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REMEDIATION SUMMARY & SITE CLOSURE REQUEST

**SOUTHERN UNION GAS SERVICES
A-14 6" LINE (RP-1127)
HISTORICAL RELEASE SITE
Lea County, New Mexico
Unit Letter "B" (NW/NE), Section 7, Township 23 South, Range 34 East
Latitude 32° 19.563' North, Longitude 103° 30.334' West
NMOCD Reference # 1RP-1127**

Prepared For:

Southern Union Gas Services
801 S. Loop 464
Monahans, TX 79756

Prepared By:

Basin Environmental Service Technologies, LLC
3100 Plains Highway
Lovington, New Mexico 88260

December 2014

Joel W. Lowry
Project Manager

TABLE OF CONTENTS

1.0 INTRODUCTION & BACKGROUND INFORMATION.....	1
2.0 NMOC SITE CLASSIFICATION.....	1
3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES.....	2
4.0 QA/QC PROCEDURES.....	4
4.1 Soil Sampling.....	4
4.2 Decontamination of Equipment.....	4
4.3 Laboratory Protocol.....	4
5.0 SITE CLOSURE REQUEST.....	4
6.0 LIMITATIONS.....	5
7.0 DISTRIBUTION.....	6

FIGURES

Figure 1 – Site Location Map

Figure 2 – Site & Sample Location Map

TABLES

Table 1 – Historical Concentrations of Benzene, BTEX, TPH & Chloride in Soil

Table 2 – Concentrations of Benzene, BTEX, TPH & Chloride in Soil

APPENDICES

Appendix A – Photographs

Appendix B – Soil Boring Logs

Appendix C – Laboratory Analytical Reports

Appendix D – Disposal Manifests

Appendix E – Release Notification and Corrective Action (Form C-141)

1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of Southern Union Gas Services (Southern Union), has prepared this *Remediation Summary & Site Closure Request* for the release site known as A-14 6" Line Historical. The legal description of the release site is Unit Letter "B" (NW/NE), Section 7, Township 23 South, Range 34 East, in Lea County, New Mexico. The geographic coordinates of the release site are 32° 19.563' North latitude and 103° 30.334' West longitude. The property affected by the release is owned by the United States Department of the Interior - Bureau of Land Management (BLM). Please reference Figure 1 for a "Site Location Map".

On October 29, 2006, Southern Union discovered a release had occurred on the A-14 pipeline. Failure of a section of six-inch (6") low-pressure pipeline resulted in the release of approximately ninety (90) Mcf of natural gas and seven barrels (7 bbls) of crude oil. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office on November 18, 2006. The "Release Notification and Corrective Action Form" (Form C-141) indicated the release affected approximately one thousand square feet (1,000 ft²) of pasture land. General photographs of the release site are provided as Appendix A. The Form C-141 is provided as Appendix E.

Between December 22, 2006, and February 8, 2007, remediation activities were conducted at the release site by an environmental contractor that is no longer affiliated with the site. Analytical documentation suggests that at least a portion of the excavation was advanced to twenty-six and one-half (26.5') below ground surface (bgs). Confirmation soil samples collected from the floor and sidewalls of the excavation were not analyzed for concentrations of chloride. The previously excavated area was approximately fifty feet (50') in length, twenty feet (20') in width, and up to twenty-six and one-half feet (26.5') in depth. Table 1 summarizes the "Historical Concentrations of Benzene, BTEX, TPH & Chloride in Soil".

On June 22, 2012, Basin assumed remediation responsibilities at the A-14 6" Line Historical Release Site.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 7, Township 23 South, Range 34 East. An NMOCD representative indicated the depth to groundwater is approximately three hundred and twenty-nine feet (329') bgs on the initial C-141. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

A search of the NMWRRS database indicated there are no water wells within one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

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

NMOCD guidelines indicate the A-14 6" Line Historical Release Site has an initial ranking score of zero (0) points. 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 xylene (BTEX) – 50 mg/Kg (ppm)
- Total petroleum hydrocarbons (TPH) – 5,000 mg/Kg (ppm)

The New Mexico Administrative Code (NMAC) does not currently specify a remediation level for chloride concentrations in soil. Chloride remediation levels are set by the NMOCD on a site-specific basis.

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On December 19, 2012, Basin responded to the A-14 6" Historical Release Site. A drilling rig was dispatched to the location in an effort to collect discrete soil samples from the floor of the historical excavation at twenty-seven feet (27') bgs. Soil boring SB-1 was advanced in the northern portion of the previously excavated area. During the advancement of the soil bore, four (4) soil samples (SB-1 @ 5', SB-1 @ 15', SB-1 @ 25' and SB-1 @ 27') were collected and submitted to Xenco Laboratories Inc., of Odessa, Texas, for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 10.3 mg/Kg for soil sample SB-1 @ 25' to 67.4 mg/Kg for soil sample SB-1 @ 15'. Soil samples SB-1 @ 15' and SB-1 @ 27' were also analyzed for TPH concentrations which were determined to be less than the laboratory method detection limit (MDL) for both samples. Soil sample SB-1 @ 27' was also analyzed for BTEX concentrations, which were determined to be less than the laboratory MDL for each constituent. Table 2 summarizes the "Concentrations of Benzene, BTEX, TPH & Chloride in Soil" from recent remediation activities. Soil sample locations are depicted in Figure 2, "Site & Sample Location Map". Soil boring logs are provided as Appendix B. Laboratory analytical reports are provided as Appendix C.

Soil boring SB-2 was advanced in the southern portion of the previously excavated area. During the advancement of the soil bore, four (4) soil samples (SB-2 @ 5', SB-2 @ 15', SB-2 @ 25' and SB-2 @ 27') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 43.3 mg/Kg for soil sample SB-2 @ 25' to 185 mg/Kg for soil sample SB-2 @ 15'. Soil samples SB-2 @ 15' and SB-2 @ 27' were also analyzed for TPH concentrations, which were determined to be less than the laboratory MDL for both samples. Soil sample SB-2 @ 27' was also analyzed for BTEX concentrations, which were determined to be less than the laboratory MDL for each constituent.

On December 21, 2012, Basin excavated a series of test trenches in an effort to collect discrete sidewall soil samples for analysis of chloride and TPH concentrations. During the advancement of the test trenches, soil exhibiting chloride concentrations of 2,500 mg/Kg was encountered. An additional series of delineation trenches were advanced to the north, south, east and west of the area field tests suggested contained the highest concentration of chloride. During the advancement of the delineation trenches, thirteen (13) soil samples (North Sidewall, West Sidewall, South Trench #1, South Trench #2, South Trench #2 @ 14', South Trench #3, South

Trench #4, West Trench #1, West Trench #2, West Trench #3, East Trench #1, East Trench #2 and East Trench #3) were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 7.17 mg/Kg for soil sample North Sidewall to 2,580 mg/Kg for soil sample South Trench #3. Each of the soil samples exhibited chloride concentrations less than 1,000 mg/Kg with the exception of South Trench #2, South Trench #3 and West Trench #1.

Beginning December 31, 2012, excavation activities commenced at the location. The area defined by soil samples South Trench #2, South Trench #3 and West Trench #1 was excavated to approximately ten feet (10') bgs. The excavation sidewalls were advanced until field tests suggested chloride concentrations were less than NMOCD regulatory standards.

On January 3, 2013, six (6) soil samples (Floor, West Wall, North Wall, South Wall, East Wall and East Floor) were collected from the excavation floor and sidewalls and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX concentrations were less than the appropriate laboratory MDL for each of the submitted soil samples. TPH concentrations were less than the appropriate laboratory MDL for each of the submitted samples, with the exception of soil sample North Wall, which had a concentration of 98.0 mg/Kg. Chloride concentrations ranged from 19.6 mg/Kg for soil sample East Floor to 655 mg/Kg for soil sample North Wall. BTEX, TPH and chloride concentrations were below NMOCD regulatory standards in each of the submitted soil samples, but further delineation would be required in the areas represented by soil samples North Wall, South Trench #2 and South Trench #4.

On January 17, 2012, upon receiving laboratory analytical results from the latest soil sampling event, Basin revisited the remediation site in an effort to fully delineate the areas exhibiting chloride concentrations above 250 mg/Kg. A delineation trench was advanced off of the northern sidewall in the area represented by soil sample North Wall. During the advancement of the delineation trench, two (2) soil samples (North Wall #2 @ 4' and North Wall #2 @ 8') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated the chloride concentration was 4.38 mg/Kg for soil sample North Wall #2 @ 4' and 2.42 mg/Kg for soil sample North Wall #2 @ 8'.

A delineation trench was advanced approximately ten feet (10') to the southeast of soil sample South Trench #4. During the advancement of the delineation trench, two (2) soil samples (South Trench #5 @ 4' and South Trench #5 @ 8') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated the chloride concentration was 14.5 mg/Kg for South Trench #5 @ 4' and 5.26 mg/Kg for South Trench #5 @ 8'.

An additional delineation trench (West Floor Trench) was advanced in the floor of the excavation in the area represented by soil samples South Trench #2, South Trench #3 and Floor. The delineation trench was advanced to approximately eighteen feet (18') bgs. During the advancement of the delineation trench, two (2) soil samples (West Floor Trench @ 16' and West Floor Trench @ 18') were collected and submitted to laboratory for analysis of chloride concentrations. Laboratory analytical results indicated the chloride concentration was 701 mg/Kg for West Floor Trench @ 16' and 255 mg/Kg for West Floor Trench @ 18'. Soil sample West Floor Trench @ 18' was also analyzed for TPH concentrations, which were determined to be less

than the laboratory MDL. Based on laboratory analytical results, it was determined that vertical delineation had been achieved.

Between January 9 and 15, 2012, approximately five hundred and twenty cubic yards (520 yd³) of impacted material was hauled to Sundance Services, Inc. (NMOCD Permit # NM-01-003) for disposal. The final dimensions of the excavation were approximately forty-eight feet (48') in length, thirty feet (30') in width and ten feet (10') in depth.

On January 25, 2012, upon receiving NMOCD approval, the excavation was backfilled with locally purchased, non-impacted soil. Backfill was compacted in lifts and contoured to match the surrounding topography. The site will be reseeded at a time more conducive to germination.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Xenco Laboratories, Inc., of Odessa, Texas, for BTEX, TPH, and/or chloride analyses using the methods described below:

- BTEX concentrations in accordance with EPA Method SW-846 8021b
- TPH concentrations in accordance with modified EPA Method SW-846 8015M
- Chloride concentrations in accordance with EPA Method 300.1

4.2 Decontamination of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

4.3 Laboratory Protocol

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

5.0 SITE CLOSURE REQUEST

Confirmation soil samples collected from the floor and sidewalls of the A-14 6" Line excavation were analyzed by an NMOCD-approved laboratory, which determined concentrations of benzene, BTEX, TPH and chloride were less than the regulatory remediation action levels established for the site. Based on these laboratory analytical results, Basin recommends Southern Union provide the NMOCD Hobbs District Office and the BLM a copy of this *Remediation Summary & Site Closure Request* and request the NMOCD grant site closure to the A-14 6" Line Historical release site.

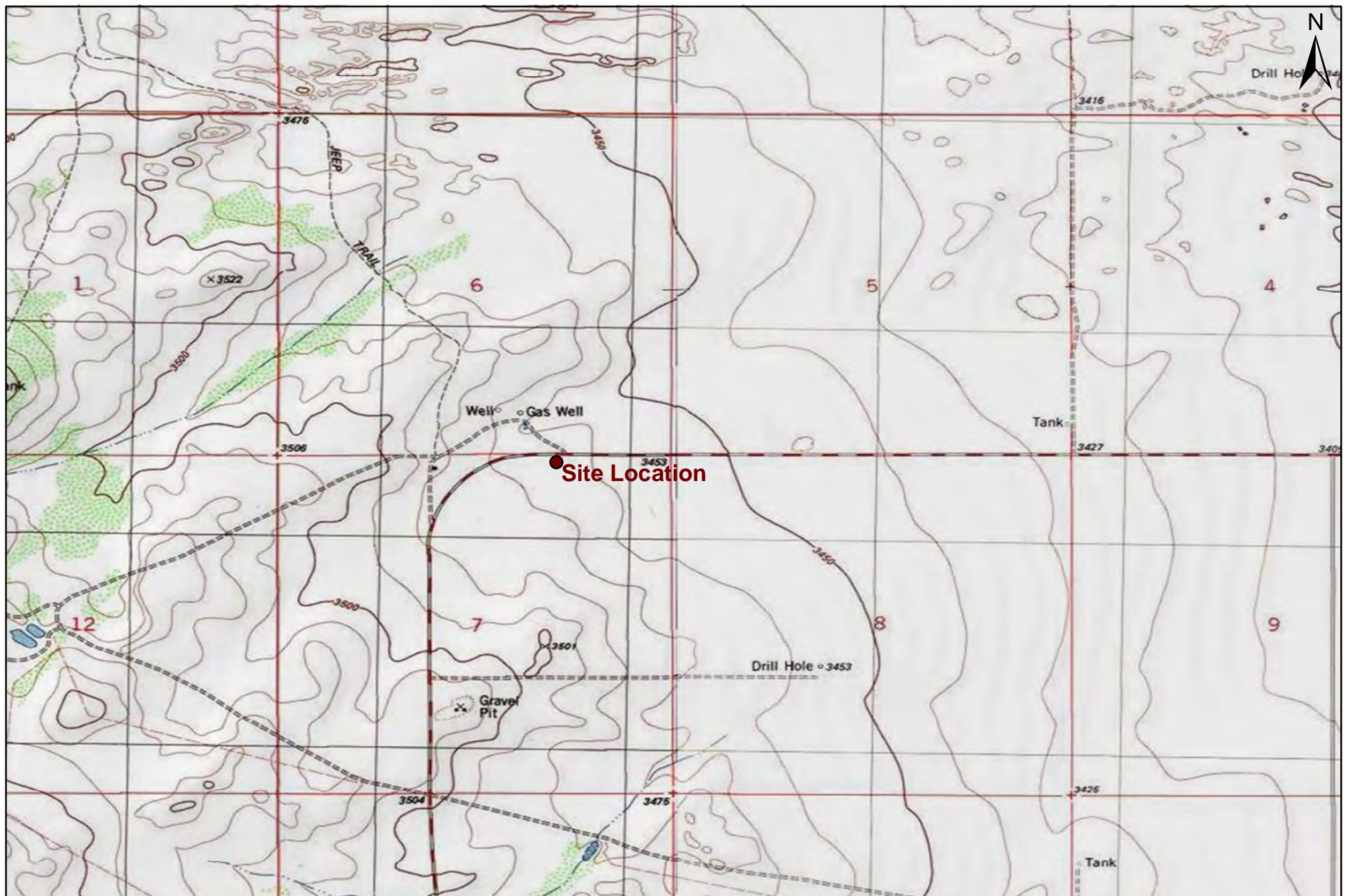
6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin has not conducted an independent examination of the facts contained in referenced materials and statements. Basin has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Southern Union Gas Services. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and/or Southern Union Gas Services.

7.0 DISTRIBUTION:

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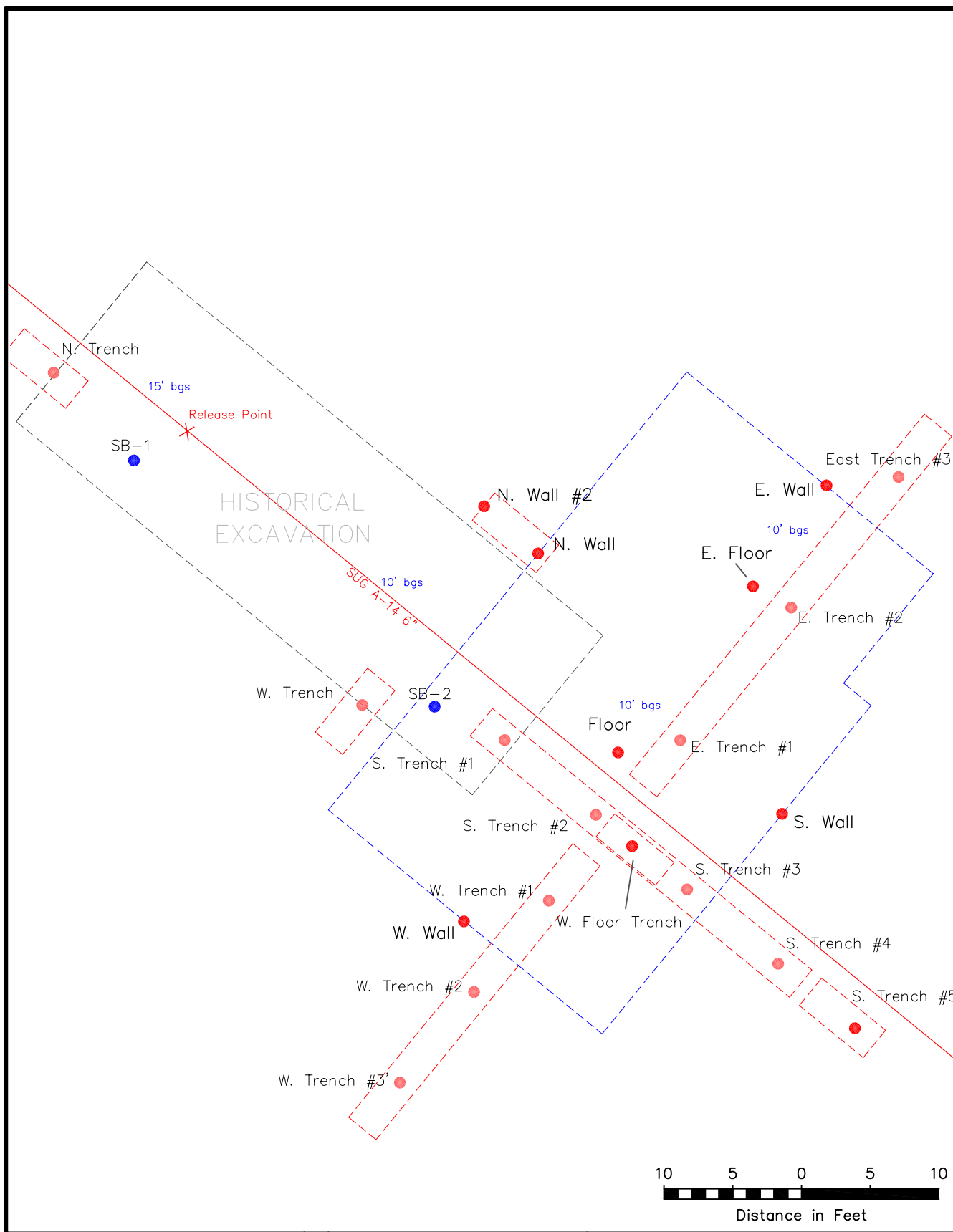
1,000 500 0 1,000 2,000

 Distance in Feet

Figure 1
Site Location Map
 Southern Union Gas Services
 A-14 6" Line Historical
 Lea County, New Mexico
 NMOCD Reference #: 1RP-1127



Basin Environmental Service Technologies, LLC
 3100 Plains Hwy.
 Lovington, NM 88260

Drawn By: BJA	Checked By: JWL
October 17, 2012	Scale: 1" = 2000'



LEGEND:

- Initial Excavation
- Pipeline
- Fence
- Sample Location
- Historic Excavation
- Delineation Trench
- Current Excavation
- Soil Boring

Figure 2
Site & Sample Location Map
Southern Union Gas Services
A-14 6" Line (RP-1127)
Lea County, NM

Basin Environmental Services

Scale: 1" = 10'	Drawn By: JWL	Prepared By: BRB
November 2, 2012		

TABLE 1

HISTORICAL CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES
A-14 6" LINE
HISTORICAL RELEASE SITE
LEA COUNTY, NEW MEXICO
NMOCD REF# 1RP-1127

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TOTAL TPH	EPA: 300
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	C ₆ -C ₂₈ (mg/Kg)	CHLORIDE (mg/Kg)
PR @ 7' #3 A	7'	12/22/2006	N/A	0.0152	0.243	0.140	2.98	3.378	1,680	2,750	76	4,506	-
PR @ 9'	9'	12/22/2006	N/A	0.317	6.42	3.39	14.01	24.137	7,990	7,410	273	15,700	-
SM #1 of 2	N/A	12/22/2006	N/A	-	-	-	-	-	-	-	-	-	5,420
SM #2 of 2	N/A	12/22/2006	N/A	-	-	-	-	-	-	-	-	-	5,530
NW- Comp.	N/A	12/22/2006	N/A	-	-	-	-	-	267	555	39	861	-
WW- Comp.	N/A	12/22/2006	N/A	-	-	-	-	-	2,000	3,450	65	5,510	-
EW- Comp.	N/A	12/22/2006	N/A	-	-	-	-	-	260	855	53	1,170	-
B- Comp.	N/A	12/22/2006	N/A	-	-	-	-	-	7,000	7,070	55	14,100	-
SP-1 Comp.	N/A	12/22/2006	Stockpiled	-	-	-	-	-	659	2,110	102	2,870	-
SP-2 Comp.	N/A	12/22/2006	Stockpiled	-	-	-	-	-	479	1,630	69.8	2,180	-
PR @ 15'	15'	1/3/2007	N/A	0.897	14.3	4.25	118.8	138.25	4,880	4,360	100	9,340	437
PR-Comp	N/A	1/3/2007	N/A	-	-	-	-	-	4,110	4,500	103	8,710	-
PR @ 18'	18'	1/10/2007	N/A	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	17.8	68.7	<10.0	86.5	-
NE 1/4B @ 18'4"	18' 4"	1/29/2007	N/A	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	-
SW 1/4 B Comp. @ 18', 18' 4", 18' 9"	N/A	1/29/2007	N/A	-	-	-	-	-	748	1,290	52.8	2,090	-
SW 1/4 B @ 19'10"	19' 10"	1/29/2007	N/A	-	-	-	-	-	2,280	3,380	112	5,770	-
SP-1 Comp.	N/A	2/6/2007	Stockpiled	-	-	-	-	-	194	639	31.5	864	-
SP-2 Comp.	N/A	2/6/2007	Stockpiled	-	-	-	-	-	290	894	34.0	1,220	-
SP-3 Comp.	N/A	2/6/2007	Stockpiled	-	-	-	-	-	211	1,080	38.0	1,330	-
SP-4 Comp.	N/A	2/6/2007	Stockpiled	-	-	-	-	-	183	1,140	41.4	1,360	-
SP-5 Comp.	N/A	2/6/2007	Stockpiled	-	-	-	-	-	133	834	37.0	1,000	-
SP-6 Comp.	N/A	2/6/2007	Stockpiled	-	-	-	-	-	316	1,660	65.9	2,040	-
SP-7 Comp.	N/A	2/6/2007	Stockpiled	-	-	-	-	-	267	1,290	33.0	1,590	-
SP-8 Comp.	N/A	2/6/2007	Stockpiled	-	-	-	-	-	198	1,130	46.2	1,370	-
SP-9 Comp.	N/A	2/6/2007	Stockpiled	-	-	-	-	-	235	1,110	43.9	1,390	-
SP-10 Comp.	N/A	2/6/2007	Stockpiled	<0.0250	0.0820	0.0590	2.89	3.03	760	2,080	55	2,890	-
S/W 1/4 @ 26.5'	26.5'	2/8/2007	N/A	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	-
NMOCD Standard				10				50				5,000	1,000

- = Not analyzed.

TABLE 2

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES
A-14 6" LINE
HISTORICAL RELEASE SITE
LEA COUNTY, NEW MEXICO
NMOCD REF# 1RP-1127

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TOTAL TPH C ₆ -C ₂₈ (mg/Kg)	CHLORIDE (mg/Kg)
SB-1 @ 5'	5'	12/19/2012	In-Situ	-	-	-	-	-	-	-	-	-	17.0
SB-1 @ 15'	15'	12/19/2012	In-Situ	-	-	-	-	-	<15.5	<15.5	<15.5	<15.5	67.4
SB-1 @ 25'	25'	12/19/2012	In-Situ	-	-	-	-	-	-	-	-	-	10.3
SB-1 @ 27'	27'	12/19/2012	In-Situ	<0.00102	<0.00205	<0.00102	<0.00205	<0.00205	<15.4	<15.4	<15.4	<15.4	11.2
SB-2 @ 5'	5'	12/19/2012	In-Situ	-	-	-	-	-	-	-	-	-	145
SB-2 @ 15'	15'	12/19/2012	In-Situ	-	-	-	-	-	<17.6	<17.6	<17.6	<17.6	185
SB-2 @ 25'	25'	12/19/2012	In-Situ	-	-	-	-	-	-	-	-	-	43.3
SB-2 @ 27'	27'	12/19/2012	In-Situ	<0.00101	<0.00203	<0.00101	<0.00203	<0.00203	<15.1	<15.1	<15.1	<15.1	54.4
North Sidewall	8'	12/21/2012	In-Situ	-	-	-	-	-	<19.2	<19.2	<19.2	<19.2	7.17
West Sidewall	8'	12/21/2012	In-Situ	-	-	-	-	-	<19.6	<19.6	<19.6	<19.6	7.48
South Trench #1	8'	12/21/2012	Excavated	-	-	-	-	-	<18.0	80.3	<18.0	80.3	191
South Trench #2	8'	12/21/2012	Excavated	-	-	-	-	-	-	-	-	-	1,930
South Trench #2 @ 14'	14'	12/21/2012	In-Situ	-	-	-	-	-	-	-	-	-	414
South Trench #3	8'	12/21/2012	Excavated	-	-	-	-	-	-	-	-	-	2,580
South Trench #4	8'	12/21/2012	In-Situ	-	-	-	-	-	-	-	-	-	392
West Trench #1	8'	12/21/2012	Excavated	-	-	-	-	-	-	-	-	-	1,400
West Trench #2	8'	12/21/2012	In-Situ	-	-	-	-	-	-	-	-	-	358
West Trench #3	8'	12/21/2012	In-Situ	-	-	-	-	-	-	-	-	-	226
East Trench #1	8'	12/21/2012	Excavated	-	-	-	-	-	-	-	-	-	644
East Trench #2	8'	12/21/2012	Excavated	-	-	-	-	-	-	-	-	-	588
East Trench #3	8'	12/21/2012	In-Situ	-	-	-	-	-	-	-	-	-	128
Floor	10'	1/3/2013	In-Situ	<0.00120	<0.00241	<0.00120	<0.00241	<0.00241	<17.9	<17.9	<17.9	<17.9	263
West Wall	8'	1/3/2013	In-Situ	<0.00107	<0.00215	<0.00107	<0.00215	<0.00215	<16.1	<16.1	<16.1	<16.1	167
North Wall	8'	1/3/2013	In-Situ	<0.00111	<0.00223	<0.00111	<0.00223	<0.00223	<16.7	98.0	<16.7	98.0	655
South Wall	8'	1/3/2013	In-Situ	<0.00125	<0.00250	<0.00125	<0.00250	<0.00250	<18.7	<18.7	<18.7	<18.7	233
East Wall	8'	1/3/2013	In-Situ	<0.00106	<0.00211	<0.00106	<0.00211	<0.00211	<15.8	<15.8	<15.8	<15.8	72.5
East Floor	8'	1/3/2013	In-Situ	<0.00104	<0.00209	<0.00104	<0.00209	<0.00209	<15.7	<15.7	<15.7	<15.7	19.6
Stockpile	N/A	1/3/2013	Disposed	-	-	-	-	-	-	-	-	-	710
West Floor Trench @ 16'	16'	1/17/2013	In-Situ	-	-	-	-	-	-	-	-	-	701
West Floor Trench @ 18'	18'	1/17/2013	In-Situ	-	-	-	-	-	<17.9	<17.9	<17.9	<17.9	255
North Wall #2 @ 4'	4'	1/17/2013	In-Situ	-	-	-	-	-	-	-	-	-	4.38
North Wall #2 @ 8'	8'	1/17/2013	In-Situ	-	-	-	-	-	-	-	-	-	2.42
South Trench #5 @ 4'	4'	1/17/2013	In-Situ	-	-	-	-	-	-	-	-	-	14.5
South Trench #5 @ 8'	8'	1/17/2013	In-Situ	-	-	-	-	-	-	-	-	-	5.26
NMOCD Standard				10				50				5,000	1,000



Photograph of advancement of soil bores and collection of core sample at the A-14 6" Line Historical Release Site.



Photograph of delineation activities at the A-14 6" Line Historical Release Site.



Photograph of delineation activities at the A-14 6" Line Historical Release Site.



Photograph of the completed excavation at the A-14 6" Line Historical Release Site.



Photograph of the completed excavation at the A-14 6" Line Historical Release Site.



Photograph of the collection of soil sample North Wall #2 at the A-14 6" Line Historical Release Site.

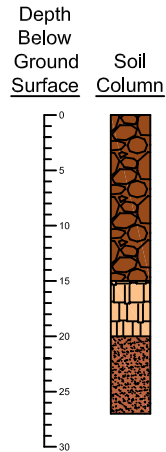


Photograph of backfilling activities at the A-14 6" Line Historical Release Site.



Post-Remediation photograph of the A-14 6" Line Historical Release Site.

Soil Boring SB-1



Soil Description

0' - 15' - Backfill

15' - 20' - Medium Hard Caliche

20' - 27' - Tan Red Silty Sand

Boring SB-1

Date Drilled December 19, 2012
 Thickness of Bentonite Seal 25'
 Depth of Exploratory Boring 27' bgs
 Depth to Groundwater N/A
 Ground Water Elevation N/A

▼ Indicates the PSH level measured on N/A
 ▼ Indicates the groundwater level measured on N/A
 ○ Indicates samples selected for Laboratory Analysis.

Completion Notes

- 1.) The soil boring was advanced on date using air rotary drilling techniques.
- 2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Soil Boring SB-1

Southern Union Gas Services
A-14 6" Line
Lea County, New Mexico
NMOCD Reference #: 1RP-1127

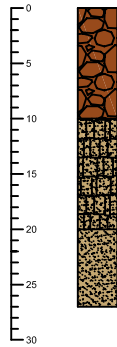
Basin Environmental Service Technologies, LLC
 3100 Plains Hwy.
 Lovington, NM 88260

Prep By: JWL	Checked By: BJA
January 3, 2013	

Soil Boring SB-2

Depth
Below
Ground
Surface

Soil
Column



Soil Description

0' - 10' - Backfill

10' - 20' - Tan Silty Sand & Caliche

20' - 27' - Tan Silty Sand

Boring SB-2

Date Drilled December 19, 2012
Thickness of Bentonite Seal 25'
Depth of Exploratory Boring 27' bgs
Depth to Groundwater N/A
Ground Water Elevation N/A

- ▼ Indicates the PSH level measured on N/A
▼ Indicates the groundwater level measured on N/A
○ Indicates samples selected for Laboratory Analysis.

Completion Notes

- 1.) The soil boring was advanced on date using air rotary drilling techniques.
- 2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Soil Boring SB-2

Southern Union Gas Services
A-14 6" Line
Lea County, New Mexico
NMOCD Reference #: 1RP-1127

Basin Environmental Service Technologies, LLC
3100 Plains Hwy.
Lovington, NM 88260

Prep By: JWL	Checked By: BJA
January 3, 2013	



Analytical Report

Prepared for:

Tony Savoie

Southern Union Gas Services- Jal

P.O. Box 1226

Jal, NM 88252

Project: A-14 6 inch

Project Number: 2006-054 North Leg

Location: Site #3

Lab Order Number: 6L22012

Report Date: 12/31/06

Southern Union Gas Services- Jal
P.O. Box 1226
Jal NM, 88252

Project: A-14 6 inch
Project Number: 2006-054 North Leg
Project Manager: Tony Savoie

Fax: 505-395-2326

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PR@ 7' #3- A	6L22012-01	Soil	12/22/06 13:00	12-22-2006 15:50
PR@ 9'	6L22012-02	Soil	12/22/06 13:00	12-22-2006 15:50
SM #1 of 2	6L22012-03	Soil	12/22/06 13:00	12-22-2006 15:50
SM #2 of 2	6L22012-04	Soil	12/22/06 13:00	12-22-2006 15:50
NW- Comp.	6L22012-05	Soil	12/22/06 13:00	12-22-2006 15:50
WW- Comp.	6L22012-06	Soil	12/22/06 13:00	12-22-2006 15:50
EW- Comp.	6L22012-07	Soil	12/22/06 13:00	12-22-2006 15:50
B- Comp.	6L22012-08	Soil	12/22/06 13:00	12-22-2006 15:50
SP-1- Comp.	6L22012-09	Soil	12/22/06 13:00	12-22-2006 15:50
SP-2- Comp.	6L22012-10	Soil	12/22/06 13:00	12-22-2006 15:50

Southern Union Gas Services- Jal
P.O. Box 1226
Jal NM, 88252

Project: A-14 6 inch
Project Number: 2006-054 North Leg
Project Manager: Tony Savoie

Fax: 505-395-2326

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PR@ 7' #3- A (6L22012-01) Soil									
Benzene	J [0.0152]	0.0250	mg/kg dry	25	EL62807	12/27/06	12/28/06	EPA 8021B	J
Toluene	0.243	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.140	0.0250	"	"	"	"	"	"	
Xylene (p/m)	1.74	0.0250	"	"	"	"	"	"	
Xylene (o)	1.24	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		128 %	80-120		"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		206 %	80-120		"	"	"	"	S-04
Carbon Ranges C6-C12	1680	10.0	mg/kg dry	1	EL62218	12/22/06	12/23/06	EPA 8015M	
Carbon Ranges C12-C28	2750	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	76.0	10.0	"	"	"	"	"	"	
Total Hydrocarbons	4510	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		164 %	70-130		"	"	"	"	S-04
<i>Surrogate: 1-Chlorooctadecane</i>		140 %	70-130		"	"	"	"	S-04
PR@ 9' (6L22012-02) Soil									
Benzene	0.317	0.0250	mg/kg dry	25	EL62807	12/27/06	12/28/06	EPA 8021B	
Toluene	6.42	0.0250	"	"	"	"	"	"	
Ethylbenzene	3.39	0.0250	"	"	"	"	"	"	
Xylene (p/m)	32.5	0.0250	"	"	"	"	"	"	
Xylene (o)	9.43	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		635 %	80-120		"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		378 %	80-120		"	"	"	"	S-04
Carbon Ranges C6-C12	7990	50.0	mg/kg dry	5	EL62218	12/22/06	12/27/06	EPA 8015M	
Carbon Ranges C12-C28	7410	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	273	50.0	"	"	"	"	"	"	
Total Hydrocarbons	15700	50.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		70.0 %	70-130		"	"	"	"	S-06
<i>Surrogate: 1-Chlorooctadecane</i>		45.2 %	70-130		"	"	"	"	S-06
NW- Comp. (6L22012-05) Soil									
Carbon Ranges C6-C12	267	10.0	mg/kg dry	1	EL62218	12/22/06	12/23/06	EPA 8015M	
Carbon Ranges C12-C28	555	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	39.4	10.0	"	"	"	"	"	"	
Total Hydrocarbons	861	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		103 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		114 %	70-130		"	"	"	"	

Environmental Lab of Texas

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

Page 2 of 11

Southern Union Gas Services- Jal
P.O. Box 1226
Jal NM, 88252

Project: A-14 6 inch
Project Number: 2006-054 North Leg
Project Manager: Tony Savoie

Fax: 505-395-2326

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WW- Comp. (6L22012-06) Soil									
Carbon Ranges C6-C12	2000	10.0	mg/kg dry	1	EL62218	12/22/06	12/23/06	EPA 8015M	
Carbon Ranges C12-C28	3450	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	64.7	10.0	"	"	"	"	"	"	
Total Hydrocarbons	5510	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		198 %	70-130		"	"	"	"	S-04
Surrogate: 1-Chlorooctadecane		182 %	70-130		"	"	"	"	S-04
EW- Comp. (6L22012-07) Soil									
Carbon Ranges C6-C12	260	10.0	mg/kg dry	1	EL62218	12/22/06	12/23/06	EPA 8015M	
Carbon Ranges C12-C28	855	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	53.4	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1170	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		104 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		114 %	70-130		"	"	"	"	
B- Comp. (6L22012-08) Soil									
Carbon Ranges C6-C12	7000	10.0	mg/kg dry	1	EL62218	12/22/06	12/23/06	EPA 8015M	
Carbon Ranges C12-C28	7070	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	55.2	10.0	"	"	"	"	"	"	
Total Hydrocarbons	14100	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		254 %	70-130		"	"	"	"	S-04
Surrogate: 1-Chlorooctadecane		224 %	70-130		"	"	"	"	S-04
SP-1- Comp. (6L22012-09) Soil									
Carbon Ranges C6-C12	659	10.0	mg/kg dry	1	EL62701	12/22/06	12/23/06	EPA 8015M	
Carbon Ranges C12-C28	2110	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	102	10.0	"	"	"	"	"	"	
Total Hydrocarbons	2870	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		155 %	70-130		"	"	"	"	S-04
Surrogate: 1-Chlorooctadecane		164 %	70-130		"	"	"	"	S-04

Southern Union Gas Services- Jal
P.O. Box 1226
Jal NM, 88252

Project: A-14 6 inch
Project Number: 2006-054 North Leg
Project Manager: Tony Savoie

Fax: 505-395-2326

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-2- Comp. (6L22012-10) Soil									
Carbon Ranges C6-C12	479	10.0	mg/kg dry	1	EL62701	12/22/06	12/23/06	EPA 8015M	
Carbon Ranges C12-C28	1630	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	69.8	10.0	"	"	"	"	"	"	
Total Hydrocarbons	2180	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		137 %	70-130		"	"	"	"	<i>S-04</i>
<i>Surrogate: 1-Chlorooctadecane</i>		154 %	70-130		"	"	"	"	<i>S-04</i>



Analytical Report

Prepared for:

Tony Savoie

Southern Union Gas Services- Jal

P.O. Box 1226

Jal, NM 88252

Project: A-14 6 Inch North Leg

Project Number: 2006-054 Site #3

Location: Delaware Basin Road

Lab Order Number: 7A03006

Report Date: 01/08/07

DR @ 15'
+
Comp.
Sampled 1/3/07
R.C. 1/3/07

Southern Union Gas Services- Jal
P.O. Box 1226
Jal NM, 88252

Project: A-14 6 Inch North Leg
Project Number: 2006-054
Project Manager: Tony Savoie

Fax: 505-395-2326

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PR @ 15'	7A03006-01	Soil	01/03/07 09:30	01-03-2007 13:37
PR-Comp	7A03006-02	Soil	01/03/07 09:30	01-03-2007 13:37

Southern Union Gas Services- Jal
P.O. Box 1226
Jal NM, 88252

Project: A-14 6 Inch North Leg
Project Number: 2006-054
Project Manager: Tony Savoie

Fax: 505-395-2326

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PR @ 15' (7A03006-01) Soil									
Benzene	0.897	0.200	mg/kg dry	200	EA70401	01/04/07	01/04/07	EPA 8021B	
Toluene	14.3	0.200	"	"	"	"	"	"	
Ethylbenzene	4.25	0.200	"	"	"	"	"	"	
Xylene (p/m)	95.1	0.200	"	"	"	"	"	"	
Xylene (o)	23.7	0.200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		111 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		146 %	80-120		"	"	"	"	S-04
Carbon Ranges C6-C12	4880	10.0	mg/kg dry	1	EA70303	01/03/07	01/03/07	EPA 8015M	
Carbon Ranges C12-C28	4360	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	100	10.0	"	"	"	"	"	"	
Total Hydrocarbons	9340	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		258 %	70-130		"	"	"	"	S-04
<i>Surrogate: 1-Chlorooctadecane</i>		148 %	70-130		"	"	"	"	S-04
PR-Comp (7A03006-02) Soil									
Carbon Ranges C6-C12	4110	10.0	mg/kg dry	1	EA70303	01/03/07	01/03/07	EPA 8015M	
Carbon Ranges C12-C28	4500	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	103	10.0	"	"	"	"	"	"	
Total Hydrocarbons	8710	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		272 %	70-130		"	"	"	"	S-04
<i>Surrogate: 1-Chlorooctadecane</i>		176 %	70-130		"	"	"	"	S-04

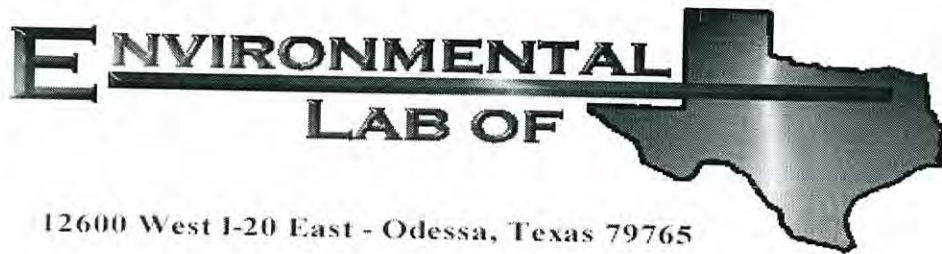
Southern Union Gas Services- Jal
P.O. Box 1226
Jal NM, 88252

Project: A-14 6 Inch North Leg
Project Number: 2006-054
Project Manager: Tony Savoie

Fax: 505-395-2326

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PR @ 15' (7A03006-01) Soil									
Chloride	437	20.0	mg/kg	40	EA70309	01/03/07	01/03/07	EPA 300.0	
% Moisture	8.4	0.1	%	1	EA70406	01/03/07	01/04/07	% calculation	
PR-Comp (7A03006-02) Soil									
% Moisture	9.4	0.1	%	1	EA70406	01/03/07	01/04/07	% calculation	



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Tony Savoie

Southern Union Gas Services- Jal

P.O. Box 1226

Jal, NM 88252

Project: A-14 6" North Leg Site #3

Project Number: 2006-054

Location: Delaware Basin Road

Lab Order Number: 7A10015

Report Date: 01/15/07

Southern Union Gas Services- Jal
P.O. Box 1226
Jal NM, 88252

Project: A-14 6" North Leg Site #3
Project Number: 2006-054
Project Manager: Tony Savoie

Fax: 505-395-2326

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P.R. @ 18'	7A10015-01	Soil	01/10/07 11:00	01-10-2007 14:10

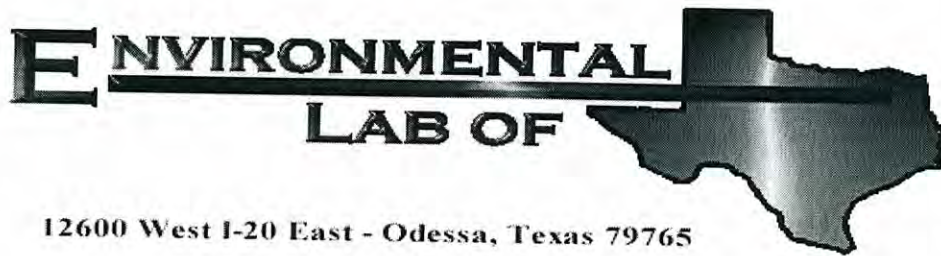
Southern Union Gas Services- Jal
P.O. Box 1226
Jal NM, 88252

Project: A-14 6" North Leg Site #3
Project Number: 2006-054
Project Manager: Tony Savoie

Fax: 505-395-2326

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P.R. @ 18' (7A10015-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EA71014	01/10/07	01/12/07	EPA 8021B	
Toluene	J [0.0143]	0.0250	"	"	"	"	"	"	J
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.0312	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	17.8	10.0	mg/kg dry	1	EA71007	01/10/07	01/13/07	EPA 8015M	
Carbon Ranges C12-C28	68.7	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	86.5	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		108 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		119 %	70-130		"	"	"	"	



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Tony Savoie

Southern Union Gas Services- Jal

P.O. Box 1226

Jal, NM 88252

Project: A-14 6" North Leg

Project Number: 2006-054

Location: Site #3

Lab Order Number: 7A29025

Report Date: 02/05/07

Southern Union Gas Services- Jal
P.O. Box 1226
Jal NM, 88252

Project: A-14 6" North Leg
Project Number: 2006-054
Project Manager: Tony Savoie

Fax: 505-395-2326

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NE 1/4 B@ 18'4"	7A29025-01	Soil	01/29/07 11:30	01-29-2007 15:07
SW 1/4 B Comp.@ 18', 18' 4", 18' 9"	7A29025-02	Soil	01/29/07 11:30	01-29-2007 15:07
SW 1/4 B@ 19'10"	7A29025-03	Soil	01/29/07 11:30	01-29-2007 15:07

Southern Union Gas Services- Jal
P.O. Box 1226
Jal NM, 88252

Project: A-14 6" North Leg
Project Number: 2006-054
Project Manager: Tony Savoie

Fax: 505-395-2326

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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NE 1/4 B@ 18'4" (7A29025-01) Soil

Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EA73008	01/30/07	02/02/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		88.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		88.2 %	70-130		"	"	"	"	

SW 1/4 B Comp.@ 18', 18' 4", 18' 9" (7A29025-02) Soil

Carbon Ranges C6-C12	748	10.0	mg/kg dry	1	EA73008	01/30/07	02/02/07	EPA 8015M	
Carbon Ranges C12-C28	1290	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	52.8	10.0	"	"	"	"	"	"	
Total Hydrocarbons	2090	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		138 %	70-130		"	"	"	"	S-04
Surrogate: 1-Chlorooctadecane		117 %	70-130		"	"	"	"	

SW 1/4 B@ 19'10" (7A29025-03) Soil

Carbon Ranges C6-C12	2280	10.0	mg/kg dry	1	EA73008	01/30/07	02/02/07	EPA 8015M	
Carbon Ranges C12-C28	3380	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	112	10.0	"	"	"	"	"	"	
Total Hydrocarbons	5770	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		228 %	70-130		"	"	"	"	S-04
Surrogate: 1-Chlorooctadecane		167 %	70-130		"	"	"	"	S-04

Environmental Lab of Texas
A Xenco Laboratories Company

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

Page 2 of 7

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Tony Savoir

Company Name

Company Address:

City/State/Zip:

Telephone No:

Sampler Signature:

Fax No:

e-mail:

Report Format:

☐ TDDD

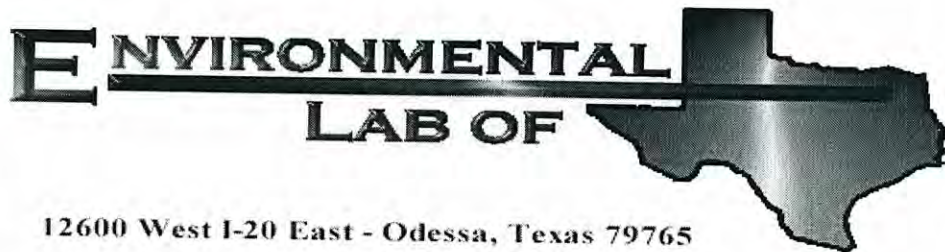
☐

(lab use only)

ORDER #:

Apr glass

[illegible]



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Tony Savoie

Southern Union Gas Services- Jal

P.O. Box 1226

Jal, NM 88252

Project: A-14 6" North Leg Site #3

Project Number: 2006-054

Location: Site 3

Lab Order Number: 7B06012

Report Date: 02/12/07

Southern Union Gas Services- Jal
P.O. Box 1226
Jal NM, 88252

Project: A-14 6" North Leg Site #3
Project Number: 2006-054
Project Manager: Tony Savoie

Fax: 505-395-2326

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP 1 Comp.	7B06012-01	Soil	02/06/07 11:00	02-06-2007 14:30
SP 2 Comp.	7B06012-02	Soil	02/06/07 11:00	02-06-2007 14:30
SP 3 Comp.	7B06012-03	Soil	02/06/07 11:00	02-06-2007 14:30
SP 4 Comp.	7B06012-04	Soil	02/06/07 11:00	02-06-2007 14:30
SP 5 Comp.	7B06012-05	Soil	02/06/07 11:00	02-06-2007 14:30
SP 6 Comp.	7B06012-06	Soil	02/06/07 11:00	02-06-2007 14:30
SP 7 Comp.	7B06012-07	Soil	02/06/07 11:00	02-06-2007 14:30
SP 8 Comp.	7B06012-08	Soil	02/06/07 11:00	02-06-2007 14:30
SP 9 Comp.	7B06012-09	Soil	02/06/07 11:00	02-06-2007 14:30
SP 10 Comp.	7B06012-10	Soil	02/06/07 11:00	02-06-2007 14:30

Southern Union Gas Services- Jal
P.O. Box 1226
Jal NM, 88252

Project: A-14 6" North Leg Site #3
Project Number: 2006-054
Project Manager: Tony Savoie

Fax: 505-395-2326

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP 1 Comp. (7B06012-01) Soil									
Carbon Ranges C6-C12	194	10.0	mg/kg dry	1	EB70807	02/08/07	02/11/07	EPA 8015M	
Carbon Ranges C12-C28	639	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	31.5	10.0	"	"	"	"	"	"	
Total Hydrocarbons	864	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		80.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		73.8 %	70-130		"	"	"	"	
SP 2 Comp. (7B06012-02) Soil									
Carbon Ranges C6-C12	290	10.0	mg/kg dry	1	EB70807	02/08/07	02/11/07	EPA 8015M	
Carbon Ranges C12-C28	894	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	34.0	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1220	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		85.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		71.2 %	70-130		"	"	"	"	
SP 3 Comp. (7B06012-03) Soil									
Carbon Ranges C6-C12	211	10.0	mg/kg dry	1	EB70807	02/08/07	02/11/07	EPA 8015M	
Carbon Ranges C12-C28	1080	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	38.0	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1330	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		89.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		83.6 %	70-130		"	"	"	"	
SP 4 Comp. (7B06012-04) Soil									
Carbon Ranges C6-C12	183	10.0	mg/kg dry	1	EB70807	02/08/07	02/11/07	EPA 8015M	
Carbon Ranges C12-C28	1140	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	41.4	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1360	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		84.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		82.2 %	70-130		"	"	"	"	

Southern Union Gas Services- Jal
P.O. Box 1226
Jal NM, 88252

Project: A-14 6" North Leg Site #3
Project Number: 2006-054
Project Manager: Tony Savoie

Fax: 505-395-2326

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP 5 Comp. (7B06012-05) Soil									
Carbon Ranges C6-C12	133	10.0	mg/kg dry	1	EB70807	02/08/07	02/11/07	EPA 8015M	
Carbon Ranges C12-C28	834	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	37.0	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1000	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		80.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		76.2 %	70-130		"	"	"	"	
SP 6 Comp. (7B06012-06) Soil									
Carbon Ranges C6-C12	316	10.0	mg/kg dry	1	EB70807	02/08/07	02/11/07	EPA 8015M	
Carbon Ranges C12-C28	1660	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	65.9	10.0	"	"	"	"	"	"	
Total Hydrocarbons	2040	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		97.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		93.8 %	70-130		"	"	"	"	
SP 7 Comp. (7B06012-07) Soil									
Carbon Ranges C6-C12	267	10.0	mg/kg dry	1	EB70807	02/08/07	02/11/07	EPA 8015M	
Carbon Ranges C12-C28	1290	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	33.0	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1590	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		93.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		87.0 %	70-130		"	"	"	"	
SP 8 Comp. (7B06012-08) Soil									
Carbon Ranges C6-C12	198	10.0	mg/kg dry	1	EB70807	02/08/07	02/11/07	EPA 8015M	
Carbon Ranges C12-C28	1130	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	46.2	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1370	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		87.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		83.8 %	70-130		"	"	"	"	

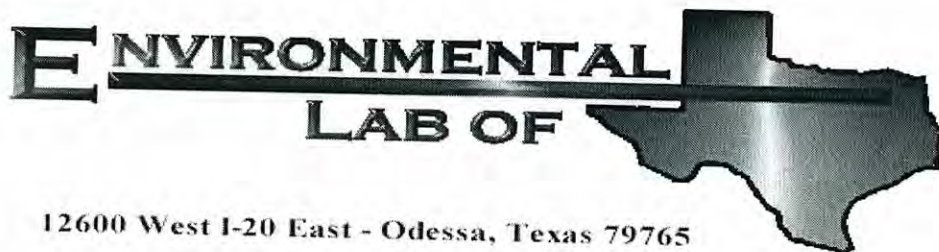
Southern Union Gas Services- Jal
P.O. Box 1226
Jal NM, 88252

Project: A-14 6" North Leg Site #3
Project Number: 2006-054
Project Manager: Tony Savoie

Fax: 505-395-2326

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP 9 Comp. (7B06012-09) Soil									
Carbon Ranges C6-C12	235	10.0	mg/kg dry	1	EB70807	02/08/07	02/11/07	EPA 8015M	
Carbon Ranges C12-C28	1110	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	43.9	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1390	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		94.6 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		85.4 %	70-130		"	"	"	"	
SP 10 Comp. (7B06012-10) Soil									
Carbon Ranges C6-C12	760	10.0	mg/kg dry	1	EB70807	02/08/07	02/11/07	EPA 8015M	
Carbon Ranges C12-C28	2080	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	54.7	10.0	"	"	"	"	"	"	
Total Hydrocarbons	2890	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		122 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		103 %	70-130		"	"	"	"	



12600 West I-20 East - Odessa, Texas 79765

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Analytical Report

Prepared for:

Tony Savoie
Southern Union Gas Services- Jal
P.O. Box 1226
Jal, NM 88252

Project: A-14 6" North Leg

Project Number: 2006-054

Location: Site #3

Lab Order Number: 7B09018

Report Date: 02/14/07

Southern Union Gas Services- Jal
P.O. Box 1226
Jal NM, 88252

Project: A-14 6" North Leg
Project Number: 2006-054
Project Manager: Tony Savoie

Fax: 505-395-2326

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW 1/4 @ 26.5'	7B09018-01	Soil	02/08/07 00:00	02-09-2007 14:15

Southern Union Gas Services- Jal
P.O. Box 1226
Jal NM, 88252

Project: A-14 6" North Leg
Project Number: 2006-054
Project Manager: Tony Savoie

Fax: 505-395-2326

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW 1/4 @ 26.5' (7B09018-01) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB71006	02/10/07	02/13/07	EPA 8015M	
Carbon Ranges C12-C28	J [6.07]	10.0	"	"	"	"	"	"	J
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		102 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		102 %	70-130		"	"	"	"	

Environmental Lab of Texas

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

Page 2 of 7

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Analytical Report 454748

for

Southern Union Gas Services- Monahans

Project Manager: Joel Lowry

A-14 6-Inch Line

RP-1127

31-DEC-12

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)



31-DEC-12

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

Reference: XENCO Report No(s): **454748**
A-14 6-Inch Line
Project Address: Lea County, NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 454748. 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. 454748 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,

Nicholas Straccione

Project Manager

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Sample Cross Reference 454748



Southern Union Gas Services- Monahans, Monahans, TX

A-14 6-Inch Line

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-1 @ 25'	S	12-19-12 08:40		454748-001
SB-1 @ 27'	S	12-19-12 08:50		454748-002
SB-2 @ 25'	S	12-19-12 09:40		454748-003
SB-2 @ 27'	S	12-19-12 09:50		454748-004



CASE NARRATIVE

Client Name: Southern Union Gas Services- Monahans

Project Name: A-14 6-Inch Line



Project ID: RP-1127

Work Order Number(s): 454748

Report Date: 31-DEC-12

Date Received: 12/24/2012

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 454748

Southern Union Gas Services- Monahans, Monahans, TX



Project Id: RP-1127

Contact: Joel Lowry

Project Name: A-14 6-Inch Line

Date Received in Lab: Mon Dec-24-12 03:00 pm

Report Date: 31-DEC-12

Project Location: Lea County, NM

Project Manager: Nicholas Straccione

<i>Analysis Requested</i>	<i>Lab Id:</i>	454748-001	454748-002	454748-003	454748-004		
	<i>Field Id:</i>	SB-1 @ 25'	SB-1 @ 27'	SB-2 @ 25'	SB-2 @ 27'		
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	Dec-19-12 08:40	Dec-19-12 08:50	Dec-19-12 09:40	Dec-19-12 09:50		
BTEX by EPA 8021B	<i>Extracted:</i>		Dec-28-12 16:00		Dec-28-12 16:00		
	<i>Analyzed:</i>		Dec-28-12 17:53		Dec-28-12 19:16		
	<i>Units/RL:</i>		mg/kg RL		mg/kg RL		
Benzene			ND 0.00102		ND 0.00101		
Toluene			ND 0.00205		ND 0.00203		
Ethylbenzene			ND 0.00102		ND 0.00101		
m,p-Xylenes			ND 0.00205		ND 0.00203		
o-Xylene			ND 0.00102		ND 0.00101		
Total Xylenes			ND 0.00102		ND 0.00101		
Total BTEX			ND 0.00102		ND 0.00101		
Inorganic Anions by EPA 300/300.1 SUB: E871002	<i>Extracted:</i>	Dec-27-12 13:52	Dec-27-12 14:09	Dec-27-12 14:26	Dec-27-12 14:44		
	<i>Analyzed:</i>	Dec-27-12 13:52	Dec-27-12 14:09	Dec-27-12 14:26	Dec-27-12 14:44		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		10.3 1.02	11.2 1.02	43.3 1.02	54.4 1.01		
Percent Moisture SUB: E871002	<i>Extracted:</i>						
	<i>Analyzed:</i>	Dec-27-12 10:55	Dec-27-12 10:55	Dec-27-12 10:55	Dec-27-12 10:55		
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL		
Percent Moisture		2.24 1.00	2.21 1.00	1.68 1.00	1.28 1.00		
TPH By SW8015 Mod	<i>Extracted:</i>	Dec-27-12 12:00	Dec-27-12 12:00	Dec-27-12 12:00	Dec-27-12 12:00		
	<i>Analyzed:</i>	Dec-27-12 20:13	Dec-27-12 20:40	Dec-27-12 21:06	Dec-27-12 21:33		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
C6-C12 Gasoline Range Hydrocarbons		ND 15.3	ND 15.4	ND 15.2	ND 15.1		
C12-C28 Diesel Range Hydrocarbons		ND 15.3	ND 15.4	ND 15.2	ND 15.1		
C28-C35 Oil Range Hydrocarbons		ND 15.3	ND 15.4	ND 15.2	ND 15.1		
Total TPH		ND 15.3	ND 15.4	ND 15.2	ND 15.1		

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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Nicholas Straccione
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.

* 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 **SQL** 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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 12600 West I-20 East, Odessa, TX 79765
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(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: A-14 6-Inch Line

Work Orders : 454748, 454748

Project ID: RP-1127

Lab Batch #: 903786

Sample: 454748-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/27/12 20:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	99.9	106	70-135	
o-Terphenyl	49.9	50.0	100	70-135	

Lab Batch #: 903786

Sample: 454748-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/27/12 20:40

SURROGATE RECOVERY 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	49.4	50.1	99	70-135	

Lab Batch #: 903786

Sample: 454748-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/27/12 21:06

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	99.9	102	70-135	
o-Terphenyl	48.9	50.0	98	70-135	

Lab Batch #: 903786

Sample: 454748-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/27/12 21:33

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	99.7	105	70-135	
o-Terphenyl	51.2	49.9	103	70-135	

Lab Batch #: 903888

Sample: 454748-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/28/12 17:53

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0264	0.0300	88	80-120	
4-Bromofluorobenzene	0.0247	0.0300	82	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.

Form 2 - Surrogate Recoveries

Project Name: A-14 6-Inch Line

Work Orders : 454748, 454748

Project ID: RP-1127

Lab Batch #: 903888

Sample: 454748-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/28/12 19:16		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0279	0.0300	93	80-120
4-Bromofluorobenzene		0.0243	0.0300	81	80-120

Lab Batch #: 903786

Sample: 631807-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/27/12 15:52		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		94.4	100	94	70-135
o-Terphenyl		44.7	50.1	89	70-135

Lab Batch #: 903888

Sample: 631865-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/28/12 17:37		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0250	0.0300	83	80-120
4-Bromofluorobenzene		0.0242	0.0300	81	80-120

Lab Batch #: 903786

Sample: 631807-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/27/12 14:57		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		91.1	100	91	70-135
o-Terphenyl		52.9	50.1	106	70-135

Lab Batch #: 903888

Sample: 631865-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/28/12 17:04		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0266	0.0300	89	80-120
4-Bromofluorobenzene		0.0309	0.0300	103	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.

Form 2 - Surrogate Recoveries

Project Name: A-14 6-Inch Line

Work Orders : 454748, 454748

Project ID: RP-1127

Lab Batch #: 903786

Sample: 631807-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 12/27/12 15:25

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.7	100	94	70-135	
o-Terphenyl	47.8	50.1	95	70-135	

Lab Batch #: 903888

Sample: 631865-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 12/28/12 17:20

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0294	0.0300	98	80-120	
4-Bromofluorobenzene	0.0331	0.0300	110	80-120	

Lab Batch #: 903786

Sample: 454643-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/27/12 16:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.9	100	85	70-135	
o-Terphenyl	49.3	50.1	98	70-135	

Lab Batch #: 903786

Sample: 454643-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/27/12 17:23

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.0	99.9	92	70-135	
o-Terphenyl	48.6	50.0	97	70-135	

Lab Batch #: 903888

Sample: 454748-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/28/12 18:26

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0331	0.0300	110	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	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: A-14 6-Inch Line

Work Order #: 454748, 454748

Analyst: KEB

Date Prepared: 12/28/2012

Project ID: RP-1127

Date Analyzed: 12/28/2012

Lab Batch ID: 903888

Sample: 631865-1-BKS

Batch #: 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											
Benzene	<0.00100	0.100	0.0769	77	0.0994	0.0830	84	8	70-130	35	
Toluene	<0.00201	0.100	0.0782	78	0.0994	0.0833	84	6	70-130	35	
Ethylbenzene	<0.00100	0.100	0.0777	78	0.0994	0.0866	87	11	71-129	35	
m,p-Xylenes	<0.00201	0.201	0.153	76	0.199	0.167	84	9	70-135	35	
o-Xylene	<0.00100	0.100	0.0792	79	0.0994	0.0870	88	9	71-133	35	

Analyst: RKO

Date Prepared: 12/27/2012

Date Analyzed: 12/27/2012

Lab Batch ID: 903747

Sample: 631776-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	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											
Chloride	<1.00	100	104	104	100	104	104	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: A-14 6-Inch Line

Work Order #: 454748, 454748

Analyst: KEB

Date Prepared: 12/27/2012

Project ID: RP-1127

Date Analyzed: 12/27/2012

Lab Batch ID: 903786

Sample: 631807-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	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											
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	1040	104	1000	1000	100	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	998	100	1000	966	97	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: A-14 6-Inch Line

Work Order #: 454748

Lab Batch #: 903747

Date Analyzed: 12/27/2012

QC- Sample ID: 454701-001 S

Reporting Units: mg/kg

Project ID: RP-1127

Analyst: RKO

Batch #: 1

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	49.9	135	178	95	80-120	

Lab Batch #: 903747

Date Analyzed: 12/27/2012

QC- Sample ID: 454749-004 S

Reporting Units: mg/kg

Date Prepared: 12/27/2012

Analyst: RKO

Batch #: 1

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	37.5	105	141	99	80-120	

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

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: A-14 6-Inch Line

Work Order # : 454748

Project ID: RP-1127

Lab Batch ID: 903786

QC- Sample ID: 454643-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 12/27/2012

Date Prepared: 12/27/2012

Analyst: KEB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<16.3	1090	1020	94	1090	1070	98	5	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<16.3	1090	1010	93	1090	1020	94	1	70-135	35	

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Project Name: A-14 6-Inch Line

Work Order #: 454748

Lab Batch #: 903714

Project ID: RP-1127

Date Analyzed: 12/27/2012 10:55

Date Prepared: 12/27/2012

Analyst: RKO

QC- Sample ID: 454749-003 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	8.80	8.64	2	20	

Lab Batch #: 903714

Date Analyzed: 12/27/2012 10:55

Date Prepared: 12/27/2012

Analyst: RKO

QC- Sample ID: 454754-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	5.70	5.68	0	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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Ben J. Arguijo; Joel Lowry

Project Name: A-14 6-Inch Line

Company Name Basin Environmental Service Technologies, LLC

Project #: (RP-1127)

Company Address: P.O. Box 301

Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260

PO #: Bill Southern Union Gas

Telephone No: (575)396-2378

Fax No: (575) 396-1429

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Paul Hansen

e-mail: rose.slade@sug.com, cyndi.inskeep@sug.com, pm@basinenv.com

[illegible]



Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 12/24/2012 03:00:00 PM

Work Order #: 454748

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.5
#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: _____

Date: 12/26/2012

Checklist reviewed by: _____

Date: 12/26/2012

Analytical Report 454911

for

Southern Union Gas Services- Monahans

Project Manager: Joel Lowry

A-14 6-Inch Line

(RP-1127)

07-JAN-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)



07-JAN-13

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

Reference: XENCO Report No(s): **454911**
A-14 6-Inch Line
Project Address: Lea County, NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 454911. 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. 454911 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,

Nicholas Straccione

Project Manager

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Sample Cross Reference 454911



Southern Union Gas Services- Monahans, Monahans, TX

A-14 6-Inch Line

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-1 @ 5'	S	12-19-12 08:30		454911-001
SB-1 @ 15'	S	12-19-12 08:35		454911-002
SB-2 @ 5'	S	12-19-12 09:30		454911-003
SB-2 @ 15'	S	12-19-12 09:35		454911-004



CASE NARRATIVE

Client Name: Southern Union Gas Services- Monahans
Project Name: A-14 6-Inch Line



Project ID: (RP-1127)
Work Order Number(s): 454911

Report Date: 07-JAN-13
Date Received: 12/31/2012

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 454911

Southern Union Gas Services- Monahans, Monahans, TX



Project Name: A-14 6-Inch Line

Project Id: (RP-1127)

Contact: Joel Lowry

Project Location: Lea County, NM

Date Received in Lab: Mon Dec-31-12 11:38 am

Report Date: 07-JAN-13

Project Manager: Nicholas Straccione

<i>Analysis Requested</i>	<i>Lab Id:</i>	454911-001	454911-002	454911-003	454911-004		
	<i>Field Id:</i>	SB-1 @ 5'	SB-1 @ 15'	SB-2 @ 5'	SB-2 @ 15'		
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	Dec-19-12 08:30	Dec-19-12 08:35	Dec-19-12 09:30	Dec-19-12 09:35		
Inorganic Anions by EPA 300/300.1 SUB: E871002	<i>Extracted:</i>	Jan-02-13 20:57	Jan-02-13 21:32	Jan-02-13 21:49	Jan-02-13 22:06		
	<i>Analyzed:</i>	Jan-02-13 20:57	Jan-02-13 21:32	Jan-02-13 21:49	Jan-02-13 22:06		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		17.0 0.991	67.4 0.996	145 1.00	185 0.980		
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Jan-02-13 10:25	Jan-02-13 10:25	Jan-02-13 10:25	Jan-02-13 10:25		
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL		
Percent Moisture		16.6 1.00	3.39 1.00	23.2 1.00	15.1 1.00		
TPH By SW8015 Mod	<i>Extracted:</i>		Jan-02-13 09:00		Jan-02-13 09:00		
	<i>Analyzed:</i>		Jan-02-13 17:00		Jan-02-13 17:30		
	<i>Units/RL:</i>		mg/kg RL		mg/kg RL		
C6-C12 Gasoline Range Hydrocarbons			ND 15.5		ND 17.6		
C12-C28 Diesel Range Hydrocarbons			ND 15.5		ND 17.6		
C28-C35 Oil Range Hydrocarbons			ND 15.5		ND 17.6		
Total TPH			ND 15.5		ND 17.6		

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



Nicholas Straccione
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.

* 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 **SQL** 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
 2505 North Falkenburg Rd, Tampa, FL 33619
 12600 West I-20 East, Odessa, TX 79765
 6017 Financial Drive, Norcross, GA 30071
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(281) 240-4200	(281) 240-4280
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(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: A-14 6-Inch Line

Work Orders : 454911,

Project ID: (RP-1127)

Lab Batch #: 904017

Sample: 454911-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 01/02/13 17:00		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		94.4	99.9	94	70-135
o-Terphenyl		45.2	50.0	90	70-135

Lab Batch #: 904017

Sample: 454911-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 01/02/13 17:30		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		86.1	99.5	87	70-135
o-Terphenyl		42.2	49.8	85	70-135

Lab Batch #: 904017

Sample: 631942-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 01/02/13 15:06		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		88.5	99.9	89	70-135
o-Terphenyl		42.4	50.0	85	70-135

Lab Batch #: 904017

Sample: 631942-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 01/02/13 14:07		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		86.6	100	87	70-135
o-Terphenyl		47.7	50.1	95	70-135

Lab Batch #: 904017

Sample: 631942-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 01/02/13 14:36		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		85.8	99.9	86	70-135
o-Terphenyl		44.6	50.0	89	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.



Form 2 - Surrogate Recoveries

Project Name: A-14 6-Inch Line

Work Orders : 454911,

Project ID: (RP-1127)

Lab Batch #: 904017

Sample: 454911-002 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/02/13 21:36

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.3	99.8	91	70-135	
o-Terphenyl	51.0	49.9	102	70-135	

Lab Batch #: 904017

Sample: 454911-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/02/13 22:02

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.8	99.7	86	70-135	
o-Terphenyl	48.2	49.9	97	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: A-14 6-Inch Line

Work Order #: 454911

Analyst: JOL

Date Prepared: 01/02/2013

Project ID: (RP-1127)

Date Analyzed: 01/02/2013

Lab Batch ID: 904013

Sample: 631941-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	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											
Chloride	<1.00	100	106	106	100	106	106	0	80-120	20	

Analyst: KEB

Date Prepared: 01/02/2013

Date Analyzed: 01/02/2013

Lab Batch ID: 904017

Sample: 631942-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	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											
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	1010	101	999	983	98	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	983	98	999	954	95	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: A-14 6-Inch Line

Work Order #: 454911

Lab Batch #: 904013

Date Analyzed: 01/02/2013

QC- Sample ID: 454910-001 S

Reporting Units: mg/kg

Date Prepared: 01/02/2013

Batch #: 1

Project ID: (RP-1127)

Analyst: JOL

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	7.17	124	136	104	80-120	

Lab Batch #: 904013

Date Analyzed: 01/02/2013

QC- Sample ID: 454911-001 S

Reporting Units: mg/kg

Date Prepared: 01/02/2013

Batch #: 1

Analyst: JOL

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	17.0	99.1	117	101	80-120	

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

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: A-14 6-Inch Line

Work Order # : 454911

Project ID: (RP-1127)

Lab Batch ID: 904017

QC- Sample ID: 454911-002 S

Batch #: 1 Matrix: Soil

Date Analyzed: 01/02/2013

Date Prepared: 01/02/2013

Analyst: KEB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<15.5	1030	1090	106	1030	1060	103	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.5	1030	1090	106	1030	1050	102	4	70-135	35	

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Project Name: A-14 6-Inch Line

Work Order #: 454911

Lab Batch #: 904018

Project ID: (RP-1127)

Date Analyzed: 01/02/2013 10:25

Date Prepared: 01/02/2013

Analyst: WRU

QC- Sample ID: 454910-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	21.8	21.9	0	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

Xenco Laboratories

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Joel Lowry

Project Name: A-14 6-Inch Line

Company Name: Basin Environmental Service Technologies, LLC

Project #: (RP-1127)

Company Address: P.O. Box 301

Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260

PO #: _____

Telephone No: (575)396-2378

Fax No: (575) 396-1429

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Joel Lowry

e-mail: rose.slade@sug.com, cyndi.inskeep@sug.com, pm@basinenv.com

(lab use only)
ORDER #: 454911

Sample Signature: <i>Jill Young</i>																																								
(lab use only)																																								
ORDER #: 454911																																								
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers										Matrix		Analyze For:										RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY									
								Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW = Drinking Water SL = Sludge	GW = groundwater S = Soil/Sol	NP = Non-Potable Specify Other	TPH: 418.1	8015B	8015M	TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	CHLORIDES	Total Dissolved Solids						
01	SB-1 @ 5'			12/19/2012	830		1	X																																
02	SB-1 @ 15'			12/19/2012	835		1												X																					
03	SB-2 @ 5'			12/19/2012	930		1																																	
04	SB-2 @ 15'			12/19/2012	935		1												X																					

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
<u>Joel Lowry</u>	<u>12/28/12</u>	<u>9:26</u>	<u>Steve Butler</u>	<u>12-28-12</u>	<u>0926</u>
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			<u>Shaunell Smith</u>	<u>12/31/12</u>	<u>11:38</u>

Laboratory Comments:

Sample Containers Intact?	<u>Y</u>	N
VOCs Free of Headspace?	<u>Y</u>	N
Labels on container(s)	<u>Y</u>	N
Custody seals on container(s)	<u>Y</u>	N
Custody seals on cooler(s)	<u>Y</u>	N
Sample Hand Delivered by Sampler/Client Rep.?	<u>Y</u>	N
by Courier?	<u>Y</u>	N
UPS	<u>Y</u>	N
DHL	<u>Y</u>	N
FedEx	<u>Y</u>	N
Lone Star	<u>Y</u>	N
Temperature Upon Receipt:	<u>1.4 °C</u>	



Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 12/31/2012 11:38:00 AM

Work Order #: 454911

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	1.4
#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: _____

Date: _____

Checklist reviewed by: _____

Date: _____

Analytical Report 454910,454913

for

Southern Union Gas Services- Monahans

Project Manager: Joel Lowry

A-14 6-Inch Line

(RP-1127)

09-JAN-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)



09-JAN-13

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

Reference: XENCO Report No(s): **454910,454913**
A-14 6-Inch Line
Project Address: Lea County, NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 454910,454913. 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. 454910 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,

Nicholas Straccione

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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Southern Union Gas Services- Monahans, Monahans, TX

A-14 6-Inch Line

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
North Sidewall	S	12-21-12 09:40		454910-001
West Sidewall	S	12-21-12 10:00		454910-002
South Trench #1	S	12-21-12 10:30		454910-003
South Trench #2	S	12-21-12 10:50		454910-004
South Trench #2 @ 14	S	12-21-12 14:00		454910-005
South Trench #3	S	12-21-12 11:10		454910-006
South Trench #4	S	12-21-12 11:20		454910-007
West Trench #1	S	12-21-12 11:30		454910-008
West Trench #2	S	12-21-12 11:50		454910-009
West Trench #3	S	12-21-12 12:10		454910-010
East Trench #1	S	12-21-12 12:50		454913-001
East Trench #2	S	12-21-12 13:10		454913-002
East Trench #3	S	12-21-12 13:30		454913-003



CASE NARRATIVE

Client Name: Southern Union Gas Services- Monahans

Project Name: A-14 6-Inch Line



Project ID: (RP-1127)
Work Order Number(s): 454910,454913

Report Date: 09-JAN-13
Date Received: 12/31/2012

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-904135 Inorganic Anions by EPA 300/300.1
E300

Batch 904135, Chloride recovered below QC limits in the Matrix Spike.

Samples affected are: 454910-006, -008, -004.

The Laboratory Control Sample for Chloride is within laboratory Control Limits

Certificate of Analysis Summary 454910,454913

Southern Union Gas Services- Monahans, Monahans, TX



Project Id: (RP-1127)

Contact: Joel Lowry

Project Name: A-14 6-Inch Line

Date Received in Lab: Mon Dec-31-12 11:37 am

Report Date: 09-JAN-13

Project Location: Lea County, NM

Project Manager: Nicholas Straccione

<i>Analysis Requested</i>	<i>Lab Id:</i>	454910-001	454910-002	454910-003	454910-004	454910-005	454910-006
	<i>Field Id:</i>	North Sidewall	West Sidewall	South Trench #1	South Trench #2	South Trench #2 @ 14	South Trench #3
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Dec-21-12 09:40	Dec-21-12 10:00	Dec-21-12 10:30	Dec-21-12 10:50	Dec-21-12 14:00	Dec-21-12 11:10
Inorganic Anions by EPA 300/300.1 SUB: E871002	<i>Extracted:</i>	Jan-02-13 17:11	Jan-02-13 17:45	Jan-02-13 18:03	Jan-02-13 18:20	Jan-02-13 18:38	Jan-02-13 18:55
	<i>Analyzed:</i>	Jan-02-13 17:11	Jan-02-13 17:45	Jan-02-13 18:03	Jan-02-13 18:20	Jan-02-13 18:38	Jan-02-13 18:55
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		7.17 1.24	7.48 1.28	191 1.18	1930 D 5.46	414 1.05	2580 D 5.39
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Jan-02-13 10:25	Jan-02-13 10:25	Jan-02-13 10:25	Jan-02-13 10:25	Jan-02-13 10:25	Jan-02-13 10:25
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		21.8 1.00	23.9 1.00	16.9 1.00	9.71 1.00	5.39 1.00	7.19 1.00
TPH By SW8015 Mod	<i>Extracted:</i>	Jan-02-13 09:00	Jan-02-13 09:00	Jan-02-13 09:00			
	<i>Analyzed:</i>	Jan-02-13 15:35	Jan-02-13 16:01	Jan-02-13 16:31			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
C6-C12 Gasoline Range Hydrocarbons		ND 19.2	ND 19.6	ND 18.0			
C12-C28 Diesel Range Hydrocarbons		ND 19.2	ND 19.6	80.3 18.0			
C28-C35 Oil Range Hydrocarbons		ND 19.2	ND 19.6	ND 18.0			
Total TPH		ND 19.2	ND 19.6	80.3 18.0			

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.

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Nicholas Straccione
Project Manager

Certificate of Analysis Summary 454910,454913

Southern Union Gas Services- Monahans, Monahans, TX



Project Id: (RP-1127)

Contact: Joel Lowry

Project Name: A-14 6-Inch Line

Date Received in Lab: Mon Dec-31-12 11:37 am

Report Date: 09-JAN-13

Project Location: Lea County, NM

Project Manager: Nicholas Straccione

<i>Analysis Requested</i>	<i>Lab Id:</i>	454910-007	454910-008	454910-009	454910-010		
	<i>Field Id:</i>	South Trench #4	West Trench #1	West Trench #2	West Trench #3		
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	Dec-21-12 11:20	Dec-21-12 11:30	Dec-21-12 11:50	Dec-21-12 12:10		
Inorganic Anions by EPA 300/300.1 SUB: E871002	<i>Extracted:</i>	Jan-02-13 19:47	Jan-02-13 20:05	Jan-02-13 20:22	Jan-02-13 20:39		
	<i>Analyzed:</i>	Jan-02-13 19:47	Jan-02-13 20:05	Jan-02-13 20:22	Jan-02-13 20:39		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		392 1.03	1400 D 5.38	358 1.04	226 1.02		
Percent Moisture	<i>Extracted:</i>	Jan-02-13 10:25	Jan-02-13 10:25	Jan-02-13 10:25	Jan-02-13 10:25		
	<i>Analyzed:</i>	Jan-02-13 10:25	Jan-02-13 10:25	Jan-02-13 10:25	Jan-02-13 10:25		
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL		
Percent Moisture		2.99 1.00	7.14 1.00	4.11 1.00	3.94 1.00		

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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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Nicholas Straccione
Project Manager

Certificate of Analysis Summary 454910,454913

Southern Union Gas Services- Monahans, Monahans, TX



Project Id: (RP-1127)

Contact: Joel Lowry

Project Name: A-14 6-Inch Line

Date Received in Lab: Mon Dec-31-12 11:37 am

Report Date: 09-JAN-13

Project Location: Lea County, NM

Project Manager: Nicholas Straccione

<i>Analysis Requested</i>	<i>Lab Id:</i>	454913-001	454913-002	454913-003			
	<i>Field Id:</i>	East Trench #1	East Trench #2	East Trench #3			
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	Dec-21-12 12:50	Dec-21-12 13:10	Dec-21-12 13:30			
Inorganic Anions by EPA 300/300.1 SUB: E871002	<i>Extracted:</i>	Jan-02-13 23:16	Jan-02-13 23:33	Jan-02-13 23:51			
	<i>Analyzed:</i>	Jan-02-13 23:16	Jan-02-13 23:33	Jan-02-13 23:51			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		644 0.973	588 0.974	128 0.998			
Percent Moisture	<i>Extracted:</i>	Jan-02-13 11:00	Jan-02-13 11:00	Jan-02-13 11:00			
	<i>Analyzed:</i>	Jan-02-13 11:00	Jan-02-13 11:00	Jan-02-13 11:00			
	<i>Units/RL:</i>	% RL	% RL	% RL			
Percent Moisture		6.99 1.00	5.48 1.00	19.6 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.

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Nicholas Straccione
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.

* 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 **SQL** 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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 9701 Harry Hines Blvd , Dallas, TX 75220
 5332 Blackberry Drive, San Antonio TX 78238
 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

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: A-14 6-Inch Line

Work Orders : 454910, 454910,454913

Project ID: (RP-1127)

Lab Batch #: 904017

Sample: 454910-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 01/02/13 15:35		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		90.0	100	90	70-135
o-Terphenyl		43.6	50.1	87	70-135

Lab Batch #: 904017

Sample: 454910-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 01/02/13 16:01		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		87.4	99.5	88	70-135
o-Terphenyl		43.0	49.8	86	70-135

Lab Batch #: 904017

Sample: 454910-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 01/02/13 16:31		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		85.3	99.6	86	70-135
o-Terphenyl		41.8	49.8	84	70-135

Lab Batch #: 904017

Sample: 631942-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 01/02/13 15:06		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		88.5	99.9	89	70-135
o-Terphenyl		42.4	50.0	85	70-135

Lab Batch #: 904017

Sample: 631942-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 01/02/13 14:07		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		86.6	100	87	70-135
o-Terphenyl		47.7	50.1	95	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.

Form 2 - Surrogate Recoveries

Project Name: A-14 6-Inch Line

Work Orders : 454910, 454910,454913

Project ID: (RP-1127)

Lab Batch #: 904017

Sample: 631942-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/02/13 14:36

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.8	99.9	86	70-135	
o-Terphenyl	44.6	50.0	89	70-135	

Lab Batch #: 904017

Sample: 454911-002 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/02/13 21:36

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.3	99.8	91	70-135	
o-Terphenyl	51.0	49.9	102	70-135	

Lab Batch #: 904017

Sample: 454911-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/02/13 22:02

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.8	99.7	86	70-135	
o-Terphenyl	48.2	49.9	97	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: A-14 6-Inch Line

Work Order #: 454910, 454910, 454913

Analyst: JOL

Date Prepared: 01/02/2013

Project ID: (RP-1127)

Date Analyzed: 01/02/2013

Lab Batch ID: 904013

Sample: 631941-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	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	<1.00	100	106	106	100	106	106	0	80-120	20	

Analyst: JOL

Date Prepared: 01/03/2013

Date Analyzed: 01/03/2013

Lab Batch ID: 904135

Sample: 632018-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	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	<1.00	100	105	105	100	105	105	0	80-120	20	

Analyst: KEB

Date Prepared: 01/02/2013

Date Analyzed: 01/02/2013

Lab Batch ID: 904017

Sample: 631942-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	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
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	1010	101	999	983	98	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	983	98	999	954	95	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

Project Name: A-14 6-Inch Line

Work Order #: 454910

Lab Batch #: 904013

Date Analyzed: 01/02/2013

QC- Sample ID: 454910-001 S

Reporting Units: mg/kg

Date Prepared: 01/02/2013

Batch #: 1

Project ID: (RP-1127)

Analyst: JOL

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	7.17	124	136	104	80-120	

Lab Batch #: 904013

Date Analyzed: 01/02/2013

QC- Sample ID: 454911-001 S

Reporting Units: mg/kg

Date Prepared: 01/02/2013

Batch #: 1

Analyst: JOL

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	17.0	99.1	117	101	80-120	

Lab Batch #: 904135

Date Analyzed: 01/03/2013

QC- Sample ID: 454862-001 S

Reporting Units: mg/kg

Date Prepared: 01/03/2013

Batch #: 1

Analyst: JOL

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	1180	134	1280	75	80-120	X

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

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: A-14 6-Inch Line

Work Order # : 454910

Project ID: (RP-1127)

Lab Batch ID: 904017

QC- Sample ID: 454911-002 S

Batch #: 1 Matrix: Soil

Date Analyzed: 01/02/2013

Date Prepared: 01/02/2013

Analyst: KEB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<15.5	1030	1090	106	1030	1060	103	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.5	1030	1090	106	1030	1050	102	4	70-135	35	

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Project Name: A-14 6-Inch Line

Work Order #: 454910

Lab Batch #: 904018

Project ID: (RP-1127)

Date Analyzed: 01/02/2013 10:25

Date Prepared: 01/02/2013

Analyst: WRU

QC- Sample ID: 454910-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	21.8	21.9	0	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

Xenco Laboratories

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Joel Lowry

Project Name: A-14 6-Inch Line

Company Name: Basin Environmental Service Technologies, LLC

Project #: (RP-1127)

Company Address: P.O. Box 301

Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260

PO #:

Telephone No: (575)396-2378

Fax No: (575) 396-1429

Report Format:



Standard



TRRP



NPDES

Sampler Signature: Joel Lowry

e-mail: rose.slade@sug.com, cyndi.inskeep@sug.com, pm@basinenv.com

(lab use only)
ORDER #: 454910

LAB # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers								Matrix		Analyze For:														RUSH TAT (pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
LAB # (lab use only)	ORDER #:								TCLP:	TOTAL:	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW = Drinking Water SL = Sludge GW = Groundwater S = Soil/Sediment NP = Non-Potable Specify Other	TPH: 418.1 8015B 8015M TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	CHLORIDES	Total Dissolved Solids																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

Special Instructions:

Relinquished by: <u>Joel Lowry</u>	Date: <u>12/28/12</u>	Time: <u>9:26</u>	Received by: <u>Steve Butler</u>	Date: <u>12-28-12</u>	Time: <u>0926</u>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by: <u>Shaunee Smith</u>	Date: <u>12/31/12</u>	Time: <u>11:37</u>

Laboratory Comments:

Sample Containers Intact?	<u>Y</u>	N
VOCs Free of Headspace?	<u>Y</u>	N
Labels on container(s)	<u>Y</u>	N
Custody seals on container(s)	<u>Y</u>	N
Custody seals on cooler(s)	<u>Y</u>	N
Sample Hand Delivered by Sampler/Client Rep.?	<u>Y</u>	N
by Courier:	<u>UPS</u>	DHL
Temperature Upon Receipt:	<u>1.4</u>	°C

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Joel Lowry

Project Name: A-14 6-Inch Line

Company Name Basin Environmental Service Technologies, LLC

Project #: (RP-1127)

Company Address: P.O. Box 301

Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260

PO #: _____

Telephone No: (575)396-2378

Fax No: (575) 396-1429

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Neil Jones

e-mail: rose.slade@sug.com, cyndi.inskeep@sug.com, pm@basinenv.com

(lab use only)

ORDER #: 454913

[illegible]

Special Instructions:

Relinquished by: <i>Joel Jowery</i>	Date <i>12/26/12</i>	Time <i>9:26</i>	Received by: <i>Steve Butler</i>	Date <i>12-28-12</i>	Time <i>0926</i>
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: <i>Shaunel Smith</i>	Date <i>12/31/12</i>	Time <i>1140</i>

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N
by Courier?	UPS	FedEx
	DHL	Lone Star
Temperature Upon Receipt:	1.4 °C	

Analytical Report 455231
for
Southern Union Gas Services- Monahans

Project Manager: Joel Lowry

A-14 6" Historical

RP-1127

10-JAN-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)



10-JAN-13

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

Reference: XENCO Report No(s): **455231**
A-14 6" Historical
Project Address: Lea County, NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 455231. 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. 455231 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,

Nicholas Straccione

Project Manager

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



Sample Cross Reference 455231



Southern Union Gas Services- Monahans, Monahans, TX

A-14 6" Historical

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Floor	S	01-03-13 10:20		455231-001
West Wall	S	01-03-13 12:00		455231-002
North Wall	S	01-03-13 13:10		455231-003
South Wall	S	01-03-13 13:45		455231-004
East Wall	S	01-07-13 09:00		455231-005
East Floor	S	01-07-13 09:15		455231-006
Stockpile	S	01-07-13 09:20		455231-007



CASE NARRATIVE

Client Name: Southern Union Gas Services- Monahans

Project Name: A-14 6" Historical



Project ID: RP-1127

Work Order Number(s): 455231

Report Date: 10-JAN-13

Date Received: 01/08/2013

Sample receipt non conformance and comments:

None

Sample receipt non conformance and comments per sample:

None

Analytical non conformance and comments:

*Batch: LBA-904350 Inorganic Anions by EPA 300/300.1
E300*

Batch 904350, Chloride recovered below QC limits in the Matrix Spike.

Samples affected are: 455231-001.

The Laboratory Control Sample for Chloride is within laboratory Control Limits

Batch: LBA-904408 BTEX by EPA 8021B

SW8021BM

Batch 904408, Ethylbenzene, Toluene, m,p-Xylenes RPD was outside QC limits.

Samples affected are: 455231-004

SW8021BM

Batch 904408, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Benzene recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 455231-004.

The Laboratory Control Sample for Toluene, m,p-Xylenes, Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

Certificate of Analysis Summary 455231

Southern Union Gas Services- Monahans, Monahans, TX



Project Id: RP-1127

Contact: Joel Lowry

Project Name: A-14 6" Historical

Date Received in Lab: Tue Jan-08-13 02:18 pm

Report Date: 10-JAN-13

Project Location: Lea County, NM

Project Manager: Nicholas Straccione

<i>Analysis Requested</i>	<i>Lab Id:</i>	455231-001	455231-002	455231-003	455231-004	455231-005	455231-006
	<i>Field Id:</i>	Floor	West Wall	North Wall	South Wall	East Wall	East Floor
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jan-03-13 10:20	Jan-03-13 12:00	Jan-03-13 13:10	Jan-03-13 13:45	Jan-07-13 09:00	Jan-07-13 09:15
BTEX by EPA 8021B	<i>Extracted:</i>	Jan-09-13 08:00	Jan-09-13 08:00	Jan-09-13 08:00	Jan-09-13 15:40	Jan-09-13 08:00	Jan-09-13 08:00
	<i>Analyzed:</i>	Jan-09-13 09:40	Jan-09-13 11:17	Jan-09-13 10:11	Jan-10-13 10:30	Jan-09-13 10:44	Jan-09-13 11:00
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		ND 0.00120	ND 0.00107	ND 0.00111	ND 0.00125	ND 0.00106	ND 0.00104
Toluene		ND 0.00241	ND 0.00215	ND 0.00223	ND 0.00250	ND 0.00211	ND 0.00209
Ethylbenzene		ND 0.00120	ND 0.00107	ND 0.00111	ND 0.00125	ND 0.00106	ND 0.00104
m,p-Xylenes		ND 0.00241	ND 0.00215	ND 0.00223	ND 0.00250	ND 0.00211	ND 0.00209
o-Xylene		ND 0.00120	ND 0.00107	ND 0.00111	ND 0.00125	ND 0.00106	ND 0.00104
Total Xylenes		ND 0.00120	ND 0.00107	ND 0.00111	ND 0.00125	ND 0.00106	ND 0.00104
Total BTEX		ND 0.00120	ND 0.00107	ND 0.00111	ND 0.00125	ND 0.00106	ND 0.00104
Inorganic Anions by EPA 300/300.1 SUB: E871002	<i>Extracted:</i>	Jan-09-13 14:45	Jan-09-13 15:37	Jan-09-13 15:55	Jan-09-13 16:12	Jan-09-13 16:29	Jan-09-13 16:47
	<i>Analyzed:</i>	Jan-09-13 14:45	Jan-09-13 15:37	Jan-09-13 15:55	Jan-09-13 16:12	Jan-09-13 16:29	Jan-09-13 16:47
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		263 1.18	167 1.06	655 1.12	233 1.25	72.5 1.06	19.6 1.05
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Jan-08-13 15:25	Jan-08-13 15:25	Jan-08-13 15:40	Jan-08-13 15:40	Jan-08-13 15:40	Jan-08-13 15:40
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		16.4 1.00	7.01 1.00	10.4 1.00	20.1 1.00	5.25 1.00	4.49 1.00
TPH By SW8015 Mod	<i>Extracted:</i>	Jan-08-13 14:45	Jan-08-13 14:45	Jan-08-13 14:45	Jan-08-13 14:45	Jan-08-13 14:45	Jan-08-13 14:45
	<i>Analyzed:</i>	Jan-08-13 17:49	Jan-08-13 18:48	Jan-08-13 19:17	Jan-08-13 19:46	Jan-08-13 20:14	Jan-08-13 20:42
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C12 Gasoline Range Hydrocarbons		ND 17.9	ND 16.1	ND 16.7	ND 18.7	ND 15.8	ND 15.7
C12-C28 Diesel Range Hydrocarbons		ND 17.9	ND 16.1	98.0 16.7	ND 18.7	ND 15.8	ND 15.7
C28-C35 Oil Range Hydrocarbons		ND 17.9	ND 16.1	ND 16.7	ND 18.7	ND 15.8	ND 15.7
Total TPH		ND 17.9	ND 16.1	98.0 16.7	ND 18.7	ND 15.8	ND 15.7

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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Nicholas Straccione
Project Manager



Certificate of Analysis Summary 455231

Southern Union Gas Services- Monahans, Monahans, TX



Project Id: RP-1127

Contact: Joel Lowry

Project Name: A-14 6" Historical

Date Received in Lab: Tue Jan-08-13 02:18 pm

Report Date: 10-JAN-13

Project Location: Lea County, NM

Project Manager: Nicholas Straccione

<i>Analysis Requested</i>	<i>Lab Id:</i>	455231-007					
	<i>Field Id:</i>	Stockpile					
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL					
	<i>Sampled:</i>	Jan-07-13 09:20					
Inorganic Anions by EPA 300/300.1 SUB: E871002	<i>Extracted:</i>	Jan-09-13 17:22					
	<i>Analyzed:</i>	Jan-09-13 17:22					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		710 1.10					
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Jan-08-13 14:50					
	<i>Units/RL:</i>	% RL					
Percent Moisture		8.72 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.

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Nicholas Straccione
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.

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

Form 2 - Surrogate Recoveries

Project Name: A-14 6" Historical

Work Orders : 455231,

Project ID: RP-1127

Lab Batch #: 904313

Sample: 455231-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/08/13 17:49

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.4	99.9	96	70-135	
o-Terphenyl	47.0	50.0	94	70-135	

Lab Batch #: 904313

Sample: 455231-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/08/13 18:48

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.6	100	94	70-135	
o-Terphenyl	45.3	50.0	91	70-135	

Lab Batch #: 904313

Sample: 455231-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/08/13 19:17

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.8	99.9	94	70-135	
o-Terphenyl	45.8	50.0	92	70-135	

Lab Batch #: 904313

Sample: 455231-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/08/13 19:46

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.7	99.5	93	70-135	
o-Terphenyl	45.6	49.8	92	70-135	

Lab Batch #: 904313

Sample: 455231-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/08/13 20:14

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.7	99.9	100	70-135	
o-Terphenyl	47.7	50.0	95	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.

Form 2 - Surrogate Recoveries

Project Name: A-14 6" Historical

Work Orders : 455231,

Project ID: RP-1127

Lab Batch #: 904313

Sample: 455231-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/08/13 20:42

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.0	100	93	70-135	
o-Terphenyl	44.8	50.0	90	70-135	

Lab Batch #: 904355

Sample: 455231-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/09/13 09:40

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0252	0.0300	84	80-120	
4-Bromofluorobenzene	0.0259	0.0300	86	80-120	

Lab Batch #: 904355

Sample: 455231-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/09/13 10:11

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0250	0.0300	83	80-120	
4-Bromofluorobenzene	0.0318	0.0300	106	80-120	

Lab Batch #: 904355

Sample: 455231-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/09/13 10:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0267	0.0300	89	80-120	
4-Bromofluorobenzene	0.0304	0.0300	101	80-120	

Lab Batch #: 904355

Sample: 455231-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/09/13 11:00

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0279	0.0300	93	80-120	
4-Bromofluorobenzene	0.0305	0.0300	102	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.

Form 2 - Surrogate Recoveries

Project Name: A-14 6" Historical

Work Orders : 455231,

Project ID: RP-1127

Lab Batch #: 904355

Sample: 455231-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/09/13 11:17

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0281	0.0300	94	80-120	
4-Bromofluorobenzene	0.0260	0.0300	87	80-120	

Lab Batch #: 904408

Sample: 455231-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/10/13 10:30

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0242	0.0300	81	80-120	
4-Bromofluorobenzene	0.0264	0.0300	88	80-120	

Lab Batch #: 904313

Sample: 632121-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/08/13 12:24

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.0	99.8	92	70-135	
o-Terphenyl	44.9	49.9	90	70-135	

Lab Batch #: 904355

Sample: 632171-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/09/13 09:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0305	0.0300	102	80-120	
4-Bromofluorobenzene	0.0338	0.0300	113	80-120	

Lab Batch #: 904408

Sample: 632201-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/09/13 17:40

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	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

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

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

Form 2 - Surrogate Recoveries

Project Name: A-14 6" Historical

Work Orders : 455231,

Project ID: RP-1127

Lab Batch #: 904313

Sample: 632121-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/08/13 11:28

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.5	99.9	95	70-135	
o-Terphenyl	49.0	50.0	98	70-135	

Lab Batch #: 904355

Sample: 632171-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/09/13 08:51

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0300	0.0300	100	80-120	
4-Bromofluorobenzene	0.0322	0.0300	107	80-120	

Lab Batch #: 904408

Sample: 632201-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/09/13 17:07

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0325	0.0300	108	80-120	
4-Bromofluorobenzene	0.0329	0.0300	110	80-120	

Lab Batch #: 904313

Sample: 632121-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/08/13 11:56

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.7	99.9	96	70-135	
o-Terphenyl	50.5	50.0	101	70-135	

Lab Batch #: 904355

Sample: 632171-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/09/13 09:08

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	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

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: A-14 6" Historical

Work Orders : 455231,

Project ID: RP-1127

Lab Batch #: 904408

Sample: 632201-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/09/13 17:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0327	0.0300	109	80-120	
4-Bromofluorobenzene	0.0329	0.0300	110	80-120	

Lab Batch #: 904313

Sample: 455231-006 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/08/13 23:31

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.7	99.7	99	70-135	
o-Terphenyl	53.6	49.9	107	70-135	

Lab Batch #: 904355

Sample: 455231-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/09/13 15:54

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0319	0.0300	106	80-120	

Lab Batch #: 904408

Sample: 455346-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/09/13 22:15

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	80-120	
4-Bromofluorobenzene	0.0347	0.0300	116	80-120	

Lab Batch #: 904313

Sample: 455231-006 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/08/13 23:59

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	100	105	70-135	
o-Terphenyl	54.7	50.1	109	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.



Form 2 - Surrogate Recoveries

Project Name: A-14 6" Historical

Work Orders : 455231,

Project ID: RP-1127

Lab Batch #: 904355

Sample: 455231-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/09/13 15:38

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

Lab Batch #: 904408

Sample: 455346-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/09/13 22:31

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0331	0.0300	110	80-120	
4-Bromofluorobenzene	0.0290	0.0300	97	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: A-14 6" Historical

Work Order #: 455231

Analyst: KEB

Date Prepared: 01/09/2013

Project ID: RP-1127

Date Analyzed: 01/09/2013

Lab Batch ID: 904355

Sample: 632171-1-BKS

Batch #: 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											
Benzene	<0.00100	0.100	0.0790	79	0.0996	0.0753	76	5	70-130	35	
Toluene	<0.00200	0.100	0.0790	79	0.0996	0.0749	75	5	70-130	35	
Ethylbenzene	<0.00100	0.100	0.0807	81	0.0996	0.0757	76	6	71-129	35	
m,p-Xylenes	<0.00200	0.200	0.154	77	0.199	0.143	72	7	70-135	35	
o-Xylene	<0.00100	0.100	0.0818	82	0.0996	0.0714	72	14	71-133	35	

Analyst: KEB

Date Prepared: 01/09/2013

Date Analyzed: 01/09/2013

Lab Batch ID: 904408

Sample: 632201-1-BKS

Batch #: 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											
Benzene	<0.000996	0.0996	0.0846	85	0.0998	0.0934	94	10	70-130	35	
Toluene	<0.00199	0.0996	0.0811	81	0.0998	0.0943	94	15	70-130	35	
Ethylbenzene	<0.000996	0.0996	0.0835	84	0.0998	0.0908	91	8	71-129	35	
m,p-Xylenes	<0.00199	0.199	0.160	80	0.200	0.172	86	7	70-135	35	
o-Xylene	<0.000996	0.0996	0.0841	84	0.0998	0.0893	89	6	71-133	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

Project Name: A-14 6" Historical

Work Order #: 455231

Analyst: RKO

Date Prepared: 01/09/2013

Project ID: RP-1127

Date Analyzed: 01/09/2013

Lab Batch ID: 904350

Sample: 632166-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	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											
Chloride	<1.00	100	105	105	100	105	105	0	80-120	20	

Analyst: KEB

Date Prepared: 01/08/2013

Date Analyzed: 01/08/2013

Lab Batch ID: 904313

Sample: 632121-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	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											
C6-C12 Gasoline Range Hydrocarbons	<15.0	999	947	95	999	966	97	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	999	921	92	999	929	93	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: A-14 6" Historical

Work Order #: 455231

Lab Batch #: 904350

Date Analyzed: 01/09/2013

QC- Sample ID: 455231-006 S

Reporting Units: mg/kg

Project ID: RP-1127

Analyst: RKO

Date Prepared: 01/09/2013

Batch #: 1

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	19.6	105	125	100	80-120	

Lab Batch #: 904350

Date Analyzed: 01/09/2013

QC- Sample ID: 455245-001 S

Reporting Units: mg/kg

Date Prepared: 01/09/2013

Analyst: RKO

Batch #: 1

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	178	102	248	69	80-120	X

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$

Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$

All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: A-14 6" Historical

Work Order # : 455231

Project ID: RP-1127

Lab Batch ID: 904355

QC- Sample ID: 455231-001 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 01/09/2013

Date Prepared: 01/09/2013

Analyst: KEB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00120	0.120	0.113	94	0.120	0.0951	79	17	70-130	35	
Toluene	<0.00239	0.120	0.104	87	0.120	0.0916	76	13	70-130	35	
Ethylbenzene	<0.00120	0.120	0.108	90	0.120	0.0945	79	13	71-129	35	
m,p-Xylenes	<0.00239	0.239	0.208	87	0.239	0.180	75	14	70-135	35	
o-Xylene	<0.00120	0.120	0.103	86	0.120	0.0909	76	12	71-133	35	

Lab Batch ID: 904408

QC- Sample ID: 455346-001 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 01/09/2013

Date Prepared: 01/09/2013

Analyst: KEB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00119	0.119	0.0870	73	0.118	0.0609	52	35	70-130	35	X
Toluene	<0.00237	0.119	0.0817	69	0.118	0.0513	43	46	70-130	35	XF
Ethylbenzene	<0.00119	0.119	0.0746	63	0.118	0.0474	40	45	71-129	35	XF
m,p-Xylenes	<0.00237	0.237	0.139	59	0.237	0.0912	38	42	70-135	35	XF
o-Xylene	<0.00119	0.119	0.0725	61	0.118	0.0545	46	28	71-133	35	X

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

ApplicableN = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries



Project Name: A-14 6" Historical

Work Order # : 455231

Project ID: RP-1127

Lab Batch ID: 904313

QC- Sample ID: 455231-006 S

Batch #: 1 Matrix: Soil

Date Analyzed: 01/08/2013

Date Prepared: 01/08/2013

Analyst: KEB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<15.7	1040	1050	101	1050	1120	107	6	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.7	1040	1040	100	1050	1100	105	6	70-135	35	

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Project Name: A-14 6" Historical

Work Order #: 455231

Lab Batch #: 904293

Project ID: RP-1127

Date Analyzed: 01/08/2013 14:50

Date Prepared: 01/08/2013

Analyst: WRU

QC- Sample ID: 455218-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	7.60	7.37	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

Xenco Laboratories

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Joel Lowry

Project Name: A-14 6" Historical

Company Name: Basin Environmental Service Technologies, LLC

Project #: RP-1127

Company Address: P.O. Box 301

Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260

PO #: _____

Telephone No: (575)396-2378

Fax No: (575) 396-1429

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Joel Lowry

e-mail: pm@basinenv.com

(lab use only)
ORDER #: 455231

LAB # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers										Matrix			Analyze For:														RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
(lab use only)									TOTAL:	TCLP:		DW = Drinking Water SL = Sludge CW = Groundwater S = Soil/Soil NP = Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	CHLORIDES	Total Dissolved Solids																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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Special Instructions:

Hold Stockpile for TPH analysis. SL

Laboratory Comments:

Sample Containers Intact? Y N
 VOCs Free of Headspace? Y N
 Labels on container(s) Y N
 Custody seals on container(s) Y N
 Custody seals on cooler(s) Y N
 Sample Hand Delivered by Sampler/Client Rep. ? Y N
 by Couriers UPS DHL RedEx Lone Star
 Temperature Upon Receipt: 10.6 2.0

Relinquished by: Joel Lowry Date: 1/17/13 Time: 2:00
 Received by: Michael Smith Date: 1/17/13 Time: 4:00
 Relinquished by: Michael Smith Date: 1/17/13 Time: 15:00
 Received by: Shaunee Smith Date: 1/18/13 Time: 14:18



Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 01/08/2013 02:18:00 PM

Work Order #: 455231

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample 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/ 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: _____

Date: _____

Checklist reviewed by: _____

Date: _____

Analytical Report 456071

for

Southern Union Gas Services- Monahans

Project Manager: Joel Lowry

A-14 6-Inch Line

RP-1127

22-JAN-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)



22-JAN-13

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

Reference: XENCO Report No(s): **456071**
A-14 6-Inch Line
Project Address: Lea County, NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 456071. 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. 456071 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,

Nicholas Straccione

Project Manager

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Sample Cross Reference 456071



Southern Union Gas Services- Monahans, Monahans, TX

A-14 6-Inch Line

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
West Floor Trench @ 16'	S	01-17-13 09:00		456071-001
West Floor Trench @ 18'	S	01-17-13 09:30		456071-002
North Wall #2 @ 4'	S	01-17-13 13:30		456071-003
North Wall #2 @ 8'	S	01-17-13 13:40		456071-004
South Trench #5 @ 4'	S	01-17-13 14:20		456071-005
South Trench #5 @ 8'	S	01-17-13 14:30		456071-006



CASE NARRATIVE

Client Name: Southern Union Gas Services- Monahans

Project Name: A-14 6-Inch Line



Project ID: *RP-1127*
Work Order Number(s): *456071*

Report Date: *22-JAN-13*
Date Received: *01/21/2013*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-905180 Inorganic Anions by EPA 300/300.1
E300

Batch 905180, Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 456071-004, -003, -002, -005, -001, -006.

The Laboratory Control Sample for Chloride is within laboratory Control Limits

Certificate of Analysis Summary 456071

Southern Union Gas Services- Monahans, Monahans, TX



Project Name: A-14 6-Inch Line

Project Id: RP-1127

Contact: Joel Lowry

Project Location: Lea County, NM

Date Received in Lab: Mon Jan-21-13 09:00 am

Report Date: 22-JAN-13

Project Manager: Nicholas Straccione

<i>Analysis Requested</i>	<i>Lab Id:</i> <i>Field Id:</i> <i>Depth:</i> <i>Matrix:</i> <i>Sampled:</i>	456071-001 West Floor Trench @ 16' SOIL Jan-17-13 09:00	456071-002 West Floor Trench @ 18' SOIL Jan-17-13 09:30	456071-003 North Wall #2 @ 4' SOIL Jan-17-13 13:30	456071-004 North Wall #2 @ 8' SOIL Jan-17-13 13:40	456071-005 South Trench #5 @ 4' SOIL Jan-17-13 14:20	456071-006 South Trench #5 @ 8' SOIL Jan-17-13 14:30
Inorganic Anions by EPA 300/300.1 SUB: E871002	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	Jan-22-13 10:58 Jan-22-13 10:58 mg/kg RL	Jan-22-13 11:50 Jan-22-13 11:50 mg/kg RL	Jan-22-13 12:08 Jan-22-13 12:08 mg/kg RL	Jan-22-13 12:25 Jan-22-13 12:25 mg/kg RL	Jan-22-13 12:42 Jan-22-13 12:42 mg/kg RL	Jan-22-13 13:00 Jan-22-13 13:00 mg/kg RL
Chloride		701 1.21	255 1.19	4.38 1.26	2.42 1.23	14.5 1.25	5.26 1.19
Percent Moisture	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	Jan-22-13 12:25 % RL	Jan-22-13 12:25 % RL	Jan-22-13 12:25 % RL	Jan-22-13 12:25 % RL	Jan-22-13 12:25 % RL	Jan-22-13 12:25 % RL
Percent Moisture		17.5 1.00	16.1 1.00	20.4 1.00	18.7 1.00	20.0 1.00	16.1 1.00
TPH By SW8015 Mod	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>		Jan-22-13 09:45 Jan-22-13 10:41 mg/kg RL				
C6-C12 Gasoline Range Hydrocarbons			ND 17.9				
C12-C28 Diesel Range Hydrocarbons			ND 17.9				
C28-C35 Oil Range Hydrocarbons			ND 17.9				
Total TPH			ND 17.9				

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

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



Nicholas Straccione
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.

* 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 **SQL** 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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4143 Greenbriar Dr, Stafford, TX 77477
 9701 Harry Hines Blvd , Dallas, TX 75220
 5332 Blackberry Drive, San Antonio TX 78238
 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

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: A-14 6-Inch Line

Work Orders : 456071,

Project ID: RP-1127

Lab Batch #: 905199

Sample: 456071-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/22/13 10:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.0	100	88	70-135	
o-Terphenyl	47.4	50.1	95	70-135	

Lab Batch #: 905199

Sample: 632683-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/22/13 14:51

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.5	99.8	88	70-135	
o-Terphenyl	46.4	49.9	93	70-135	

Lab Batch #: 905199

Sample: 632683-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/22/13 12:40

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	79.8	99.6	80	70-135	
o-Terphenyl	53.5	49.8	107	70-135	

Lab Batch #: 905199

Sample: 632683-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/22/13 13:38

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.5	99.9	88	70-135	
o-Terphenyl	56.1	50.0	112	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.



Blank Spike Recovery



Project Name: A-14 6-Inch Line

Work Order #: 456071

Project ID:

RP-1127

Lab Batch #: 905180

Sample: 632692-1-BKS

Matrix: Solid

Date Analyzed: 01/22/2013

Date Prepared: 01/22/2013

Analyst: RKO

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	<1.00	100	95.6	96	80-120	

Blank Spike Recovery [D] = $100 \times [C] / [B]$

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

BRL - Below Reporting Limit

Project Name: A-14 6-Inch Line

Work Order #: 456071

Analyst: KEB

Date Prepared: 01/22/2013

Project ID: RP-1127

Date Analyzed: 01/22/2013

Lab Batch ID: 905199

Sample: 632683-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	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											
C6-C12 Gasoline Range Hydrocarbons	<14.9	996	862	87	999	900	90	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<14.9	996	938	94	999	950	95	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 / MSD Recoveries



Project Name: A-14 6-Inch Line

Work Order # : 456071

Project ID: RP-1127

Lab Batch ID: 905180

QC- Sample ID: 456071-001 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 01/22/2013

Date Prepared: 01/22/2013

Analyst: RKO

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	701	121	685	0	121	691	0	1	80-120	20	X

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Project Name: A-14 6-Inch Line

Work Order #: 456071

Lab Batch #: 905195

Project ID: RP-1127

Date Analyzed: 01/22/2013 12:25

Date Prepared: 01/22/2013

Analyst: WRU

QC- Sample ID: 456071-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	17.5	17.1	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

Xenco Laboratories

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Joel Lowry

Project Name: A-14 6-Inch Line

Company Name Basin Environmental Service Technologies, LLC

Project #: (RP-1127)

Company Address: P.O. Box 301

Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260

PO #: Bill Southern Union Gas

Telephone No: (575)396-2378

Fax No: (575) 396-1429

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Joel Lowry

e-mail: pm@basinenv.com, rose.slade@SUG.com, cyndi.inskeep@sug.com

(lab use only)
ORDER #: 456071

(lab use only)		456071																																				
ORDER #:																																						
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers								Matrix		Analyze For:												RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY							
								Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW = Drinking Water SL = Sludge	GW = Groundwater S = Soil/Solid	NP = Non-Potable Specify Other	TPH: 418.1	8015M	8015B	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	CHLORIDES	Total Dissolved Solids					
01	West Floor Trench @ 16'			1/17/2013	900		1	X																														
02	West Floor Trench @ 18'			1/17/2013	930		1	X											X																			
03	North Wall #2 @ 4'			1/17/2013	130		1	X																														
04	North Wall #2 @ 8'			1/17/2013	140		1	X																														
05	South Trench #5 @ 4'			1/17/2013	220		1	X																														
06	South Trench #5 @ 8'			1/17/2013	230		1	X																														
7																																						

Special Instructions:

Laboratory Comments:

Relinquished by: <u>Joel Lowry</u>	Date: <u>1/18/13</u>	Time: <u>7:00</u>	Received by: <u>Mike Dan</u>	Date: <u>1-18-13</u>	Time: <u>6:00</u>	Sample Containers Intact? <u>Y</u> <u>N</u>
Relinquished by: <u>Mike Dan</u>	Date: <u>1-18-13</u>	Time: <u>7:51:00</u>	Received by: <u>Bill Southern</u>	Date: <u>1-18-13</u>	Time: <u>2:50pm</u>	VOCs Free of Headspace? <u>Y</u> <u>N</u>
Relinquished by: <u>Mike Dan</u>	Date: <u>1-21-13</u>	Time: <u>09:00am</u>	Received by: <u>Mike Dan</u>	Date: <u>1-21-13</u>	Time: <u>09:00am</u>	Labels on container(s) <u>Y</u> <u>N</u>
						Custody seals on container(s) <u>Y</u> <u>N</u>
						Custody seals on cooler(s) <u>Y</u> <u>N</u>
						Sample Hand Delivered <u>Y</u> <u>N</u>
						by Sampler/Client Rep. ? <u>Y</u> <u>N</u>
						by Courier? <u>UPS</u> <u>DHL</u> <u>FedEx</u> <u>Lone Star</u>
						Temperature Upon Receipt: <u>8.1</u> °C



Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 01/21/2013 09:00:00 AM

Work Order #: 456071

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	8.1
#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: _____

Date: _____

Checklist reviewed by: _____

Date: _____



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **232739**

LEASE OPERATOR/SHIPPER/COMPANY: **SUG**

LEASE NAME: **A-14 4" Line**

TRANSPORTER COMPANY: **Triple M**

DATE: **1-15-2013** VEHICLE NO: **150**

GENERATOR COMPANY
MAN'S NAME: **C. Stanley**

TIME **12:22** AM/PM **(M)**

CHARGE TO: **SUG**

RIG NAME
AND NUMBER

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: **O/D**

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs. : ☒ YARD **20** : ☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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

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

DRIVER: **[Signature]**

(SIGNATURE)

FACILITY REPRESENTATIVE: **[Signature]**

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **232783**

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY:

DATE:

VEHICLE NO:

GENERATOR COMPANY
MAN'S NAME:

TIME **2:59** AM/PM

CHARGE TO:

RIG NAME
AND NUMBER

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description:

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

☒ YARD

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **232744**

LEASE OPERATOR/SHIPPER/COMPANY: **SUG**

LEASE NAME: **A-14 6" Line**

TRANSPORTER COMPANY: **Triple M**

DATE: **1-15-2013** VEHICLE NO: **04**

GENERATOR COMPANY
MAN'S NAME: **C. Stanley**

TIME **12:34** AM/PM

CHARGE TO: **SUG**

RIG NAME
AND NUMBER

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: **o/p**

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs.

☒ YARD **20**

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: **Cory Romero**

(SIGNATURE)

FACILITY REPRESENTATIVE: **Connie Romero**

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 232701

LEASE OPERATOR/SHIPPER/COMPANY: SLUG

LEASE NAME: A-14 4" Line

TRANSPORTER COMPANY: Triple M Trucking

TIME 10:02 AM/PM

DATE: 1-15-2013

VEHICLE NO: 04

GENERATOR COMPANY

MAN'S NAME: C. Stanley

CHARGE TO: SLUG

RIG NAME
AND NUMBER

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description: o/p

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD 20

:

☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE: Connie Bonera

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 232778

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY:

DATE:

VEHICLE NO:

GENERATOR COMPANY

MAN'S NAME:

TIME 2:44 AM/PM

CHARGE TO:

RIG NAME
AND NUMBER

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description:

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD

:

☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **232700**

LEASE OPERATOR/SHIPPER/COMPANY: **SUG**

LEASE NAME: **A-14 4" Line**

TRANSPORTER COMPANY: **Triple M**

DATE: **1-15-2013**

VEHICLE NO: **150**

GENERATOR COMPANY
MAN'S NAME: **C. Stanley**

TIME **9:56** AM/PM

CHARGE TO: **SUG**

RIG NAME
AND NUMBER

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: **oil**

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD **20**

:

☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE: **Connie Romero**

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **232651**

LEASE OPERATOR/SHIPPER/COMPANY: **SLUG**

LEASE NAME: **A-14 6"**

TRANSPORTER COMPANY: **Triple M**

DATE: **1-14-2013** VEHICLE NO: **150**

GENERATOR COMPANY
MAN'S NAME: **C. Stanley**

TIME **5:46** AM/PM

CHARGE TO: **SLUG**

RIG NAME
AND NUMBER

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: **Oil**

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs. : ☒ YARD **20** : ☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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

DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 232516

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY:

DATE:

VEHICLE NO:

GENERATOR COMPANY
MAN'S NAME:

TIME 10:22 AM/PM

CHARGE TO:

RIG NAME
AND NUMBER

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description:

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD

:

☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 232573

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: A-14 6" Line

TRANSPORTER COMPANY: Triple M

DATE: 1-14-2013

VEHICLE NO: 150

GENERATOR COMPANY
MAN'S NAME: C. Stanley

TIME 1:06 AM/PM

CHARGE TO: SUG

RIG NAME
AND NUMBER

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: O/D

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD

20

:

☐

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 232614

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: A-14 6" Line

TRANSPORTER COMPANY: Triple M

DATE: 1-14-2013 VEHICLE NO: 150

GENERATOR COMPANY
MAN'S NAME: O. Stanley

TIME 3:02 AM/PM

CHARGE TO: SUG

RIG NAME
AND NUMBER

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: 010

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD 20

:

☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 232648

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: A-14 6" Line

TRANSPORTER COMPANY: Basin Service

DATE: 1-14-2013 VEHICLE NO: 03

GENERATOR COMPANY
MAN'S NAME: A. Stanley

TIME 4:54 AM/PM

CHARGE TO: SUG

RIG NAME
AND NUMBER

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: OIL

RRC or API #

C-133#

VOLUME OF MATERIAL [] BBLs. : YARD 26 : []

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **232619**

LEASE OPERATOR/SHIPPER/COMPANY: **SUG**

LEASE NAME: **A-14 6" Line**

TRANSPORTER COMPANY: **Triple M**

DATE: **1-14-2013**

VEHICLE NO: **03**

GENERATOR COMPANY
MAN'S NAME: **C. Stanley**

TIME **3:11** AM/PM **(M)**

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

Description: **OLD**

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD **26**

:

☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: **D. Cruz**

(SIGNATURE)

FACILITY REPRESENTATIVE: **D. Sta Cruz**

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **232515**

LEASE OPERATOR/SHIPPER/COMPANY: **SLUG**

LEASE NAME: **A-14 14" Line**

TRANSPORTER COMPANY: **Triple M**

TIME **10:19** AM/PM

DATE: **1-14-2013**

VEHICLE NO: **03**

GENERATOR COMPANY

MAN'S NAME: **C. Stanley**

CHARGE TO: **SLUG**

RIG NAME
AND NUMBER

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description: **o/p**

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD **20**

:

☐

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DRIVER: **James**

(SIGNATURE)

FACILITY REPRESENTATIVE: **Connie Romero**

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **232564**

LEASE OPERATOR/SHIPPER/COMPANY: **SUG**

LEASE NAME: **A-14 4" Line**

TRANSPORTER COMPANY: **Triple M**

DATE: **1-14-2013** VEHICLE NO: **03**

GENERATOR COMPANY
MAN'S NAME: **C. Stanley**

TIME **12:49** AM/PM **P**

CHARGE TO: **SUG**

RIG NAME
AND NUMBER

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: **010**

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD **20**

:

☐

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DRIVER: **[Signature]**

(SIGNATURE)

FACILITY REPRESENTATIVE: **[Signature]**

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 232294

LEASE OPERATOR/SHIPPER/COMPANY: SLUG

LEASE NAME: A-14 1" Line

TRANSPORTER COMPANY: Triple M

DATE: 1-11-2013 VEHICLE NO: 150

GENERATOR COMPANY
MAN'S NAME: C. Stanley

TIME 4:22 AM/PM

CHARGE TO: SLUG

RIG NAME
AND NUMBER

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: O/D

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs. : ☒ YARD 20 : ☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE: Connie Romero

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 232209

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY:

DATE: 1-11-2013 VEHICLE NO:

GENERATOR COMPANY
MAN'S NAME:

TIME 11:56 AM/PM

CHARGE TO:

RIG NAME
AND NUMBER

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description:

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs. : ☒ YARD 20 : ☐

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **232180**

LEASE OPERATOR/SHIPPER/COMPANY: **SUG**

LEASE NAME: **A-14 4" Line**

TRANSPORTER COMPANY: **Triple M**

DATE: **1-11-2013** VEHICLE NO: **150**

GENERATOR COMPANY
MAN'S NAME: **Co Stanley**

TIME **10:04** AM/PM

CHARGE TO: **SUG**

RIG NAME
AND NUMBER

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: **210**

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs. : **1** YARD **20** : ☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: **[Signature]**

(SIGNATURE)

FACILITY REPRESENTATIVE: **[Signature]**

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **232259**

LEASE OPERATOR/SHIPPER/COMPANY: **SUG**

LEASE NAME: **A 14 1/2" Line**

TRANSPORTER COMPANY: **Triple M**

DATE: **1-11-2013** VEHICLE NO: **150**

GENERATOR COMPANY
MAN'S NAME: **C. Stanley**

TIME **2:25** AM/PM

CHARGE TO: **SUG**

RIG NAME
AND NUMBER

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: **OP**

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs. : ☒ YARD **20** : ☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: **[Signature]**

(SIGNATURE)

FACILITY REPRESENTATIVE: **[Signature]**

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 232174

LEASE OPERATOR/SHIPPER/COMPANY: SLUG

LEASE NAME: A-14 6" Line

TRANSPORTER COMPANY: Triple M

DATE: 1-11-2013

VEHICLE NO: 7

TIME 9:52 AM/PM

GENERATOR COMPANY
MAN'S NAME: C. Stanley

CHARGE TO: SLUG

RIG NAME
AND NUMBER

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: 010

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD 20

:

☐

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DRIVER: Gabe L. Sells

(SIGNATURE)

FACILITY REPRESENTATIVE: Connie Romero

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 232206

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: A-14 Le Line

TRANSPORTER COMPANY: Triple M

DATE: 1-11-2013 VEHICLE NO: 7

GENERATOR COMPANY
MAN'S NAME: C. Stanley

TIME 11:47 AM/PM

CHARGE TO: SUG

RIG NAME
AND NUMBER

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: o/o

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLs. : 4 ☒ YARD 20 : ☐

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DRIVER: Edwin C. Soliman

(SIGNATURE)

FACILITY REPRESENTATIVE: Connie Romero

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **232248**

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY:

DATE:

VEHICLE NO:

GENERATOR COMPANY
MAN'S NAME:

TIME **2:02** AM/PM

CHARGE TO:

RIG NAME
AND NUMBER

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description:

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD

:

☐

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **231940**

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: A-14 6" Line

TRANSPORTER COMPANY: Triple M

DATE: 1-9-2013

VEHICLE NO: 7

GENERATOR COMPANY
MAN'S NAME: Rose Slade

TIME 12:05 AM/PM

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

Description: old

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD 20

:

☐

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DRIVER: Edward Sellen

(SIGNATURE)

FACILITY REPRESENTATIVE: A. Sta Cruz

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **231941**

LEASE OPERATOR/SHIPPER/COMPANY: **SUG**

LEASE NAME: **A-14 6" Line**

TRANSPORTER COMPANY: **Triple M**

DATE: **1-9-2013** VEHICLE NO: **150**

GENERATOR COMPANY
MAN'S NAME: **Rise Slade**

TIME **12:08 AM/PM**

CHARGE TO: **SUG**

RIG NAME
AND NUMBER

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: **OLD**

RRC or API #

C-133#

VOLUME OF MATERIAL ☐ BBLS. : ☒ YARD **20** : ☐

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DRIVER: **[Signature]**
(SIGNATURE)

FACILITY REPRESENTATIVE: **[Signature]**
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 231916

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY:

DATE:

VEHICLE NO:

GENERATOR COMPANY
MAN'S NAME:

TIME 9:50 AM/PM

CHARGE TO:

RIG NAME
AND NUMBER

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description:

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

☒ YARD

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 231917

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY:

DATE:

VEHICLE NO:

GENERATOR COMPANY
MAN'S NAME:

TIME 10:00 AM/PM

CHARGE TO:

RIG NAME
AND NUMBER

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description:

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD

:

☐

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 232298

LEASE OPERATOR/SHIPPER/COMPANY:

SUG

LEASE NAME:

A-14 10" Line

TRANSPORTER COMPANY:

Triple M

TIME 4:35 AM (PM)

DATE: 1-11-2013

VEHICLE NO:

7

GENERATOR COMPANY
MAN'S NAME:

C. Stanley

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

Description:

oil

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs

☒ YARD

20

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DRIVER:

Edward Sellen

(SIGNATURE)

FACILITY REPRESENTATIVE:

Cesar Romero

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

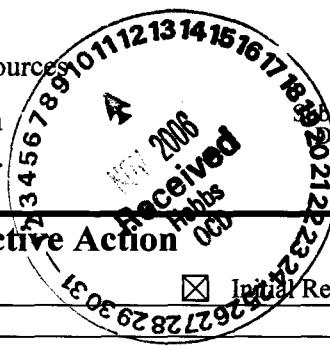
Re-order from: TOTALLY SHARP ADVERTISING • 432-580-5401 • www.PromoSupermarket.com

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form



Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Southern Union Gas Services, Ltd.	Contact	Tony Savoie
Address	P.O. Box 1226 Jal, N.M. 88252	Telephone No.	505-395-2116
Facility Name	Lea County Field Dept.	Facility Type	Natural Gas Gathering

Surface Owner: Federal	Mineral Owner: Federal	Lease No.
------------------------	------------------------	-----------

LOCATION OF RELEASE

Unit Letter B	Section 7	Township 23S	Range 34E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
------------------	--------------	-----------------	--------------	---------------	------------------	---------------	----------------	---------------

329' GW

Latitude N32 19.563 Longitude W103 30.334

NATURE OF RELEASE

Type of Release : Crude oil, and natural gas	Volume of Release: 90 mcf gas, 7 bbls crude oil	Volume Recovered 0 bbls
Source of Release 6" Pipeline	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 10/29/06 Time: 11:00 a.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? Gary Wink was contacted at 0800 on 10/30/06	
By Whom? Tony Savoie, Southern Union Gas Services	Date and Hour: 10/30/06 0800	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The 6" steel gathering pipeline, operating at 25 psi developed a leak, the line was excavated and a temporary leak repair clamp was placed on the affected area. Normal operating pressure on the line is 20 psi to 30 psi, with a potential H2S content of 4000 ppm.

Describe Area Affected and Cleanup Action Taken. The affected area is pasture. An area covering approximately 1000 sq. ft. was affected by the release and response activities. Remediation activities will start after the landowner has approved the remediation plan. All remediation activities will follow the NMOCD Recommended Guidelines For The Remediation of Leaks and Spills.

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

OIL CONSERVATION DIVISION

Signature: Tony Savoie	Approved by District Supervisor: <i>[Signature]</i>		
Printed Name: John A. Savoie			
Title: EH&S Comp. Coord.	Approval Date: 11-18-06	Expiration Date: 12-18-06	
E-mail Address: john.savoie@sug.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 11/9/06 Phone: 505-395-2116			

* Attach Additional Sheets If Necessary

incident - PPAC0632156290
application - PPAC0632156431

RP#1127

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report ☐ Final Report ☒

Name of Company	Southern Union Gas Services, Ltd.	Contact	Crystal Callaway
Address	801 S. Loop 464, Monahans, TX, 79756	Telephone No.	817-302-9407
Facility Name: A-14 6" Line (RP-1127) Lea County Field Dept.		Facility Type	Natural Gas Gathering

Surface Owner	Federal	Mineral Owner: Federal	Lease No.
---------------	---------	------------------------	-----------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	7	22S	34E					Lea

Latitude N32 19.563 Longitude W103 30.334

NATURE OF RELEASE

Type of Release	Crude Oil and Natural Gas	Volume of Release	90 Mcf Gas, 7 bbls crude oil	Volume Recovered	0 bbls
Source of Release	6" Pipeline	Date and Hour of Occurrence	Unknown	Date and Hour of Discovery	10/29/06
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	Gary Wink was contacted at 0800 on 10/30/06		
By Whom?	Tony Savoie, Southern Union Gas Services	Date and Hour:	10/30/06		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken:

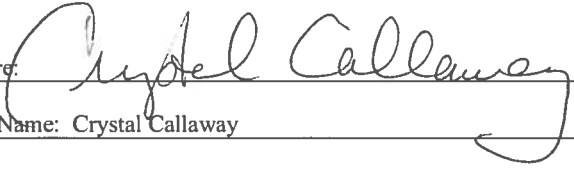
The 6" Steel gathering pipeline, operating at 25 psi developed a leak, the line was excavated and a temporary leak repair clamp was placed on the affected area. Normal operating pressure on the line is 20 psi to 30 psi, with a potential H₂S content of 4000 ppm.

Describe Area Affected and Cleanup Action Taken. The affected area is pasture. An area covering approximately 1,000 sq. ft. was affected by the release and response activities. Remediation activities will start after the landowner has approved the remediation plan. All remediation activities will follow the NMOCD recommended Guidelines for the Remediation of Leaks and Spills.

Between December 22, 2006, and February 8, 2007, remediation activities were conducted at the A-14 6" Line Release Site by an environmental contractor that is no longer affiliated with the site. On December 19, 2012, Basin responded to the release site to conduct an initial investigation. During the initial investigation, soil containing chloride above NMOCD Regulatory Standards was encountered and excavated accordingly. Between January 9 and 15, 2013, approximately 520 yd³ of impacted material was excavated from the remediation site. The final dimensions were approximately 48'x 30'x 10'. Soil samples collected from the floor and sidewalls of the excavation were analyzed by an NMOCD approved laboratory which determine concentrations of BTEX, TPH and chloride were below NMOCD Regulatory Standards. On January 25, 2013, upon receiving NMOCD approval, the excavation was backfilled with non-impacted soil.

Please see the attached *Remediation Summary and Site Closure Request* for details of remedial activities and the site investigation.

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

Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Crystal Callaway		Approved by District Supervisor:	
Title: Senior Environmental Remediation Specialist		Approval Date:	Expiration Date:
E-mail Address: Crystal.Callaway@Regencygas.com		Conditions of Approval:	
Date: 12/01/2014	Phone: 817-302-9407		