	A-14 514	Colfrain 2		
TRANSPORTER CO	MPANY: ANTer	TRK.	TIME 8:4	O AM/PM
DATE: 1125	TAN & VEHICLE NO:	GENERA	TOR COMPANY P. Litt.	10
	C + 1 / 3	RIG	NAME	
CHARGE TO:			NUMBER	
	-	TYPE OF MATERIAL		
	[] Production Water	[ ] Drilling Fluids	[] Rinsate	
2	[ ] Tank Bottoms	Contaminated Soil	[ ] Jet Out	
	[] Solids	[] BS&W Content:	[] Call Out	
Description		D		
Descripti	Un:		C 122#	
KKC OF API #			C*155#	
VOLUME OF MAT	ERIAL []BBLS	: //TYARD	<u>/: []_</u>	
TICKET, OPE MATERIAL EX TO TIME, 40 U THERETO, BY ASSOCIATED GEOTHERMA ALSO AS A	ATOR/SHIPPER REPRESENTS EMPT FROM THE RESOURCE, C J.S.C. § 6901, et seq., THE NM I VIRTUE OF THE EXEMPTION A WITH THE EXPLORATION, DE L ENERGY. CONDITION TO SUNDANCE SE ANSPORTER REPRESENTS A SHIPPER TO TRANSPORTER IS	AND WARRANTS THAT THE WAS CONSERVATION AND RECOVERY AC HEALTH AND SAF. CODE § 361.001 AFFORDED DRILLING FLUIDS, PRO EVELOPMENT OR PRODUCTION C RVICES, INC.'S ACCEPTANCE OF TH AND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPOR	TE MATERIAL SHIPPED HERE TOF 1976, AS AMENDED FRO et seq., AND REGULATIONS F DUCED WATERS, AND OTHEI FORUDE OIL OR NATURAL E MATERIALS SHIPPED WITH THE MATERIAL DELIVEF TER TO SUNDANCE SERVICE	WITH IS OM TIME Related R Waste Gas or Fhis Job Red By S, INC.'S
OPERATOR/S FACILITY FOI	R DISPUSAL.			
THIS WILL O Above descrit materials we	R DISPOSAL. <b>CERTIFY</b> that the above Transpin bed location, and that it was ten re added to this load, and that t (NATURE)	porter loaded the material represent ndered by the above described ship he material was delivered without i	ed by this Transporter Stateme per. This will certify that no a ncident.	ent at the dditional

P.O. Box 1737 Eunice, New Me (575) 394-2511	ICES, Inc.	TICKET No. 25	1065
	(IG		
LEASE NAME: A-14 Stu	S Over flow	<u></u>	,750
TRANSPORTER COMPANY:	rain TRK		<u>_ir AM/</u>
DATE: (0125/2013 VEHICLE NO:	GENE	MAN'S NAME:	r I <u>←</u>
CHARGE TO:	R	IG NAME ND NUMBER	
	TYPE OF MATERIAL		
1. 1. Draduction Water	[ ] Drilling Fluids	[] Rinsate	
	Contaminated Soil	[] Jet Out	
[] Solids	[] BS&W Content:	[ ] Call Out	
Description	<b>3</b>		
PRC or API #		C-133#	-
		17: 0	
TICKET, OPERATOR/SHIPPER REPRESENTS MATERIAL EXEMPT FROM THE RESOURCE, C TO TIME, 40 U.S.C. § 6901, et seq., THE NM H THERETO, BY VIRTUE OF THE EXEMPTION A ASSOCIATED WITH THE EXPLORATION, DE GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SE TICKET TRANSPORTER REPRESENTS A	CONSERVATION AND RECOVERY HEALTH AND SAF. CODE § 361.0 AFFORDED DRILLING FLUIDS, P EVELOPMENT OR PRODUCTION RVICES, INC.'S ACCEPTANCE OF AND WARRANTS THAT ON	ACT OF 1976, AS AMENDED OO1 et seq., AND REGULATIO RODUCED WATERS, AND O N OF CRUDE OIL OR NATU THE MATERIALS SHIPPED W	D FROM TIME DNS RELATED THER WASTE RAL GAS OF ITH THIS JOE IVERED BI
OPERATOR/SHIPPER TO TRANSPORTER IS FACILITY FOR DISPOSAL. <b>THIS WILL CERTIFY</b> that the above Transp above described location, and that it was te materials were added to this load, and that t	NOW DELIVERED BY TRANSP porter loaded the material represendered by the above described the material was delivered witho	sented by this Transporter Sta shipper. This will certify that but incident.	itement at the
DRIVER:	Con 21		
	Ginc he	Pink - Transporter	

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	P.O. Box 1737 Eunice, New M (575) 394-2511	ICES, Inc.	TICKET No.	251066
LEASE OPERATOR	SHIPPER/COMPANY:	116		
LEASE NAME:	A-14 51	us overf	1000	eri,
TRANSPORTER CO	DMPANY: APOIL	O TRK	TIMI	10:57AM
DATE: 1/7 </td <td>2013 VEHICLENO:</td> <td>LOZI GEN</td> <td>ERATOR COMPANY MAN'S NAME:</td> <td>Little</td>	2013 VEHICLENO:	LOZI GEN	ERATOR COMPANY MAN'S NAME:	Little
CHARGE TO:	5/16	5	RIG NAME AND NUMBER	
•				
		TYPE OF MATERIAL		
	[ ] Production Water	[] Drilling Fluids	[ ] Rinsate	
	[ ] Tank Bottoms	M Contaminated Soil	[] Jet Out	
	[] Solids	[] BS&W Content:	L J Call Out	
Descript	ion:	۶ <b>۴</b>		
RRC or API #			C-133#	
VOLUME OF MAT	ERIAL []BBLS.	: YARD	17_:	[]
TICKET, OPE MATERIAL E TO TIME, 40 THERETO, B ASSOCIATED GEOTHERM/ ALSO AS A TICKET. TR OPERATOR/ FACILITY FO	RATOR/SHIPPER REPRESENTS , (EMPT FROM THE RESOURCE, C U.S.C. § 6901, et seq., THE NM F ( VIRTUE OF THE EXEMPTION A ) WITH THE EXPLORATION, DE AL ENERGY. CONDITION TO SUNDANCE SEI ANSPORTER REPRESENTS A SHIPPER TO TRANSPORTER IS R DISPOSAL.	AND WARRANTS THAT THE WA ONSERVATION AND RECOVERY HEALTH AND SAF. CODE § 361.0 (FFORDED DRILLING FLUIDS, P VELOPMENT OR PRODUCTION RVICES, INC.'S ACCEPTANCE OF AND WARRANTS THAT ON NOW DELIVERED BY TRANSPO	ASTE MATERIAL SHIPP ACT OF 1976, AS AMEI 001 et seq., AND REGUL RODUCED WATERS, AN OF CRUDE OIL OR N THE MATERIALS SHIPPI LY THE MATERIAL ORTER TO SUNDANCE	ED HEREWITH IS NDED FROM TIME ATIONS RELATED ID OTHER WASTE IATURAL GAS OR ED WITH THIS JOB DELIVERED BY SERVICES, INC.'S
THIS WILL above descri materials we DRIVER:	<b>CERTIFY</b> that the above Transp bed location, and that it was ten re added to this load, and that th	orter loaded the material represendered by the above described s he material was delivered without MAAAAAA	ented by this Transporte hipper. This will certify ut incident.	r Statement at the that no additional

	P.O. Box 1737 Eunice, New M (575) 394-2511	VICES, Inc. lexico 88231	TICKET No. 251012
LEASE OPERATOR/SHI	IPPER/COMPANY: <	16	
LEASE NAME:	- 14 Shic	Over flow	
TRANSPORTER COMP	ANY: Mend	070 Traispar	TIME8:50A
DATE 0/25/20	VEHICLE NO: (		MAN'S NAME: 2.144
CHARGE TO:	<u> </u>	RI	G NAME
	049		
		TYPE OF MATERIAL	
	[ ] Production Water	[ ] Drilling Fluids	[] Rinsate
	[ ] Tank Bottoms	Contaminated Soil	[ ] Jet Out
	[] Solids	[ ] BS&W Content:	[ ] Call Out
Description:	<u> 810</u>	· · · · · · · · · · · · · · · · · · ·	
RRC or API #			C-133#
	rion to sundance servi Or/Shipper represents	CES, INC'S ACCEPTANCE OF TH	IE MATERIALS SHIPPED WITH THIS J
AS A CONDIT TICKET, OPERATI MATERIAL EXEM TO TIME, 40 U.S.O THERETO, BY VIR ASSOCIATED WI GEOTHERMAL EI	TION TO SUNDANCE SERVI OR/SHIPPER REPRESENTS PT FROM THE RESOURCE, C C. § 6901, et seq., THE NM H RTUE OF THE EXEMPTION A TH THE EXPLORATION, DE NERGY.	CES, INC'S ACCEPTANCE OF TH AND WARRANTS THAT THE WA ONSERVATION AND RECOVERY HEALTH AND SAF. CODE § 361.00 AFFORDED DRILLING FLUIDS, PF VELOPMENT OR PRODUCTION	IE MATERIALS SHIPPED WITH THIS J STE MATERIAL SHIPPED HEREWITH ACT OF 1976, AS AMENDED FROM TI 01 et seq., AND REGULATIONS RELAT RODUCED WATERS, AND OTHER WAS OF CRUDE OIL OR NATURAL GAS
AS A CONDIT TICKET, OPERAT MATERIAL EXEM TO TIME, 40 U.S.C THERETO, BY VIR ASSOCIATED WI GEOTHERMAL EI ALSO AS A COI TICKET. TRANS OPERATOR/SHIP FACILITY FOR DI	FION TO SUNDANCE SERVI OR/SHIPPER REPRESENTS PT FROM THE RESOURCE, C C. § 6901, et seq., THE NM H ATUE OF THE EXEMPTION A TH THE EXPLORATION, DE NERGY. NDITION TO SUNDANCE SE PORTER REPRESENTS A PPER TO TRANSPORTER IS SPOSAL.	CES, INC.'S ACCEPTANCE OF TH AND WARRANTS THAT THE WA CONSERVATION AND RECOVERY HEALTH AND SAF, CODE § 361.00 AFFORDED DRILLING FLUIDS, PF EVELOPMENT OR PRODUCTION RVICES, INC.'S ACCEPTANCE OF T AND WARRANTS THAT ONL NOW DELIVERED BY TRANSPC	E MATERIALS SHIPPED WITH THIS J STE MATERIAL SHIPPED HEREWITH ACT OF 1976, AS AMENDED FROM TI 01 et seq., AND REGULATIONS RELAT RODUCED WATERS, AND OTHER WAS OF CRUDE OIL OR NATURAL GAS THE MATERIALS SHIPPED WITH THIS J Y THE MATERIAL DELIVERED ORTER TO SUNDANCE SERVICES, IN
AS A CONDIT TICKET, OPERAT MATERIAL EXEM TO TIME, 40 U.S.O THERETO, BY VIR ASSOCIATED WI GEOTHERMAL EI ALSO AS A CON TICKET. TRANS OPERATOR/SHIP FACILITY FOR DI <b>THIS WILL CER</b> above described materials were a	TION TO SUNDANCE SERVI OR/SHIPPER REPRESENTS PT FROM THE RESOURCE, C C. § 6901, et seq., THE NM I RTUE OF THE EXEMPTION A TH THE EXPLORATION, DE NERGY. NDITION TO SUNDANCE SE PORTER REPRESENTS A PER TO TRANSPORTER IS SPOSAL. RTIFY that the above Transp location, and that it was te dded to this load, and that t	CES, INC.'S ACCEPTANCE OF TH AND WARRANTS THAT THE WA CONSERVATION AND RECOVERY HEALTH AND SAF, CODE § 361.00 AFFORDED DRILLING FLUIDS, PF WELOPMENT OR PRODUCTION RVICES, INC.'S ACCEPTANCE OF T AND WARRANTS THAT ONL NOW DELIVERED BY TRANSPC Porter loaded the material represe Indered by the above described sh he material was delivered withou	E MATERIALS SHIPPED WITH THIS J STE MATERIAL SHIPPED HEREWITH ACT OF 1976, AS AMENDED FROM TI 01 et seq., AND REGULATIONS RELAT RODUCED WATERS, AND OTHER WAS OF CRUDE OIL OR NATURAL GAS THE MATERIALS SHIPPED WITH THIS J Y THE MATERIAL DELIVERED ORTER TO SUNDANCE SERVICES, IN Ented by this Transporter Statement at hipper. This will certify that no addition at incident.
AS A CONDIT TICKET, OPERAT MATERIAL EXEM TO TIME, 40 U.S.C THERETO, BY VIR ASSOCIATED WI GEOTHERMAL EI ALSO AS A CON TICKET. TRANS OPERATOR/SHIP FACILITY FOR DI <b>THIS WILL CER</b> above described materials were a DRIVER:	TION TO SUNDANCE SERVI OR/SHIPPER REPRESENTS PT FROM THE RESOURCE, C C. § 6901, et seq., THE NM H RTUE OF THE EXEMPTION A TH THE EXPLORATION, DE NERGY. NDITION TO SUNDANCE SE PORTER REPRESENTS A PPER TO TRANSPORTER IS SPOSAL. RTIFY that the above Transp location, and that it was te dded to this load, and that t	CES, INC.'S ACCEPTANCE OF TH AND WARRANTS THAT THE WA CONSERVATION AND RECOVERY HEALTH AND SAF. CODE § 361.00 AFFORDED DRILLING FLUIDS, PF WELOPMENT OR PRODUCTION RVICES, INC.'S ACCEPTANCE OF T AND WARRANTS THAT ONL NOW DELIVERED BY TRANSPO Porter loaded the material represe Indered by the above described sh he material was delivered without	E MATERIALS SHIPPED WITH THIS J STE MATERIAL SHIPPED HEREWITH ACT OF 1976, AS AMENDED FROM TI 01 et seq., AND REGULATIONS RELAT ODUCED WATERS, AND OTHER WAS OF CRUDE OIL OR NATURAL GAS THE MATERIALS SHIPPED WITH THIS J Y THE MATERIAL DELIVERED ORTER TO SUNDANCE SERVICES, IN Inted by this Transporter Statement at hipper. This will certify that no addition it incident.
AS A CONDIT TICKET, OPERAT MATERIAL EXEM TO TIME, 40 U.S.C THERETO, BY VIR ASSOCIATED WI GEOTHERMAL EI ALSO AS A COI TICKET. TRANS OPERATOR/SHIP FACILITY FOR DI <b>THIS WILL CER</b> above described materials were a DRIVER:	TION TO SUNDANCE SERVI OR/SHIPPER REPRESENTS PT FROM THE RESOURCE, C C. § 6901, et seq., THE NM H ATUE OF THE EXEMPTION A TH THE EXPLORATION, DE NERGY. NDITION TO SUNDANCE SE PORTER REPRESENTS A PORTER REPRESENTS A PORTER REPRESENTS A PORTER TO TRANSPORTER IS SPOSAL. <b>RTIFY</b> that the above Transp location, and that it was ten dided to this load, and that t MINING AND AND AND AND AND INFOMENTIME (SIGNATURE)	CES, INC'S ACCEPTANCE OF TH AND WARRANTS THAT THE WA CONSERVATION AND RECOVERY HEALTH AND SAF. CODE § 361.00 AFFORDED DRILLING FLUIDS, PF EVELOPMENT OR PRODUCTION RVICES, INC'S ACCEPTANCE OF T AND WARRANTS THAT ONL NOW DELIVERED BY TRANSPO Porter loaded the material represes Indered by the above described sh he material was delivered without	I I I I I I I I I I I I I I I I I I I
AS A CONDIT TICKET, OPERAT MATERIAL EXEM TO TIME, 40 U.S.C THERETO, BY VIR ASSOCIATED WI GEOTHERMAL EI ALSO AS A CON TICKET. TRANS OPERATOR/SHIP FACILITY FOR DI <b>THIS WILL CER</b> above described materials were a DRIVER: (SIGNAT	TION TO SUNDANCE SERVI OR/SHIPPER REPRESENTS PT FROM THE RESOURCE, C C. § 6901, et seq., THE NM H RTUE OF THE EXEMPTION A TH THE EXPLORATION, DE NERGY. NDITION TO SUNDANCE SE PORTER REPRESENTS A PPER TO TRANSPORTER IS SPOSAL. RTIFY that the above Transp location, and that it was te dded to this load, and that t (SIGNATURE) RESENTATIVE:	CES, INC.'S ACCEPTANCE OF TH AND WARRANTS THAT THE WA CONSERVATION AND RECOVERY HEALTH AND SAF, CODE § 361.00 AFFORDED DRILLING FLUIDS, PF WELOPMENT OR PRODUCTION RVICES, INC.'S ACCEPTANCE OF T AND WARRANTS THAT ONL NOW DELIVERED BY TRANSPC Porter loaded the material represe Indered by the above described sh he material was delivered without Canary - Sundance Acct #1	E MATERIALS SHIPPED WITH THIS J STE MATERIAL SHIPPED HEREWITH ACT OF 1976, AS AMENDED FROM TI D1 et seq., AND REGULATIONS RELAT ODUCED WATERS, AND OTHER WAS OF CRUDE OIL OR NATURAL GAS THE MATERIALS SHIPPED WITH THIS J Y THE MATERIAL DELIVERED ORTER TO SUNDANCE SERVICES, IN Inted by this Transporter Statement at hipper. This will certify that no addition it incident.

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SUNDANCE SEI P.O. Box 1737 Eunice, No (575) 394-2	RVICES, Inc. ew Mexico 88231 2511	TICKET No.	251068
LEASE OPERATOR/SHIPPER/COMPANY:			
LEASE NAME:	un Overflow		C. Contractor
TRANSPORTER COMPANY:	1.26 TKK	TIM	AMU216
DATE: 102512013 VEHICLE NO:	GENE	RATOR COMPANY	
CHARGE TO: SUG	RI		2.
	TYPE OF MATERIAL		
[ ] Production Water	[ ] Drilling Fluids	[] Rinsatter	
[ ] Tank Bottoms	Contaminated Soil	[] Jet Out	
[] Solids	L J BS&W Content:	L I Can Ger	
Description:	<u>}</u>		
RRC or API #		C-133#	
VOLUME OF MATERIAL [ ] BBLS.	: [] YARD	<u>1∠:</u>	
AS A CONDITION TO SUNDANCE S TICKET, OPERATOR/SHIPPER REPRESE MATERIAL EXEMPT FROM THE RESOUR TO TIME, 40 U.S.C. § 6901, et seq., THE THERETO, BY VIRTUE OF THE EXEMPTION ASSOCIATED WITH THE EXPLORATION GEOTHERMAL ENERGY.	ERVICES, INC.'S ACCEPTANCE OF TH NTS AND WARRANTS THAT THE WA CE, CONSERVATION AND RECOVERY NM HEALTH AND SAF. CODE § 361.0 ON AFFORDED DRILLING FLUIDS, PI I, DEVELOPMENT OR PRODUCTION	HE MATERIALS SHIP ASTE MATERIAL SHIP ACT OF 1976, AS 101 et seq., AND HE RODUCED WATERS I OF CRUDUL OR	
ALSO AS A CONDITION TO SUNDANC TICKET. TRANSPORTER REPRESENT OPERATOR/SHIPPER TO TRANSPORTE FACILITY FOR DISPOSAL.	E SERVICES, INC'S ACCEPTANCE OF S AND WARRANTS THAT ONI R IS NOW DELIVERED BY TRANSPO		DELATRED DE SERVICES INC.
<b>THIS WILL CERTIFY</b> that the above Tr above described location, and that it w materials were added to this load, and t	ansporter loaded the material represe as tendered by the above described s hat the material was delivered withou	ented by t <b>ffe</b> Transport hipper. This will certify ut incident <b>©</b>	essatement of the state that he additional
DRIVER:	<u>Sui Rou</u>	<u>.</u>	
(SIGNATURE			
White - Sundance	Canary - Sundance Acct #1	-Piek - Transpo	orter
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SUN	P.O. Box 1737 Eunice, New Mex (575) 394-2511	<b>CES, Inc.</b> kico 88231	TICKET No. 251077
FASE OPERATOR/	SHIPPER/COMPANY: 5	UG	
LEASE NAME: TRANSPORTER CO DATE: 425	MPANY: FAMILY ZOIB VEHICLE NO:	CINERALDING CONFIEND SC F-2	TIME 11:24 AM/P OR COMPANY MAN'S NAME: P. Little
CHARGE TO:	SILC	AND	NUMBER
		TYPE OF MATERIAL	
	<ul><li>[ ] Production Water</li><li>[ ] Tank Bottoms</li><li>[ ] Solids</li></ul>	<ul> <li>[ ] Drilling Fluids</li> <li>[ ] Contaminated Soil</li> <li>[ ] BS&amp;W Content:</li> </ul>	[ ] Rinsate [ ] Jet Out [ ] Call Out
Descript	ion:O	<u>}</u>	C 107#
RRC or API #			C-133#
	FRIAL []BBLS	; /] YARD_/	<u> </u>
Δς Α (Ο		CES, INC.'S ACCEPTANCE OF THE	MATERIALS SHIPPED WITH THIS JOB
AS A CO TICKET, OPE MATERIAL E TO TIME, 40 THERETO, B ASSOCIATE GEOTHERM ALSO AS TICKET. TI OPERATOR FACILITY FO	NDITION TO SUNDANCE SERVIC 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 IAL ENERGY. A CONDITION TO SUNDANCE SE RANSPORTER REPRESENTS // SHIPPER TO TRANSPORTER IS OR DISPOSAL.	CES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT THE WAS ONSERVATION AND RECOVERY A HEALTH AND SAF. CODE § 361.00 AFFORDED DRILLING FLUIDS, PRO EVELOPMENT OR PRODUCTION RVICES, INC.'S ACCEPTANCE OF T AND WARRANTS THAT ONL' NOW DELIVERED BY TRANSPO	E MATERIALS SHIPPED WITH THIS JOB STE MATERIAL SHIPPED HEREWITH IS INCT OF 1976, AS AMENDED FROM TIME 1 et seq., AND REGULATIONS RELATED ODUCED WATERS, AND OTHER WASTE OF CRUDE OIL OR NATURAL GAS OR HE MATERIALS SHIPPED WITH THIS JOE Y THE MATERIAL DELIVERED BY INTER TO SUNDANCE SERVICES, INC.
AS A CO TICKET, OPF MATERIAL E TO TIME, 40 THERETO, B ASSOCIATE GEOTHERM ALSO AS J TICKET. TH OPERATOR FACILITY FO THIS WILL above deso materials v	NDITION TO SUNDANCE SERVIC 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 IAL ENERGY. A CONDITION TO SUNDANCE SE RANSPORTER REPRESENTS / /SHIPPER TO TRANSPORTER IS OR DISPOSAL. L <b>CERTIFY</b> that the above Transp ribed location, and that it was te vere added to this load, and that	CES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT THE WAS ONSERVATION AND RECOVERY A HEALTH AND SAF. CODE § 361.00 AFFORDED DRILLING FLUIDS, PRI VELOPMENT OR PRODUCTION RVICES, INC.'S ACCEPTANCE OF T AND WARRANTS THAT ONL' NOW DELIVERED BY TRANSPO porter loaded the material represe endered by the above described sh the material was delivered withou	E MATERIALS SHIPPED WITH THIS JOB STE MATERIAL SHIPPED HEREWITH IS ACT OF 1976, AS AMENDED FROM TIME 1 et seq., AND REGULATIONS RELATED ODUCED WATERS, AND OTHER WASTE OF CRUDE OIL OR NATURAL GAS OR HE MATERIALS SHIPPED WITH THIS JOE Y THE MATERIAL DELIVERED BY RTER TO SUNDANCE SERVICES, INC. Inted by this Transporter Statement at the hipper. This will certify that no additioned it incident.
AS A CO TICKET, OPF MATERIAL E TO TIME, 40 THERETO, B ASSOCIATE GEOTHERM ALSO AS J TICKET. TI OPERATOR FACILITY FO <b>THIS WILL</b> above desc materials v DRIVER: FACILITY	NDITION TO SUNDANCE SERVIC 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 IAL ENERGY. A CONDITION TO SUNDANCE SE RANSPORTER REPRESENTS / /SHIPPER TO TRANSPORTER IS OR DISPOSAL. L CERTIFY that the above Transp tribed location, and that it was te vere added to this load, and that (SIGNATURE) (REPRESENTATIVE:	CES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT THE WAS ONSERVATION AND RECOVERY A HEALTH AND SAF. CODE § 361.00 AFFORDED DRILLING FLUIDS, PR VELOPMENT OR PRODUCTION RVICES, INC.'S ACCEPTANCE OF T AND WARRANTS THAT ONL' NOW DELIVERED BY TRANSPO porter loaded the material represe endered by the above described sh the material was delivered without	E MATERIALS SHIPPED WITH THIS JOB STE MATERIAL SHIPPED HEREWITH IS ACT OF 1976, AS AMENDED FROM TIME 1 et seq., AND REGULATIONS RELATED ODUCED WATERS, AND OTHER WASTE OF CRUDE OIL OR NATURAL GAS OR HE MATERIALS SHIPPED WITH THIS JOE Y THE MATERIAL DELIVERED BY RTER TO SUNDANCE SERVICES, INC. Inted by this Transporter Statement at th hipper. This will certify that no additionent it incident.
AS A CO TICKET, OPI MATERIAL E TO TIME, 40 THERETO, B ASSOCIATE GEOTHERM ALSO ASJ TICKET. TI OPERATOR FACILITY FO <b>THIS WILL</b> above desc materials v DRIVER:	NDITION TO SUNDANCE SERVIC 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 IAL ENERGY. A CONDITION TO SUNDANCE SE RANSPORTER REPRESENTS / /SHIPPER TO TRANSPORTER IS OR DISPOSAL. L CERTIFY that the above Transp cribed location, and that it was te vere added to this load, and that (SIGNATURE) (REPRESENTATIVE: (SIGNATURE) White - Sundance	CES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT THE WAS ONSERVATION AND RECOVERY A HEALTH AND SAF. CODE § 361.00 AFFORDED DRILLING FLUIDS, PRE VELOPMENT OR PRODUCTION RVICES, INC.'S ACCEPTANCE OF T AND WARRANTS THAT ONL' NOW DELIVERED BY TRANSPO porter loaded the material represe endered by the above described sh the material was delivered without Canary - Sundance Acct #1	E MATERIALS SHIPPED WITH THIS JOB STE MATERIAL SHIPPED HEREWITH IS ACT OF 1976, AS AMENDED FROM TIME 1 et seq., AND REGULATIONS RELATED ODUCED WATERS, AND OTHER WASTE OF CRUDE OIL OR NATURAL GAS OR HE MATERIALS SHIPPED WITH THIS JOE Y THE MATERIAL DELIVERED BY ORTER TO SUNDANCE SERVICES, INC. Inted by this Transporter Statement at the hipper. This will certify that no additioned it incident.

JL SUNDANCE SERVI	CES, Inc.	TICKET No. 251075
P.O. Box 1737 Eunice, New Mexic (575) 394-2511	co 88231	
LEASE OPERATOR/SHIPPER/COMPANY:	16	
LEASE NAME: A-14 Sturs	<u>Cuertilow</u>	TIME 11.71 AM/
TRANSPORTER COMPANY: 51000	GENE GENE	RATOR COMPANY MAN'S NAME: Phillip Li
	R	IG NAME ND NUMBER
CHARGE IO:		
Ť	YPE OF MATERIAL	[ ] Rinsate
[] Production Water	[ ] Drilling Fluids	[] Jet Out
[ ] Tank Bottoms	[] BS&W Content:	[] Call Out
Description:		C-133#
	: IV YARD_	17 : []
AS A CONDITION TO SUNDAILCE SERVICE	ND WARBANTS THAT THE	ASTE MATERIAL SHIPPED HEREWITH I
AS A CONDITION TO SUNDARCE SENTS A TICKET, OPERATOR/SHIPPER REPRESENTS A MATERIAL EXEMPT FROM THE RESOURCE, CC TO TIME, 40 U.S.C. § 6901, et seq., THE NM HE THERETO, BY VIRTUE OF THE EXEMPTION AF ASSOCIATED WITH THE EXPLORATION, DEV GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SER	ND WARRANTS THAT THE W DNSERVATION AND RECOVER EALTH AND SAF. CODE § 361 FORDED DRILLING FLUIDS, VELOPMENT OR PRODUCTIO	ASTE MATERIAL SHIPPED HEREWITH IS Y ACT OF 1976, AS AMENDED FROM TIMI 001 et seq., AND REGULATIONS RELATED PRODUCED WATERS, AND OTHER WAST N OF CRUDE OIL OR NATURAL GAS O F THE MATERIALS SHIPPED WITH THIS JO NIY THE MATERIAL DELIVERED B
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AS A CONDITION TO SUMDARCE SERVICE TICKET, OPERATOR/SHIPPER REPRESENTS A MATERIAL EXEMPT FROM THE RESOURCE, CC TO TIME, 40 U.S.C. § 6901, et seq., THE NM HI THERETO, BY VIRTUE OF THE EXEMPTION AF ASSOCIATED WITH THE EXPLORATION, DEV GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SER TICKET. TRANSPORTER REPRESENTS AN OPERATOR/SHIPPER TO TRANSPORTER IS N FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transpor above described location, and that it was ten materials were added to this load, and that th	ND WARRANTS THAT THE W DNSERVATION AND RECOVER EALTH AND SAF. CODE § 361. FORDED DRILLING FLUIDS, VELOPMENT OR PRODUCTIO WICES, INC.'S ACCEPTANCE O ND WARRANTS THAT O NOW DELIVERED BY TRANS Porter loaded the material repre- ndered by the above described the material was delivered with	ASTE MATERIAL SHIPPED HEREWITH IS Y ACT OF 1976, AS AMENDED FROM TIME 001 et seq., AND REGULATIONS RELATED PRODUCED WATERS, AND OTHER WAST N OF CRUDE OIL OR NATURAL GAS O F THE MATERIALS SHIPPED WITH THIS JO NLY THE MATERIAL DELIVERED B PORTER TO SUNDANCE SERVICES, INC.
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AS A CONDITION TO SOLVARCE SERVICE TICKET, OPERATOR/SHIPPER REPRESENTS A MATERIAL EXEMPT FROM THE RESOURCE, CC TO TIME, 40 U.S.C. § 6901, et seq., THE NM HI THERETO, BY VIRTUE OF THE EXEMPTION AF ASSOCIATED WITH THE EXPLORATION, DEV GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SER TICKET. TRANSPORTER REPRESENTS AI OPERATOR/SHIPPER TO TRANSPORTER IS N FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transpon above described location, and that it was ten materials were added to this load, and that th DRIVER: (SIGNATURE) FACILITY REPRESENTATIVE: (SIGNATURE) White - Sundance	Canary - Sundance Acct #1	ASTE MATERIAL SHIPPED HEREWITH IS Y ACT OF 1976, AS AMENDED FROM TIME 001 et seq., AND REGULATIONS RELATED PRODUCED WATERS, AND OTHER WAST N OF CRUDE OIL OR NATURAL GAS O F THE MATERIALS SHIPPED WITH THIS JO NLY THE MATERIAL DELIVERED B PORTER TO SUNDANCE SERVICES, INC. Essented by this Transporter Statement at the I shipper. This will certify that no addition rout incident. Pink - Transporter

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	P.O. Box 1737 Eunio (575) 3	ERVICES, I re, New Mexico 88231 394-2511	nc. T	ICKET No. 251078
LEASE OPERA LEASE NAME: TRANSPORTE DATE: / 0/ 1	TOR/SHIPPER/COMPANY: A - 14 R COMPANY: Ap 2 <1/2 VEHICLE N	SUG Jus Our Olio Tick O: 05	GENERATOR ( MAI	COMPANY NSNAME P. LIHI-
CHARGE TO:	SUC		RIG NAM AND NU	Е ИBER
		TYPE OF M	TERIAL	
	[ ] Production W [ ] Tank Bottoms [ ] Solids	ater [] Drillir [] Conta [] BS&V	g Fluids minated Soil ' Content:	[ ] Jet Out [ ] Call Out
Des	cription:	C/Ld		C-133#
RRC or API #			Man 1 mg	• [1]
1 AS /				THE RUDDED LEDELANTING
TICKET, MATER TO TIM THERE ASSOC	OPERATOR/SHIPPER REP AL EXEMPT FROM THE RES E, 40 U.S.C. § 6901, et seq., FO, BY VIRTUE OF THE EXE IATED WITH THE EXPLOR/ ERMAL ENERGY.	RESENTS AND WARRANT OURCE, CONSERVATION THE NM HEALTH AND SA MPTION AFFORDED DRII ATION, DEVELOPMENT O	S THAT THE WASTE AND RECOVERY ACT F. CODE § 361.001 et LING FLUIDS, PROD R PRODUCTION OF	MATERIAL SHIPPED HEREWITH IS OF 1976, AS AMENDED FROM TIME t seq., AND REGULATIONS RELATED UCED WATERS, AND OTHER WASTE CRUDE OIL OR NATURAL GAS OR
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TICKET, MATER TO TIM THERE ASSOC GEOTH ALSC TICKET OPERA FACILI THIS above mater DRIV	OPERATOR/SHIPPER REPI AL EXEMPT FROM THE RESE E, 40 U.S.C. § 6901, et seq., TO, BY VIRTUE OF THE EXE HATED WITH THE EXPLOR/ ERMAL ENERGY. AS A CONDITION TO SUNI TRANSPORTER REPRE TOR/SHIPPER TO TRANSP TY FOR DISPOSAL. MILL CERTIFY that the ab described location, and the als were added to this load, VER: (SIGNATURE) LITY REPRESENTATIVE:	RESENTS AND WARRANT GOURCE, CONSERVATION THE NM HEALTH AND SA MPTION AFFORDED DRII ATION, DEVELOPMENT O DANCE SERVICES, INC'S A SENTS AND WARRAN ORTER IS NOW DELIVER ove Transporter loaded th at it was tendered by the o and that the material wa	S THAT THE WASTE AND RECOVERY ACT F. CODE § 361.001 et LING FLUIDS, PRODI R PRODUCTION OF CCEPTANCE OF THE TS THAT ONLY ED BY TRANSPORTE material represented bove described shipp delivered without int	MATERIAL SHIPPED HEREWITH IS OF 1976, AS AMENDED FROM TIME t seq., AND REGULATIONS RELATED UCED WATERS, AND OTHER WASTE CRUDE OIL OR NATURAL GAS OR MATERIALS SHIPPED WITH THIS JOE THE MATERIAL DELIVERED BY R TO SUNDANCE SERVICES, INC.'S d by this Transporter Statement at the er. This will certify that no additional cident.

<u>'  '</u>	•	P.O. Box 173	' Eunice, New (575) 394-25	v Mexico 882: 11	31		TIC	(ET No.	25	1086
LEASE OP	ERATOR/SI	HPPER/COM	ANY:	SUG						
LEASE NA	ME:	A-14	Slu	5 OVA	erfloi	$\omega$				and the second se
TRANSPO	RTER COM	PANY:	- CIDNL	N.	CART	47	Ser.	TI	ME //.	44 AM
DATE: 40	125/20	VEHI	CLENO:	<u>r - 3</u>		GENI	RATOR COM MAN'S N	IAME:	Litt	1 <u>e</u>
CHARGET	г <b>О:</b>	5111	•• *			F F	IG NAME	L		
				TYPE (	OF MATE	RIAL				
		[] Droduct	on Water	 [ ]	Drilling Fl	lids		[] Rinsat	e	
			toms		Contamin	ated Soil		[] Jet Ou	it .	
		[] Solide			BS&W Col	ntent:		[] Call O	ut	
		r 1 20803		10			•			
	Descriptior	1:	0	16			-			
RRC or Al	P1 #							C-133#		
VOLUME	OF MATER	IAL []BE	LS		A	YARD	12	•	[]	
MA TO THE ASS GEC AI TICI	TERIAL EXEL FIME, 40 U.S RETO, BY V OCIATED V OTHERMAL LSO AS A C KET. TRAM	MOTOSTIFTEN MPT FROM TH 5.C. § 6901, et IRTUE OF THE VITH THE EXF ENERGY. ONDITION TO ISPORTER R	E RESOURCI seq., THE N. EXEMPTIO LORATION, SUNDANCE EPRESENTS	E, CONSERV, M HEALTH A N AFFORDE DEVELOPM SERVICES, II AND WA	ATION AND ND SAF. CC D DRILLINC ENT OR PR NC.'S ACCEF ARRANTS	RECOVER) DE § 361.0 FLUIDS, F ODUCTION TANCE OF	ACT OF 001 et sec RODUCE N OF CRU THE MAT	I 976, AS AI I., AND REC D WATERS, JDE OIL O ERIALS SHI MATERIA	MENDED SULATIO AND O R NATUI IPPED W AL DEL	) FROMTIM NS RELATE( THER WAST RAL GAS O ITH THIS JO IVERED B VICES, INC
FAC FAC <i>TH</i> <i>abc</i> <i>ma</i>	ILITY FOR I IS WILL CL ove describe terials were	DISPOSAL. <b>ERTIFY</b> that the distance of the d	e above Trai d that it was load, and the	nsporter load tendered by at the mater	ded the mail y the above ial was deliv	erial repres described rered witho	ented by s shipper. Tr ut incider	this Transpo his will cert ht.	orter Sta ify that i	tement at th no addition
F	(SIGN ACILITY RE	ATURE) P <b>RESENTATIV</b>	E: <u>(</u>	meet	Rone	<u> </u>				

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P.O. Box 1737 Eunice, New M. (575) 394-2511	ICES, Inc.	TICKET No. 251016
EASE OPERATOR/SHIPPER/COMPANY:	UG	
EASE NAME: A-14 SI	us Overthe	0.0
TRANSPORTER COMPANY:	's Oilfield S	r, TIME 8.52 AM
DATE: 6/2013 VEHICLE NO:	F-2 GENER/	MAN'S NAME: P. LITTLE
$\frac{1}{1}$	RIG	NAME D NUMBER
	TYPE OF MATERIAL	
[ ] Production Water	[ ] Drilling Fluids	[ ] Rinsate
[ ] Tank Bottoms	Contaminated Soil	[ ] Jet Out
[] Solids	[ ] BS&W Content:	[] Call Out
Description: $OIO$		
		C-133#
		$12 \cdot 11$
AS A CONDITION TO SUNDANCE SERVI TICKET, OPERATOR/SHIPPER REPRESENTS MATERIAL EXEMPT FROM THE RESOURCE, C TO TIME, 40 U.S.C. § 6901, et seq., THE NM H THERETO, BY VIRTUE OF THE EXEMPTION A ASSOCIATED WITH THE EXPLORATION, DE GEOTHERMAL ENERGY.	CES, INC.'S ACCEPTANCE OF THI AND WARRANTS THAT THE WA: ONSERVATION AND RECOVERY A HEALTH AND SAF. CODE § 361.00 AFFORDED DRILLING FLUIDS, PR VELOPMENT OR PRODUCTION	E MATERIALS SHIPPED WITH THIS JOE STE MATERIAL SHIPPED HEREWITH IS ACT OF 1976, AS AMENDED FROM TIME IT et seq., AND REGULATIONS RELATED ODUCED WATERS, AND OTHER WASTI OF CRUDE OIL OR NATURAL GAS OI
ALSO AS A CONDITION TO SUNDANCE SE TICKET. TRANSPORTER REPRESENTS / OPERATOR/SHIPPER TO TRANSPORTER IS FACILITY FOR DISPOSAL.	RVICES, INC.'S ACCEPTANCE OF T AND WARRANTS THAT ONL' NOW DELIVERED BY TRANSPO	HE MATERIALS SHIPPED WITH THIS JOI Y THE MATERIAL DELIVERED B RTER TO SUNDANCE SERVICES, INC:
<b>THIS WILL CERTIFY</b> that the above Transp above described location, and that it was te materials were added to this load, and that t	porter loaded the material represe Indered by the above described sh the material was delivered withou	nted by this Transporter Statement at th lipper. This will certify that no additiond t incident.
THIS WILL CERTIFY that the above Transp above described location, and that it was te materials were added to this load, and that to DRIVER:	porter loaded the material represent andered by the above described shift the material was delivered withou	nted by this Transporter Statement at th lipper. This will certify that no additiond t incident.

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	P.O. Box 1737 Eunice, New M (575) 394-2511	ICES, Inc. exico 88231	TICKET No. 251011
LEASE OPERATOR	SHIPPER/COMPANY:	UG	
LEASE NAME:	14-14 51	us Overfloo	.)
TRANSPORTER CO	MPANY: Sword	15 7 5456	TIME 8:49 AM
DATEDZSZ	D13 VEHICLE NO:	760 GEN	IERATOR COMPANY MAN'S NAME: F, LIHIC
CHARGE TO:	SUG		RIG NAME AND NUMBER
		TYPE OF MATERIAL	
	[] Production Water	[ ] Drilling Fluids	[ ] Rinsate
	[ ] Tank Bottoms	Contaminated Soil	[ ] Jet Out
	[] Solids	[ ] BS&W Content:	[ ] Call Out
Descripti	on: 0/F		
PPC or API #			C-133#
		10 years	
VOLUME OF MAT	ERIAL []BBLS	:YIARD	<u></u> . []
	NDITION TO SUNDANCE SERVI	CES, INC:S ACCEPTANCE OF T	HE MATERIALS SHIPPED WITH THIS JOB
AS A CON TICKET, OPE MATERIAL EX TO TIME, 40 I THERETO, BY ASSOCIATED GEOTHERMA ALSO AS A TICKET. TR OPERATOR/S FACILITY FO	NDITION TO SUNDANCE SERVI RATOR/SHIPPER REPRESENTS (EMPT FROM THE RESOURCE, C U.S.C. § 6901, et seq., THE NM H ( VIRTUE OF THE EXEMPTION A ) WITH THE EXPLORATION, DE AL ENERGY. CONDITION TO SUNDANCE SE ANSPORTER REPRESENTS A SHIPPER TO TRANSPORTER IS R DISPOSAL.	CES, INC.'S ACCEPTANCE OF T AND WARRANTS THAT THE W ONSERVATION AND RECOVER HEALTH AND SAF. CODE § 361. AFFORDED DRILLING FLUIDS, I VELOPMENT OR PRODUCTIO RVICES, INC.'S ACCEPTANCE OF AND WARRANTS THAT OF NOW DELIVERED BY TRANSF	THE MATERIALS SHIPPED WITH THIS JOB VASTE MATERIAL SHIPPED HEREWITH IS Y ACT OF 1976, AS AMENDED FROM TIME 001 et seq., AND REGULATIONS RELATED PRODUCED WATERS, AND OTHER WASTE N OF CRUDE OIL OR NATURAL GAS OR THE MATERIALS SHIPPED WITH THIS JOB NLY THE MATERIAL DELIVERED BY PORTER TO SUNDANCE SERVICES, INC'S
AS A CON TICKET, OPE MATERIAL E) TO TIME, 40 I THERETO, BN ASSOCIATED GEOTHERMA ALSO AS A TICKET. TRA OPERATOR/S FACILITY FO <b>THIS WILL</b> above descrimaterials we DRIVER: [51]	NDITION TO SUNDANCE SERVI RATOR/SHIPPER REPRESENTS (EMPT FROM THE RESOURCE, C U.S.C. § 6901, et seq., THE NM H ( VIRTUE OF THE EXEMPTION A ) WITH THE EXPLORATION, DE AL ENERGY. CONDITION TO SUNDANCE SE ANSPORTER REPRESENTS A SHIPPER TO TRANSPORTER IS R DISPOSAL. CERTIFY that the above Transp bed location, and that it was te the added to this load, and that t (SIGNATURE) (SIGNATURE)	CES, INC.'S ACCEPTANCE OF T AND WARRANTS THAT THE W ONSERVATION AND RECOVER HEALTH AND SAF. CODE § 361. AFFORDED DRILLING FLUIDS, I VELOPMENT OR PRODUCTIO RVICES, INC.'S ACCEPTANCE OF AND WARRANTS THAT OF NOW DELIVERED BY TRANSF Porter loaded the material repre- indered by the above described he material was delivered without the material was delivered without	THE MATERIALS SHIPPED WITH THIS JOB WASTE MATERIAL SHIPPED HEREWITH IS Y ACT OF 1976, AS AMENDED FROM TIME 001 et seq., AND REGULATIONS RELATED PRODUCED WATERS, AND OTHER WASTE N OF CRUDE OIL OR NATURAL GAS OR THE MATERIALS SHIPPED WITH THIS JOB NLY THE MATERIAL DELIVERED BY PORTER TO SUNDANCE SERVICES, INC'S sented by this Transporter Statement at the shipper. This will certify that no additional but incident.

SU	NDANCE SERV P.O. Box 1737 Eunice, New N (575) 394-2511	Aexico 88231	TICKET No. 251017
LEASE OPERATO	R/SHIPPER/COMPANY:	SUG	
LEASE NAME:	A-14 510	a Querflo	NE ( )
TRANSPORTER	OMPANY: APOILS	TRIC	TIMES SL/ CAM
DATE: 125	2013 VEHICLE NO:	GENI	RATOR COMPANY P. Little
CHARGE TO:	SUG	F A	IG NAME IND NUMBER
		TYPE OF MATERIAL	
	[] Production Water	[] Drilling Fluids	[] Rinsate
	[ ] Tank Bottoms	T Contaminated Soil	[ ] Jet Out
	[] Solids	[] BS&W Content:	[] Call Out
Descrip	tion:		
RRC or API #			C_122#
VOLUME OF MA		,	8 /
AS A CO	INDITION TO SUNDANCE SERVIC	CES, INC'S ACCEPTANCE OF TH	IE MATERIALS SHIPPED WITH THIS JOB
AS A CC TICKET, OPI MATERIAL E TO TIME, 40 THERETO, B ASSOCIATEI GEOTHERM	INDITION TO SUNDANCE SERVIC 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, DEV AL ENERGY.	CES, INC'S ACCEPTANCE OF TH AND WARRANTS THAT THE WA ONSERVATION AND RECOVERY IEALTH AND SAF. CODE § 361.00 FFORDED DRILLING FLUIDS, PF VELOPMENT OR PRODUCTION	IE MATERIALS SHIPPED WITH THIS JOB ASTE MATERIAL SHIPPED HEREWITH IS ACT OF 1976, AS AMENDED FROM TIME D1 et seq., AND REGULATIONS RELATED RODUCED WATERS, AND OTHER WASTE OF CRUDE OIL OR NATURAL GAS OR
AS A CC TICKET, OPI MATERIAL E TO TIME, 40 THERETO, B ASSOCIATEI GEOTHERM ALSO AS A TICKET. TR OPERATOR/ FACILITY FC	INDITION TO SUNDANCE SERVIC 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, DEV AL ENERGY. A CONDITION TO SUNDANCE SEF ANSPORTER REPRESENTS A SHIPPER TO TRANSPORTER IS I IR DISPOSAL.	CES, INC.'S ACCEPTANCE OF THAND WARRANTS THAT THE WA ONSERVATION AND RECOVERY IEALTH AND SAF. CODE § 361.00 FFORDED DRILLING FLUIDS, PF VELOPMENT OR PRODUCTION RVICES, INC.'S ACCEPTANCE OF T ND WARRANTS THAT ONL NOW DELIVERED BY TRANSPO	IE MATERIALS SHIPPED WITH THIS JOB STE MATERIAL SHIPPED HEREWITH IS ACT OF 1976, AS AMENDED FROM TIME D1 et seq., AND REGULATIONS RELATED RODUCED WATERS, AND OTHER WASTE OF CRUDE OIL OR NATURAL GAS OR THE MATERIALS SHIPPED WITH THIS JOB Y THE MATERIAL DELIVERED BY PATER TO SUNDANCE SERVICES, INC.'S
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AS A CC TICKET, OPI MATERIAL E TO TIME, 40 THERETO, B ASSOCIATEI GEOTHERM ALSO AS A TICKET. TR OPERATOR/ FACILITY FC <b>THIS WILL</b> above descr materials we DRIVER:	IERIAL [] BBLS. PNDITION TO SUNDANCE SERVIC 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, DEV AL ENERGY. A CONDITION TO SUNDANCE SEF ANSPORTER REPRESENTS A SHIPPER TO TRANSPORTER IS I PR DISPOSAL. CERTIFY that the above Transpo- tibed location, and that it was ten there added to this load, and that the GNATURES REPRESENTATIVE:	CES, INC'S ACCEPTANCE OF THAND WARRANTS THAT THE WA ONSERVATION AND RECOVERY IEALTH AND SAF. CODE § 361.00 FFORDED DRILLING FLUIDS, PF VELOPMENT OR PRODUCTION RVICES, INC'S ACCEPTANCE OF T ND WARRANTS THAT ONL NOW DELIVERED BY TRANSPO Porter loaded the material represendered by the above described show the material was delivered without	E MATERIALS SHIPPED WITH THIS JOB STE MATERIAL SHIPPED HEREWITH IS ACT OF 1976, AS AMENDED FROM TIME D1 et seq., AND REGULATIONS RELATED RODUCED WATERS, AND OTHER WASTE OF CRUDE OIL OR NATURAL GAS OR THE MATERIALS SHIPPED WITH THIS JOB Y THE MATERIAL DELIVERED BY PRTER TO SUNDANCE SERVICES, INC'S Inted by this Transporter Statement at the hipper. This will certify that no additional t incident.

	<b>NDANCE SERV</b> P.O. Box 1737 Eunice, New Mo (575) 394-2511	ICES, Inc. exico 88231	TICKET No.	251018
LEASE OPERATOR	R/SHIPPER/COMPANY:	SUG Lus Querfl	ు రది	- 0- <i>ci</i> (6)
TRANSPORTER CO	1201 VEHICLE NO:	5 Critfield F-3 GEN	S.C.Y. TIME ERATOR COMPANY MAN'S NAME: 4.2	: 8.54 (AM) Little
CHARGE TO:	SUG	F	NG NAME AND NUMBER	
		TYPE OF MATERIAL		
	[ ] Production Water [ ] Tank Bottoms [ ] Solids	<ul> <li>[ ] Drilling Fluids</li> <li>[ ] Contaminated Soil</li> <li>[ ] BS&amp;W Content:</li> </ul>	[ ] Rinsate [ ] Jet Out [ ] Call Out	
Descrip	tion:0/D		C-133#	
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## State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

	Release	Notificatio	on and Corrective Actio	on			
			OPERATOR	$\boxtimes$	Initial Report		Final Report
Name of Comp	any Southern Union Gas Ser	vices	Contact Rose Slade				
Address	801 South Loop 464, Monahan	s, TX 79756	Telephone No. 432-940-5147				
Facility Name	A-14 Slug Overflow		Facility Type Natural Gas Com	ipresso	or Station		
Surface Owner	Bureau of Land Management	Mineral Owner		A	PI No 30-025-28	822	
		LOCATIC	N OF RELEASE				

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
п	0	243	376					LCa

Latitude 32 degrees 14,771' Longitude 103 degrees 24.120'

## NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 8 BBLS Volume	Recovered Unknown
Source of Release Condensate Tank	Date and Hour of Occurrence Date and	d Hour of Discovery
	December 27, 2011 – Unknown December 27, 2011 – Unknown	er 27, 2011-1000 hours
Was Immediate Notice Given?	If YES, To Whom?	
🗌 Yes 🔲 No 🖾 Not Required		
By Whom?	Date and Hour	
Was a Watercourse Reached?	If VES Volume Impacting the Watercourse	
	in 125, volume impacting the watercourse.	
a Watercourse was Impacted, Describe Fully.*		HOBBSOCD
		AUG 2 3 2012
		0 2015
Describe Cause of Problem and Remedial Action Taken.*		
A gas producer experienced a malfunction at a nearby facility, resulting i	in a "slug" of crude oil being transported throug	Restlecting line to the
Southern Union A-14 Compressor Station. On entering the Station, the oi	I slug encountered a field scrubber unit, used to	separate liquids from the raw
natural gas stream. The field scrubber dumped the liquids to the condensa	te storage tank. Due to the large slug of liquids,	the 210 bbl condensate tank was
unable to contain the volume of the slug. The tank overflowed into the co	mmon fiberglass secondary containment, which	has been sized to contain the
NMOCD required volume. The volume of the crude was greater than the	volume of the secondary containment; resulting	in approximately eight (8) bbls of
liquids being released to the ground within the Station. On discovery of the	te release a vacuum truck was utilized to recove	liquids from the containment
and areas affected by the release.		
-		
Describe Area Affected and Cleanup Action Taken.*		
The area affected measures approximately 1,300 square feet. Delineation	and remediation activities will follow NMOCD	guidelines.
I hereby certify that the information given above is true and complete to t	he best of my knowledge and understand that pu	rsuant to NMOCD rules and
regulations all operators are required to report and/or file certain release n	otifications and perform corrective actions for r	leases which may endanger
public health or the environment. The acceptance of a C-141 report by th	e NMOCD marked as "Final Report" does not r	lieve the operator of liability
should their operations have failed to adequately investigate and remediat	e contamination that pose a threat to ground wa	er, surface water, human health
or the environment. In addition, NMOCD acceptance of a C-141 report d	oes not relieve the operator of responsibility for	compliance with any other
federal, state, or local laws and/or regulations.		
	OIL CONSERVATIO	DIVISION
Signature:		0
	Approved by District Supervisor: $\Lambda \circ \alpha$	med -11-14
Printed Name: Rose L. Slade	reprised by District Supervisor. VAVY	Cuand
		all
Title: EHS Compliance Specialist	Approval Date: /	Date: 411110
		· · · · · · · · · · · · · · · · ·
E-mail Address: rose.slade@sug.com	Conditions of Approval:	Americal [7]
		Ausched
Date: January 10, 2012 Phone: 432-940-5147		148=4320

\* Attach Additional Sheets If Necessary