Basin Environmental Service Technologies, LLC

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Effective Solutions

REMEDIATION SUMMARY &

SITE CLOSURE REQUEST

SOUTHERN UNION GAS SERVICES
TRUNK "O" #1
HISTORICAL RELEASE SITE
Lea County, New Mexico
Unit Letter "L" (NW/SW), Section 22, Township 22 South, Range 36 East
Latitude 32° 22.460' North, Longitude 103° 15.588' West
NMOCD Reference # 1RP-1507

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 2012

Joel W. Lowry
Project Manager

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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 Trunk "O" #1 Historical Release Site (1RP-1507). The legal description of the release site is Unit Letter "L" (NW/SW), Section 22, Township 22 South, Range 36 East, in Lea County, New Mexico. The geographic coordinates of the release site are 32° 22.460' North latitude and 103° 15.588' West longitude. The property affected by the release is owned by Dasco Land and Cattle Company. Please reference Figure 1 for a "Site Location Map".

On July 21, 2007, Southern Union discovered a release had occurred on the Trunk "O" Pipeline. The "Release Notification and Corrective Action Form" (Form C-141) indicated failure of a section of thirty-inch (30") low-pressure pipeline resulted in the release of approximately sixty barrels (60 bbls) of crude oil and produced water mixture along with one thousand, two hundred fifteen (1,215) Mcf of natural gas. During initial response activities approximately forty barrels (40 bbls) of free standing fluid was recovered with a vacuum truck. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office on discovery. The Form C-141, filed August 2, 2007, indicated the release affected approximately two thousand, four hundred square feet (2,400 ft^2) of pasture land and nine hundred square feet (900 ft^2) of caliche lease road. General photographs of the release site are provided as Appendix A. The Form C-141 is provided as Appendix D.

Between July 26, and August 10, 2007, remediation activities were conducted at the Trunk "O" #1 Release Site by an environmental contractor that is no longer affiliated with the site. The nature and extent of the aforementioned activities remains unclear, as environmental reports and work records are not readily available. Transporter's manifests indicate at least two hundred fifty-two cubic yards (252 yd^3) of impacted material was transported to Southern Union Gas Services' Landfarm (Discharge Permit # NM-02-0019) for treatment during this time. Copies of transport's manifests are provided as Appendix C.

On June 22, 2012, at the request of Southern Union, Basin assumed remediation responsibilities at the Trunk "O" #1 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 Unit Letter L, Section 22, Township 22 South, Range 36 East. A depth to groundwater reference map utilized by the NMOCD indicated groundwater should be encountered at approximately two hundred fifty feet (250') below ground surface (bgs). 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 Trunk "O" #1 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 October 30, 2012, Basin responded to the Trunk "O" #1 Historical Release Site. An initial investigation indicated previous remediation activities had been conducted at the release site. A series of six (6) test trenches were advanced within the historical release flowpath in an effort to determine if impacted soil containing BTEX, TPH, and chloride concentrations above NMOCD regulatory standards remained in-situ.

Test Trench #1 was advanced to approximately eight feet (8') bgs near the northwest margin of the historical release flowpath. During the advancement of the test trench, select soil sample were field-screened using a photo-ionization detector (PID) and chloride field test kit. Three (3) soil samples (TT-1 @ 3', TT-1 @ 6' and TT-1 @ 8') were collected and submitted to Xenco Laboratories, of Odessa, Texas, for determination of chloride concentrations in accordance with EPA Method 300.1. Laboratory analytical results indicated chloride concentrations ranged from 30.9 mg/Kg for soil sample TT-1 @ 8' to 343 mg/Kg for soil sample TT-1 @ 6'. Soil samples TT-1 @ 3' and TT-1 @ 8' were also analyzed for concentrations of TPH in accordance with EPA Method SW 846-8015M. Analytical results indicated TPH concentrations were less than the appropriate laboratory method detection limit (MDL) for each of the submitted soil samples. Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chloride in Soil". Soil sample locations are depicted in Figure 2, "Site & Sample Location Map". Laboratory analytical reports are provided as Appendix B.

Test Trench #2 was advanced to approximately six feet (6') bgs approximately ten feet (10') northeast of the inferred release point, within the historical release flowpath. During the advancement of the test trench, two (2) soil samples (TT-2 @ 3' and TT-2 @ 6') were collected and submitted to the laboratory for analysis of chloride and TPH concentrations. Laboratory analytical results indicated chloride concentrations ranged from 10.4 mg/Kg for soil sample TT-2 @ 3' to 33.9 mg/Kg in soil sample TT-2 @ 6'. Analytical reports indicated TPH concentrations were less than the appropriate laboratory MDL for each of the soil samples submitted.

Test Trench #3 was advanced to approximately eight feet (8') begs near the inferred center of the historical release pooling area. During the advancement of the test trench, three (3) soil samples

(TT-3 @ 3, TT-3 @ 6', and TT-3 @ 8') were collected and submitted to the laboratory for chloride analysis. Laboratory analytical results indicated chloride concentrations ranged from 181 mg/Kg for soil sample TT-3 @ 8' to 309 mg/Kg in soil sample TT-3 @ 3'. Soil samples TT-3 @ 3' and TT-3 @ 8' were also analyzed for concentrations of TPH. Analytical results indicated TPH concentrations were less than the appropriate laboratory MDL for each of the soil samples submitted.

Test Trench #4 was advanced to approximately eight feet (8') bgs adjacent to the inferred release point, west of the Trunk "O" Pipeline. During the advancement of the test trench, three (3) soil samples (TT-4 @ 3', TT-4 @ 6' and TT-4 @ 8') were collected and submitted to the laboratory for chloride analysis. Laboratory analytical results indicated chloride concentrations ranged from 65.7 mg/Kg for soil sample TT-4 @ 3' to 219 mg/Kg for soil sample TT-4 @ 6'. Soil samples TT-4 @ 3' and TT-4 @ 8' were also analyzed for concentrations of TPH. Analytical results indicated TPH concentrations were less than the appropriate laboratory MDL for each of the soil samples submitted. Soil sample TT-4 @ 8' was also analyzed for BTEX constituent concentrations in accordance with EPA Method SW 846-821B. Analytical results indicated the BTEX concentration was less than the appropriate laboratory MDL for each constituent.

Test Trench #5 was advanced to approximately thirteen and one-half feet (13.5') bgs near the inferred center of the historical release flowpath. During the advancement of the test trench, three (3) soil samples (TT-5 @ 3', TT-5 @ 8' and TT-5 @ 13.5') were collected and submitted to the laboratory for chloride analysis. Laboratory analytical results indicated chloride concentrations ranged from 242 mg/Kg for soil sample TT-5 @ 15.5' to 535 mg/Kg in soil sample TT-5 @ 8'. Soil samples TT-5 @ 3' and TT-5 @ 15.5' were also analyzed for concentrations of TPH. Analytical results indicated TPH concentrations were less than the appropriate laboratory MDL for each of the soil samples submitted. Soil sample TT-5 @ 13.5' was also analyzed for BTEX constituent concentrations. Analytical results indicated the BTEX concentration was less than the appropriate laboratory MDL for each constituent.

Test Trench #6 was advanced to approximately six feet (6') bgs near the inferred southern terminus of the historical release flowpath. During the advancement of the test trench, two (2) soil samples (TT-6 @ 3' and TT-6 @ 6') were collected and submitted to the laboratory for chloride and TPH analysis. Laboratory analytical results indicated chloride concentrations ranged from 15.6 mg/Kg for soil sample TT-6 @ 6' to 322 mg/Kg in soil sample TT-6 @ 3'. Analytical results indicated TPH concentrations were less than the appropriate laboratory MDL for each of the soil samples submitted.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Xenco Laboratories, 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 300/300.1

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 six (6) on-site test trenches suggested previous remediation activities at the Trunk "O" #1 Release Site met the requirements of the NMOCD's "Guidelines for Remediation of Leaks, Spills and Releases". Laboratory analytical results indicated benzene, BTEX, TPH and chloride concentrations were less than NMOCD regulatory remediation action levels in each of the submitted soil samples. Based on these laboratory analytical results, Basin recommends Southern Union provide the NMOCD Hobbs District Office a copy of this *Remediation Summary & Site Closure Request* and request the NMOCD grant site closure to the Trunk "O" #1Historical 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.

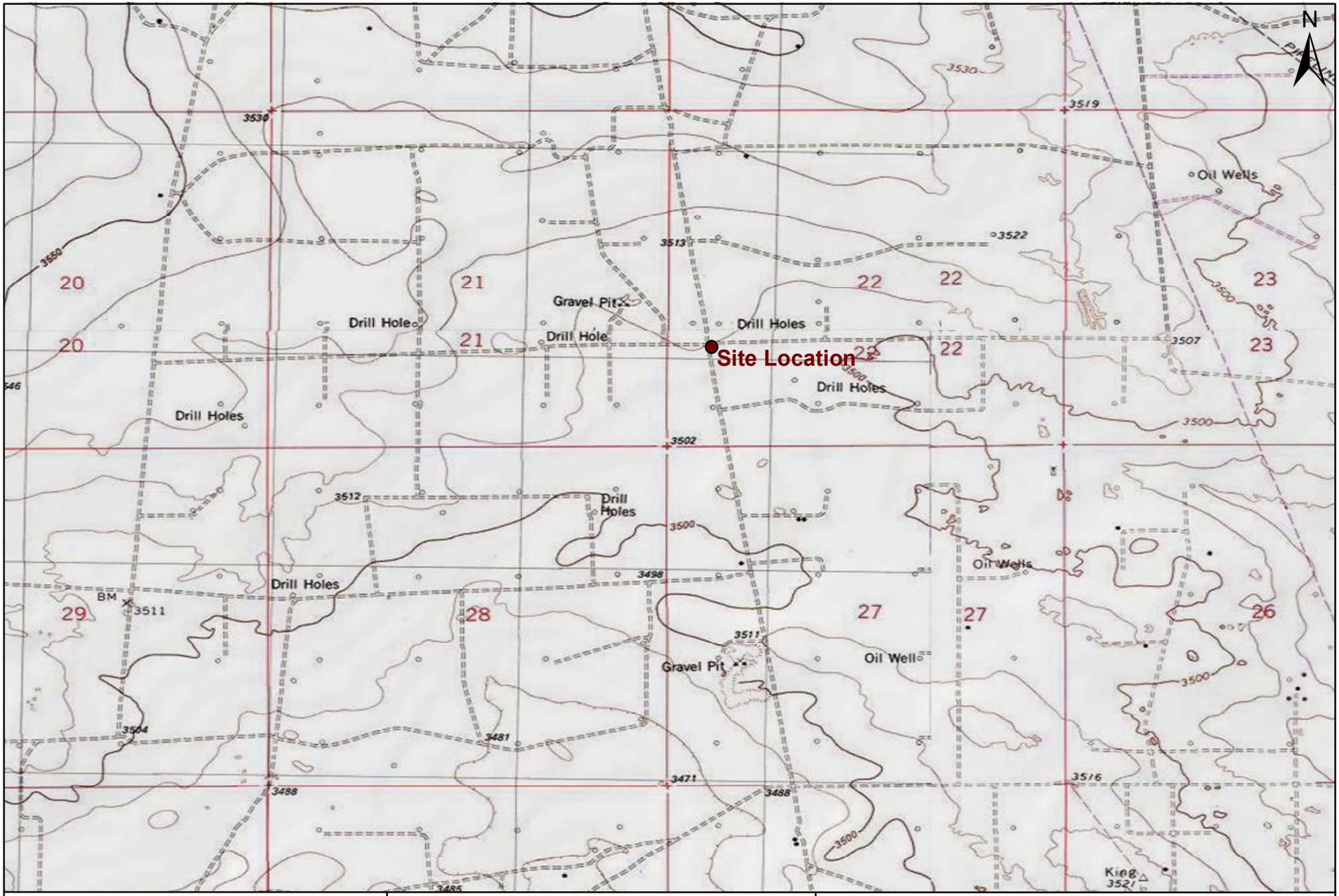
This report has been prepared for the benefit of Southern Union Gas Services. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and/or Southern Union Gas Services.

7.0 DISTRIBUTION

Copy 1: Geoffrey Leking
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 1)
1625 French Drive
Hobbs, NM 88240
GeoffreyR.Leking@state.nm.us

Copy 2: Rose Slade
Southern Union Gas Services
801 S. Loop 464
Monahans, Texas 79756
rose.slade@sug.com

Copy 3: Basin Environmental Service Technologies, LLC
P.O. Box 301
Lovington, New Mexico 88260



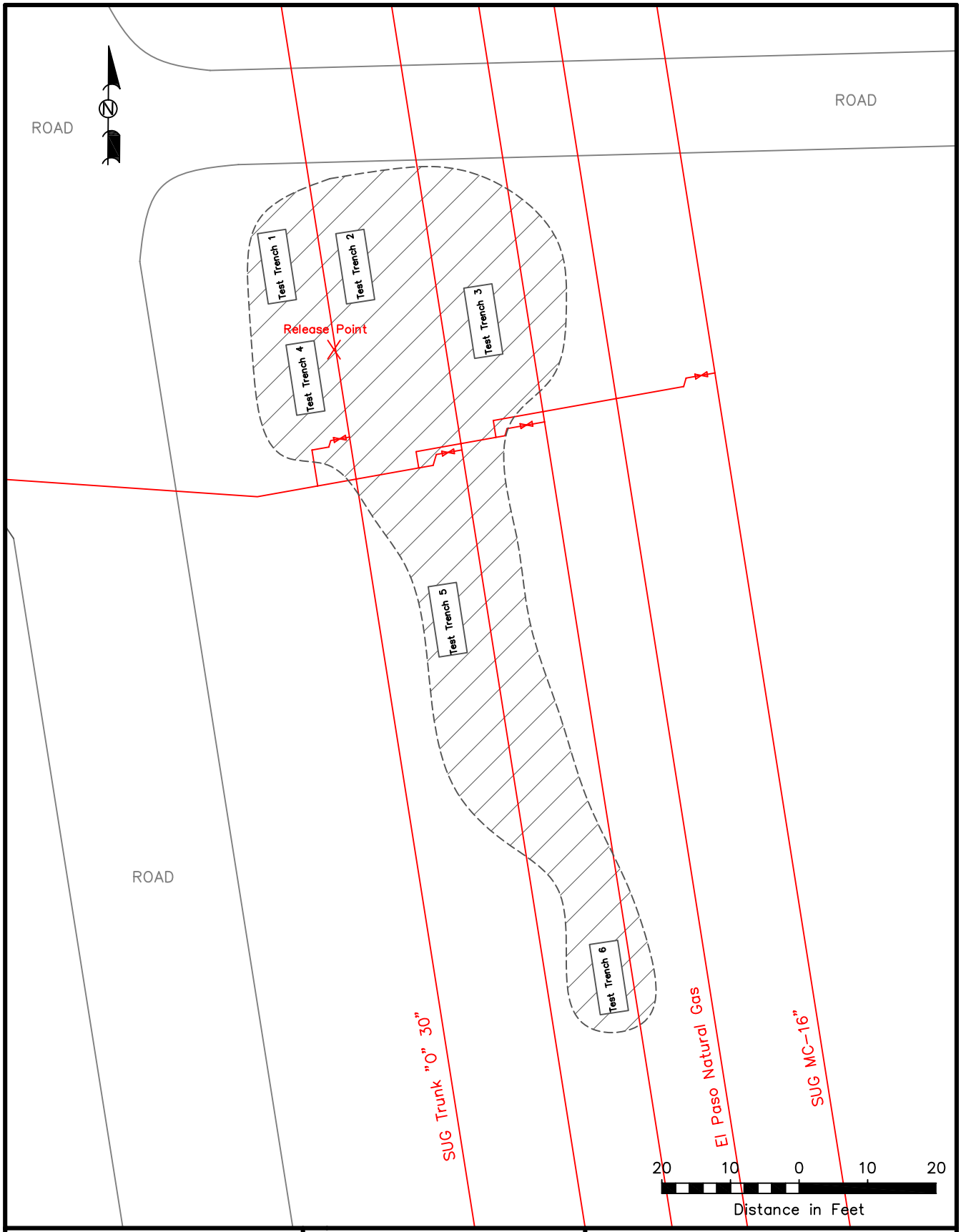
1,000500 0 1,000 2,000

Distance in Feet

Figure 1
Site Location Map
Southern Union Gas Services
Trunk "O" #1
Lea County, New Mexico
NMOCD Reference #: 1RP-1507

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

Drawn By: BJA	Checked By: JWL
November 5, 2012	Scale: 1" = 2000'



LEGEND:

Inferred Flowpath
Pipeline
Road
Sample Location
Initial Flowpath

Figure 2

Site & Sample Location Map
Southern Union Gas Services
Trunk "O" #1 (1RP-1507)
Lea County, NM

Basin Environmental Services

Scale: 1" = 20'	Drawn By: JWL	Prepared By: BRB
November 2, 2012		

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES
TRUNK "O" #1
HISTORICAL RELEASE SITE
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NO: 1RP-1507

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030							METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (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)		CHLORIDE (mg/Kg)
TT-1 @ 3'	3'	10/30/2012	In-Situ	-	-	-	-	-		-	<16.8	<16.8	<16.8	<16.8	204
TT-1 @ 6'	6'	10/30/2012	In-Situ	-	-	-	-	-	-	-	-	-	-	-	343
TT-1 @ 8'	8'	10/30/2012	In-Situ	-	-	-	-	-	-	-	<19.2	<19.2	<19.2	<19.2	30.9
TT-2 @ 3'	3'	10/30/2012	In-Situ	-	-	-	-	-	-	-	<17.7	<17.7	<17.7	<17.7	10.4
TT-2 @ 6'	6'	10/30/2012	In-Situ	-	-	-	-	-	-	-	<16.9	<16.9	<16.9	<16.9	33.9
TT-3 @ 3'	3'	10/30/2012	In-Situ	-	-	-	-	-	-	-	<17.7	<17.7	<17.7	<17.7	309
TT-3 @ 6'	6'	10/30/2012	In-Situ	-	-	-	-	-	-	-	-	-	-	-	191
TT-3 @ 8'	8'	10/30/2012	In-Situ	-	-	-	-	-	-	-	<16.0	<16.0	<16.0	<16.0	181
TT-4 @ 3'	3'	10/30/2012	In-Situ	-	-	-	-	-	-	-	<20.0	<20.0	<20.0	<20.0	65.7
TT-4 @ 6'	6'	10/30/2012	In-Situ	-	-	-	-	-	-	-	-	-	-	-	219
TT-4 @ 8'	8'	10/30/2012	In-Situ	<0.00106	<0.00212	<0.00106	<0.00212	<0.00106	<0.00106	<0.00212	<15.8	<15.8	<15.8	<15.8	142
TT-5 @ 3'	3'	10/30/2012	In-Situ	-	-	-	-	-	-	-	<16.5	<16.5	<16.5	<16.5	294
TT-5 @ 8'	8'	10/30/2012	In-Situ	-	-	-	-	-	-	-	-	-	-	-	535
TT-5 @ 13.5'	13.5'	10/30/2012	In-Situ	<0.00110	<0.00219	<0.00110	<0.00219	<0.00110	<0.00219	<0.00219	<16.5	<16.5	<16.5	<16.5	242
TT-6 @ 3'	3'	10/30/2012	In-Situ	-	-	-	-	-	-	-	<16.5	<16.5	<16.5	<16.5	322
TT-6 @ 6'	6'	10/30/2012	In-Situ	-	-	-	-	-	-	-	<19.3	<19.3	<19.3	<19.3	15.6
MOCD Regulatory Standard				**10**				**50**						**5,000**	**1,000**

- = Not analyzed.

Photograph of the initial release at the Trunk “O” #1 Historical Release Site.

Photograph of the initial release at the Trunk “O” #1 Historical Release Site.

Photograph of the disturbed area Trunk “O” #1 Historical Release Site.

Photograph of the disturbed area Trunk “O” #1 Historical Release Site.

Photograph of delineation activities at the Trunk “O” #1 Historical Release Site.

Photograph of delineation activities at the Trunk “O” #1 Historical Release Site.

Analytical Report 451912

for

Southern Union Gas Services- Monahans

Project Manager: Joel Lowry

Trunk "O" #1

(RP-1507)

15-NOV-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)

15-NOV-12

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

Reference: XENCO Report No: **451912**
Trunk "O" #1
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 451912. 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. 451912 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

Sample Cross Reference 451912

Southern Union Gas Services- Monahans, Monahans, TX

Trunk "O" #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TT-1 @ 3'	S	10-30-12 09:45	- 3 ft	451912-001
TT-1 @ 6'	S	10-30-12 09:50	- 6 ft	451912-002
TT-1 @ 8'	S	10-30-12 09:55	- 8 ft	451912-003
TT-2 @ 3'	S	10-30-12 10:05	- 3 ft	451912-004
TT-2 @ 6'	S	10-30-12 10:10	- 6 ft	451912-005
TT-3 @ 3'	S	10-30-12 10:25	- 3 ft	451912-006
TT-3 @ 6'	S	10-30-12 10:30	- 6 ft	451912-007
TT-3 @ 8'	S	10-30-12 10:35	- 8 ft	451912-008
TT-4 @ 3'	S	10-30-12 10:50	- 3 ft	451912-009
TT-4 @ 6'	S	10-30-12 10:55	- 6 ft	451912-010
TT-4 @ 8'	S	10-30-12 11:00	- 8 ft	451912-011
TT-5 @ 3'	S	10-30-12 11:20	- 3 ft	451912-012
TT-5 @ 8'	S	10-30-12 11:40	- 8 ft	451912-013
TT-5 @ 13.5'	S	10-30-12 12:10	- 13.5 ft	451912-014
TT-6 @ 3'	S	10-30-12 13:40	- 3 ft	451912-015
TT-6 @ 6'	S	10-30-12 13:50	- 6 ft	451912-016

CASE NARRATIVE

Client Name: Southern Union Gas Services- Monahans
Project Name: Trunk "O" #1

Project ID:	*(RP-1507)*	*Report Date:*	*15-NOV-12*
Work Order Number:	*451912*	*Date Received:*	*11/05/2012*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 451912

Southern Union Gas Services- Monahans, Monahans, TX

Project Name: Trunk "O" #1

Project Id: (RP-1507)
Contact: Joel Lowry
Project Location: Lea County,NM

Date Received in Lab: Mon Nov-05-12 10:04 am
Report Date: 15-NOV-12
Project Manager: Nicholas Straccione

Analysis Requested													
	Lab Id:	451912-001		451912-002		451912-003		451912-004		451912-005		451912-006	
	Field Id:	TT-1 @ 3'		TT-1 @ 6'		TT-1 @ 8'		TT-2 @ 3'		TT-2 @ 6'		TT-3 @ 3'	
	Depth:	3 ft		6 ft		8 ft		3 ft		6 ft		3 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-30-12 09:45		Oct-30-12 09:50		Oct-30-12 09:55		Oct-30-12 10:05		Oct-30-12 10:10		Oct-30-12 10:25	
Inorganic Anions by EPA 300/300.1 SUB: TX104704215	***Extracted:***	Nov-10-12 21:28		Nov-10-12 21:45		Nov-10-12 22:33		Nov-10-12 22:49		Nov-10-12 23:05		Nov-10-12 23:21	
	Analyzed:	Nov-10-12 21:28		Nov-10-12 21:45		Nov-10-12 22:33		Nov-10-12 22:49		Nov-10-12 23:05		Nov-10-12 23:21	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		204	1.12	343	1.08	30.9	1.28	10.4	1.19	33.9	1.13	309	1.18
Percent Moisture	***Extracted:***												
	Analyzed:	Nov-09-12 12:30		Nov-09-12 12:30		Nov-09-12 12:30		Nov-09-12 12:30		Nov-09-12 12:30		Nov-09-12 12:35	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		9.52	1.00	6.18	1.00	21.0	1.00	16.6	1.00	10.7	1.00	14.9	1.00
TPH By SW8015 Mod	***Extracted:***	Nov-12-12 07:45				Nov-12-12 07:45		Nov-12-12 07:45		Nov-12-12 07:45		Nov-12-12 12:00	
	Analyzed:	Nov-12-12 19:24				Nov-12-12 19:54		Nov-12-12 20:24		Nov-12-12 20:53		Nov-13-12 01:07	
	Units/RL:	mg/kg	RL			mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	16.8			ND	19.2	ND	17.7	ND	16.9	ND	17.7
C12-C28 Diesel Range Hydrocarbons		ND	16.8			ND	19.2	ND	17.7	ND	16.9	ND	17.7
C28-C35 Oil Range Hydrocarbons		ND	16.8			ND	19.2	ND	17.7	ND	16.9	ND	17.7
Total TPH		ND	16.8			ND	19.2	ND	17.7	ND	16.9	ND	17.7

Nicholas Straccione
Project Manager

Certificate of Analysis Summary 451912

Southern Union Gas Services- Monahans, Monahans, TX

Project Name: Trunk "O" #1

Project Id: (RP-1507)
Contact: Joel Lowry
Project Location: Lea County,NM

Date Received in Lab: Mon Nov-05-12 10:04 am
Report Date: 15-NOV-12
Project Manager: Nicholas Straccione

Analysis Requested													
	Lab Id:	451912-007		451912-008		451912-009		451912-010		451912-011		451912-012	
	Field Id:	TT-3 @ 6'		TT-3 @ 8'		TT-4 @ 3'		TT-4 @ 6'		TT-4 @ 8'		TT-5 @ 3'	
	Depth:	6 ft		8 ft		3 ft		6 ft		8 ft		3 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-30-12 10:30		Oct-30-12 10:35		Oct-30-12 10:50		Oct-30-12 10:55		Oct-30-12 11:00		Oct-30-12 11:20	
BTEX by EPA 8021B	***Extracted:***									Nov-15-12 08:15			
	Analyzed:									Nov-15-12 09:49			
	Units/RL:									mg/kg	RL		
Benzene										ND	0.00106		
Toluene										ND	0.00212		
Ethylbenzene										ND	0.00106		
m_p-Xylenes										ND	0.00212		
o-Xylene										ND	0.00106		
Total Xylenes										ND	0.00106		
Total BTEX										ND	0.00106		
Inorganic Anions by EPA 300/300.1 SUB: TX104704215	***Extracted:***	Nov-10-12 23:37		Nov-10-12 23:53		Nov-11-12 00:09		Nov-11-12 00:26		Nov-11-12 00:42		Nov-11-12 00:58	
	Analyzed:	Nov-10-12 23:37		Nov-10-12 23:53		Nov-11-12 00:09		Nov-11-12 00:26		Nov-11-12 00:42		Nov-11-12 00:58	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		191	1.05	181	1.07	65.7	1.34	219	1.12	142	1.06	294	1.10
Percent Moisture	***Extracted:***												
	Analyzed:	Nov-09-12 12:35		Nov-09-12 12:35		Nov-09-12 12:35		Nov-09-12 12:35		Nov-09-12 12:35		Nov-09-12 12:35	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		4.55	1.00	5.71	1.00	25.5	1.00	9.84	1.00	5.09	1.00	9.01	1.00
TPH By SW8015 Mod	***Extracted:***			Nov-12-12 12:00		Nov-12-12 12:00				Nov-12-12 12:00		Nov-12-12 12:00	
	Analyzed:			Nov-13-12 02:30		Nov-13-12 02:57				Nov-13-12 03:24		Nov-13-12 03:51	
	Units/RL:			mg/kg	RL	mg/kg	RL			mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons				ND	16.0	ND	20.0			ND	15.8	ND	16.5
C12-C28 Diesel Range Hydrocarbons				ND	16.0	ND	20.0			ND	15.8	ND	16.5
C28-C35 Oil Range Hydrocarbons				ND	16.0	ND	20.0			ND	15.8	ND	16.5
Total TPH				ND	16.0	ND	20.0			ND	15.8	ND	16.5

Nicholas Straccione
Project Manager

Certificate of Analysis Summary 451912

Southern Union Gas Services- Monahans, Monahans, TX

Project Name: Trunk "O" #1

Project Id: (RP-1507)
Contact: Joel Lowry
Project Location: Lea County,NM

Date Received in Lab: Mon Nov-05-12 10:04 am
Report Date: 15-NOV-12
Project Manager: Nicholas Straccione

Analysis Requested													
	Lab Id:	451912-013		451912-014		451912-015		451912-016					
	Field Id:	TT-5 @ 8'		TT-5 @ 13.5'		TT-6 @ 3'		TT-6 @ 6'					
	Depth:	8 ft		13.5 ft		3 ft		6 ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Oct-30-12 11:40		Oct-30-12 12:10		Oct-30-12 13:40		Oct-30-12 13:50					
BTEX by EPA 8021B	***Extracted:***			Nov-15-12 08:15									
	Analyzed:			Nov-15-12 10:05									
	Units/RL:			mg/kg	RL								
Benzene				ND	0.00110								
Toluene				ND	0.00219								
Ethylbenzene				ND	0.00110								
m_p-Xylenes				ND	0.00219								
o-Xylene				ND	0.00110								
Total Xylenes				ND	0.00110								
Total BTEX				ND	0.00110								
Inorganic Anions by EPA 300/300.1 SUB: TX104704215	***Extracted:***	Nov-11-12 01:46		Nov-11-12 02:02		Nov-11-12 02:18		Nov-11-12 02:34					
	Analyzed:	Nov-11-12 01:46		Nov-11-12 02:02		Nov-11-12 02:18		Nov-11-12 02:34					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		535	1.11	242	1.10	322	1.10	15.6	1.29				
Percent Moisture	***Extracted:***												
	Analyzed:	Nov-09-12 12:35		Nov-09-12 12:35		Nov-09-12 12:35		Nov-09-12 12:35					
	Units/RL:	%	RL	%	RL	%	RL	%	RL				
Percent Moisture		9.32	1.00	8.92	1.00	7.38	1.00	21.2	1.00				
TPH By SW8015 Mod	***Extracted:***			Nov-12-12 12:00		Nov-12-12 12:00		Nov-12-12 12:00					
	Analyzed:			Nov-13-12 04:19		Nov-13-12 11:39		Nov-13-12 05:13					
	Units/RL:			mg/kg	RL	mg/kg	RL	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons				ND	16.5	ND	16.5	ND	19.3				
C12-C28 Diesel Range Hydrocarbons				ND	16.5	ND	16.5	ND	19.3				
C28-C35 Oil Range Hydrocarbons				ND	16.5	ND	16.5	ND	19.3				
Total TPH				ND	16.5	ND	16.5	ND	19.3				

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 quantiation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

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

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

Form 2 - Surrogate Recoveries

Project Name: Trunk "O" #1

Work Orders : 451912,

Project ID: (RP-1507)

Lab Batch #: 900705 **Sample:** 451912-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/12/12 19:24

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.9	100	87	70-135	
o-Terphenyl	43.6	50.0	87	70-135	

Lab Batch #: 900705 **Sample:** 451912-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/12/12 19:54

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.5	100	88	70-135	
o-Terphenyl	44.3	50.0	89	70-135	

Lab Batch #: 900705 **Sample:** 451912-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/12/12 20:24

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.0	99.5	88	70-135	
o-Terphenyl	44.8	49.8	90	70-135	

Lab Batch #: 900705 **Sample:** 451912-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/12/12 20:53

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.4	99.8	88	70-135	
o-Terphenyl	44.4	49.9	89	70-135	

Lab Batch #: 900743 **Sample:** 451912-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/13/12 01:07

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.8	99.7	90	70-135	
o-Terphenyl	45.7	49.9	92	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: Trunk "O" #1

Work Orders : 451912,

Project ID: (RP-1507)

Lab Batch #: 900743 **Sample:** 451912-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/13/12 02:30

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.8	99.8	90	70-135	
o-Terphenyl	45.4	49.9	91	70-135	

Lab Batch #: 900743 **Sample:** 451912-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/13/12 02:57

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.4	99.6	90	70-135	
o-Terphenyl	45.0	49.8	90	70-135	

Lab Batch #: 900743 **Sample:** 451912-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/13/12 03:24

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.1	99.6	89	70-135	
o-Terphenyl	44.4	49.8	89	70-135	

Lab Batch #: 900743 **Sample:** 451912-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/13/12 03:51

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.0	99.7	89	70-135	
o-Terphenyl	45.2	49.9	91	70-135	

Lab Batch #: 900743 **Sample:** 451912-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/13/12 04:19

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.3	99.6	88	70-135	
o-Terphenyl	44.5	49.8	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: Trunk "O" #1

Work Orders : 451912,

Project ID: (RP-1507)

Lab Batch #: 900743 **Sample:** 451912-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/13/12 05:13

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.4	99.6	90	70-135	
o-Terphenyl	45.0	49.8	90	70-135	

Lab Batch #: 900743 **Sample:** 451912-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/13/12 11:39

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.7	100	90	70-135	
o-Terphenyl	44.9	50.0	90	70-135	

Lab Batch #: 900976 **Sample:** 451912-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/15/12 09:49

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0251	0.0300	84	80-120	
4-Bromofluorobenzene	0.0243	0.0300	81	80-120	

Lab Batch #: 900976 **Sample:** 451912-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/15/12 10:05

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0244	0.0300	81	80-120	
4-Bromofluorobenzene	0.0247	0.0300	82	80-120	

Lab Batch #: 900705 **Sample:** 629844-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/12/12 10:31

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	83.0	100	83	70-135	
o-Terphenyl	41.8	50.1	83	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: Trunk "O" #1

Work Orders : 451912, **Project ID:** (RP-1507)

Lab Batch #: 900743 **Sample:** 629866-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/13/12 00:40

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.6	99.9	89	70-135	
o-Terphenyl	44.7	50.0	89	70-135	

Lab Batch #: 900976 **Sample:** 630013-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/15/12 09:33

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0258	0.0300	86	80-120	
4-Bromofluorobenzene	0.0242	0.0300	81	80-120	

Lab Batch #: 900705 **Sample:** 629844-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/12/12 09:31

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	99.9	100	70-135	
o-Terphenyl	54.9	50.0	110	70-135	

Lab Batch #: 900743 **Sample:** 629866-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/12/12 23:44

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.9	99.8	91	70-135	
o-Terphenyl	51.4	49.9	103	70-135	

Lab Batch #: 900976 **Sample:** 630013-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/15/12 09:01

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0298	0.0300	99	80-120	
4-Bromofluorobenzene	0.0339	0.0300	113	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: Trunk "O" #1

Work Orders : 451912,

Project ID: (RP-1507)

Lab Batch #: 900705 **Sample:** 629844-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/12/12 10:00

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.3	99.9	97	70-135	
o-Terphenyl	52.5	50.0	105	70-135	

Lab Batch #: 900743 **Sample:** 629866-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/13/12 00:12

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.3	100	93	70-135	
o-Terphenyl	51.5	50.1	103	70-135	

Lab Batch #: 900976 **Sample:** 630013-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/15/12 09:17

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0332	0.0300	111	80-120	
4-Bromofluorobenzene	0.0315	0.0300	105	80-120	

Lab Batch #: 900705 **Sample:** 451911-003 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/12/12 21:21

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.9	100	91	70-135	
o-Terphenyl	51.6	50.1	103	70-135	

Lab Batch #: 900743 **Sample:** 451912-006 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/13/12 01:35

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.9	100	94	70-135	
o-Terphenyl	52.0	50.1	104	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: Trunk "O" #1

Work Orders : 451912,

Project ID: (RP-1507)

Lab Batch #: 900976 **Sample:** 451912-011 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/15/12 12:34

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0318	0.0300	106	80-120	
4-Bromofluorobenzene	0.0336	0.0300	112	80-120	

Lab Batch #: 900705 **Sample:** 451911-003 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/12/12 21:50

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.7	100	90	70-135	
o-Terphenyl	50.7	50.1	101	70-135	

Lab Batch #: 900743 **Sample:** 451912-006 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/13/12 02:02

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.2	100	93	70-135	
o-Terphenyl	52.3	50.1	104	70-135	

Lab Batch #: 900976 **Sample:** 451912-011 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/15/12 12:51

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0311	0.0300	104	80-120	
4-Bromofluorobenzene	0.0333	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.

BS / BSD Recoveries

Project Name: Trunk "O" #1

Work Order #: 451912 **Project ID:** (RP-1507)

Analyst: KEB **Date Prepared:** 11/15/2012 **Date Analyzed:** 11/15/2012

Lab Batch ID: 900976 **Sample:** 630013-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00100	0.100	0.105	105	0.100	0.106	106	1	70-130	35	
Toluene	<0.00200	0.100	0.110	110	0.100	0.113	113	3	70-130	35	
Ethylbenzene	<0.00100	0.100	0.106	106	0.100	0.110	110	4	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.224	112	0.200	0.234	117	4	70-135	35	
o-Xylene	<0.00100	0.100	0.108	108	0.100	0.114	114	5	71-133	35	

Analyst: TTE **Date Prepared:** 11/10/2012 **Date Analyzed:** 11/10/2012

Lab Batch ID: 900611 **Sample:** 629781-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<1.00	100	105	105	100	104	104	1	80-120	20	

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

BS / BSD Recoveries

Project Name: Trunk "O" #1

Work Order #: 451912 **Project ID:** (RP-1507)

Analyst: KEB **Date Prepared:** 11/12/2012 **Date Analyzed:** 11/12/2012

Lab Batch ID: 900705 **Sample:** 629844-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<15.0	999	948	95	999	915	92	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	999	946	95	999	912	91	4	70-135	35	

Analyst: KEB **Date Prepared:** 11/12/2012 **Date Analyzed:** 11/12/2012

Lab Batch ID: 900743 **Sample:** 629866-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<15.0	998	1000	100	1000	1000	100	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	998	988	99	1000	991	99	0	70-135	35	

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

Form 3 - MS Recoveries

Project Name: Trunk "O" #1

Work Order #: 451912

Lab Batch #: 900611 **Project ID:** (RP-1507)

Date Analyzed: 11/10/2012 **Date Prepared:** 11/10/2012 **Analyst:** TTE

QC- Sample ID: 451783-001 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	<1.04	104	110	106	80-120	

Lab Batch #: 900611

Date Analyzed: 11/11/2012 **Date Prepared:** 11/11/2012 **Analyst:** TTE

QC- Sample ID: 451912-016 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	15.6	129	148	103	80-120	

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

BRL - Below Reporting Limit

Form 3 - MS / MSD Recoveries

Project Name: Trunk "O" #1

Work Order # : 451912 **Project ID:** (RP-1507)

Lab Batch ID: 900976 **QC- Sample ID:** 451912-011 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/15/2012 **Date Prepared:** 11/15/2012 **Analyst:** KEB

Reporting Units: mg/kg

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
	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Benzene	<0.00105	0.105	0.105	100	0.106	0.100	94	5	70-130	35	
Toluene	<0.00210	0.105	0.108	103	0.106	0.109	103	1	70-130	35	
Ethylbenzene	<0.00105	0.105	0.105	100	0.106	0.101	95	4	71-129	35	
m_p-Xylenes	<0.00210	0.210	0.225	107	0.212	0.216	102	4	70-135	35	
o-Xylene	<0.00105	0.105	0.112	107	0.106	0.106	100	6	71-133	35	

Lab Batch ID: 900705 **QC- Sample ID:** 451911-003 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/12/2012 **Date Prepared:** 11/12/2012 **Analyst:** KEB

Reporting Units: mg/kg

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
	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
C6-C12 Gasoline Range Hydrocarbons	<16.3	1090	1070	98	1090	1060	97	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<16.3	1090	1080	99	1090	1070	98	1	70-135	35	

Lab Batch ID: 900743 **QC- Sample ID:** 451912-006 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/13/2012 **Date Prepared:** 11/12/2012 **Analyst:** KEB

Reporting Units: mg/kg

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
	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
C6-C12 Gasoline Range Hydrocarbons	<17.8	1190	1170	98	1190	1210	102	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<17.8	1190	1150	97	1190	1200	101	4	70-135	35	

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

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

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

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

Sample Duplicate Recovery

Project Name: Trunk "O" #1

Work Order #: 451912

Lab Batch #: 900569 **Project ID:** (RP-1507)
Date Analyzed: 11/09/2012 12:05 **Date Prepared:** 11/09/2012 **Analyst:** WRU
QC- Sample ID: 451911-005 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	8.51	9.46	11	20	

Lab Batch #: 900570
Date Analyzed: 11/09/2012 12:35 **Date Prepared:** 11/09/2012 **Analyst:** WRU
QC- Sample ID: 451912-006 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	14.9	14.6	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

Company Name: Basin Environmental Service Technologies, LLC

Company Address: P.O. Box 301

City/State/Zip: Lovington, NM 88260

Telephone No: (575)396-2378 Fax No: (575) 396-1429

Sampler Signature: Troy Nahm e-mail: pm@basinenv.com; Rose.Slade@SUG.com

Project Name: Trunk "O" #1

Project #: (RP-1507)

Project Loc: Lea County, NM

PO #: Bill Southern Union Gas

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only) ORDER #: 451912

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Soil NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M	TOTAL: TPH: 8015B TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	CHLORIDES	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY
01	TT-1 @ 3'		3'	10/30/2012	0945		1	X								Soil	X									X		X
02	TT-1 @ 6'		6'	10/30/2012	950		1	X								Soil										X		X
03	TT-1 @ 8'		8'	10/30/2012	955		1	X								Soil	X									X		X
04	TT-2 @ 3'		3'	10/30/2012	1005		1	X								Soil	X									X		X
05	TT-2 @ 6'		6'	10/30/2012	1010		1	X								Soil	X									X		X
06	TT-3 @ 3'		3'	10/30/2012	1025		1	X								Soil	X									X		X
07	TT-3 @ 6'		6'	10/30/2012	1030		1	X								Soil										X		X
08	TT-3 @ 8'		8'	10/30/2012	1035		1	X								Soil	X									X		X
09	TT-4 @ 3'		3'	10/30/2012	1050		1	X								Soil	X									X		X
10	TT-4 @ 6'		6'	10/30/2012	1055		1	X								Soil										X		X

Special Instructions:

Relinquished by: Troy Nahm	Date 11/2/12	Time 06:45	Received by:	Date 11/2/12	Time 06:45
Relinquished by:	Date 11/2/12	Time 14:05	Received by: Steve Butler	Date 11/2/12	Time 1405
Relinquished by:	Date	Time	Received by ELOT: Shawnee Smith	Date 11/5/12	Time 10:04

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 DHL FedEx Lone Star		

Temperature Upon Receipt: 10.0 °C

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
Company Name: Basin Environmental Service Technologies, LLC
Company Address: P.O. Box 301
City/State/Zip: Lovington, NM 88260
Telephone No: (575)396-2378 Fax No: (575) 396-1429
Sampler Signature: Troy Nahm e-mail: pm@basinenv.com; Rose.Slade@SUG.com

Project Name: Trunk "O" #1
Project #: (RP-1507)
Project Loc: Lea County, NM
PO #: Bill Southern Union Gas
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only) ORDER #: 45192

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Soil NP=Non-Potable Specify Oth	Analyze For: TCLP: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260	CHLORIDES	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY
11	TT-4 @ 8'		8'	10/30/2012	1100		1	X								Soil	X								X	X		X
12	TT-5 @ 3'		3'	10/30/2012	1120		1	X								Soil	X								X	X		X
13	TT-5 @ 8'		8'	10/30/2012	1140		1	X								Soil									X	X		X
14	TT-5 @ 13.5'		13.5'	10/30/2012	1210		1	X								Soil	X								X	X		X
15	TT-6 @ 3'		3'	10/30/2012	1340		1	X								Soil	X								X	X		X
16	TT-6 @ 6'		6'	10/30/2012	1350		1	X								Soil	X								X	X		X

Special Instructions:

Relinquished by: Troy Nahm	Date 11/2/12	Time 06:45	Received by:	Date 11/2/12	Time 06:45
Relinquished by:	Date 11/2/12	Time 14:05	Received by: Steve Butler	Date 11/2/12	Time 1405
Relinquished by:	Date	Time	Received by ELOT: Maurine Smith	Date 11/5/12	Time 10:04

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 DHL FedEx Lone Star		
Temperature Upon Receipt: 10.0 °C		

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 11/05/2012 10:04:00 AM

Work Order #: 451912

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)?	9.7
#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: _____

SUGS
TRUNK "O" 30" LINE
SITE #1
7-27-07

3-Loads To CELL #2

OCOTILLO ENVIRONMENTAL, LLC.

HOURS WORKED 6 @ $ _____ PER HOUR $ _____

TRUCKER L. Combs 12YD. DUMP TRUCK #1102 DATE 7-27-07

ADDRESS _____

COMPANY SUGS

PIT OWNER To SUGS LAND FARM TOTAL YDS. 36 RATE _____ TOTAL _____

ADDRESS _____ DATE PAID _____ CK. NO. _____

LOADS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	RATE	LOADS	TOTAL
	X	X	X																													3	

SUGS
TRUNK "O" 30" LINE
SITE #1
7-31-07

5-Loads To CELL #2

OCOTILLO ENVIRONMENTAL, LLC.

HOURS WORKED 10 @ $ _____ PER HOUR $ _____

TRUCKER J. Ruiz 12YD. DUMP TRUCK #1805 DATE 7-31-07

ADDRESS _____

COMPANY SUGS

PIT OWNER To SUGS LAND FARM TOTAL YDS. 60 RATE _____ TOTAL _____

ADDRESS _____ DATE PAID _____ CK. NO. _____

LOADS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	RATE	LOADS	TOTAL
	X	X	X	X	X																											5	

SWGS
TRUNK "C" 30" LINE
SITE #1
7-26-07

3-LOADS TO CELL #2

OCOTILLO ENVIRONMENTAL, LLC.

HOURS WORKED 3 @ $ _____ PER HOUR $ _____

TRUCKER J. Ruiz 12YD. DUMP TRUCK #1165 DATE 7-26-07

ADDRESS _____

COMPANY S.W.G.S.

PIT OWNER TO SWGS LAND FARM TOTAL YDS. 36 RATE _____ TOTAL _____

ADDRESS _____ DATE PAID _____ CK. NO. _____

DAYS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	RATE	LOADS	TOTAL
	X	X	X																													3	

SWGS
TRUNK "C" 30" LINE
SITE #1
7-27-07

5-LOADS TO CELL #2

OCOTILLO ENVIRONMENTAL, LLC.

HOURS WORKED 9 @ $ _____ PER HOUR $ _____

TRUCKER J. Ruiz 12YD. DUMP TRUCK #1165 DATE 7-27-07

ADDRESS _____

COMPANY S.W.G.S

PIT OWNER TO SWGS LAND FARM TOTAL YDS. 60 RATE _____ TOTAL _____

ADDRESS _____ DATE PAID _____ CK. NO. _____

DAYS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	RATE	LOADS	TOTAL
	X	X	X	X	X																											5	

SWGS
TRUNK "O" 30" LINE
SITE #1
7-31-07

5-Loads To CELL #2

OCOTILLO ENVIRONMENTAL, LLC.

HOURS WORKED 10 @ $ _____ PER HOUR $ _____

TRUCKER L. Combs 12YD. DUMP TRUCK #1102 DATE 7-31-07

ADDRESS _____

COMPANY S.W.G.S

PIT OWNER To SWGS Land Farm TOTAL YDS. 60 RATE _____ TOTAL _____

ADDRESS _____ DATE PAID _____ CK. NO. _____

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	RATE	LOADS	TOTAL
	X	X	X	X	X																											5	

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

Received
Hobbs

Form C-141
Revised October 10, 2003

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

Trunk "O" #1

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: DASCO Land and Cattle Co.	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
L	22	22S	36E					Lea

Latitude N32 22.460 Longitude W103 15.588

NATURE OF RELEASE

Type of Release : Crude Oil, Produced water, and Natural Gas	Volume of Release: 60 Bbls Fluid and 1215 MCF Nat. Gas	Volume Recovered 40 Bbls crude Oil and produced water
Source of Release : 30" Natural Gas Pipeline	Date and Hour of Occurrence not known	Date and Hour of Discovery 7/21/07 Time: 7:00 p.m.
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? NMOCD on call representative	
By Whom? Tony Savoie	Date and Hour: 7/21/07 7:15 p.m.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
A 30" Natural Gas gathering line developed a leak due to excess fluid delivered by a producer caused the line to pressure up and leak fluid and natural gas. Crews began shutting the line in at 7:45 pm, vacuum trucks were dispatched to the leak sites to start picking up fluid. A total of 40 bls of fluid was recovered before the leak was temporarily repaired with a 30" leak repair clamp.

Describe Area Affected and Cleanup Action Taken. Approximately 2400 Square feet of pasture land and approximately 900 square feet of caliche lease road was impacted by the release. Most of the heavily saturated soil was pushed up by a backhoe toward the point of release. The final remediation will follow the NMOCD 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.

Signature: Tony Savoie	OIL CONSERVATION DIVISION
Printed Name: Tony Savoie John A. Savoie	Approved by District Supervisor: Environ Engr
Title: Remediation Supervisor	Approval Date: 8-2-07 Expiration Date: 10-2-07
E-mail Address: tony.savoie@sug.com	Conditions of Approval: Submit Final C-141 w/ Documentation by
Date: 7/31/07 Phone: 505-395-2116	Attached ☐

* Attach Additional Sheets If Necessary

RP#507

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: Trunk "O" #1 (RP-1507)		Facility Type	Natural Gas Gathering

Surface Owner DASCO Land and Cattle Co.	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
L	22	22S	36E					Lea

Latitude N32 22.460 Longitude W103 15.588

NATURE OF RELEASE

Type of Release Crude Oil, Produced water, and Natural Gas	Volume of Release 60 Bbls Fluid and 1215 MCF Nat. Gas	Volume Recovered 40 Bbls crude Oil and produced water
Source of Release 30" Natural Gas Pipeline	Date and Hour of Occurrence not known	Date and Hour of Discovery 7/21/07 Time: 7:00 p.m.
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? NMOCD on call representative	
By Whom? Tony Savoie	Date and Hour: 7/21/07 7:15 p.m.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken:
A 30" Natural Gas gathering line developed a leak due to excess fluid delivered by a producer caused the line to pressure up and leak fluid and natural gas. Crews began shutting the line in at 7:45 pm, vacuum trucks were dispatched to the leak sites to start picking up fluid. A total of 40 bbls of fluid was recovered before the leak was temporarily repaired with a 30" leak repair clamp.

Describe Area Affected and Cleanup Action Taken. Approximately 2,400 square feet of pasture land and approximately 900 square feet of caliche lease road was impacted by the release. Most of the heavily saturated soil was pushed up by a backhoe toward the point of release.

Between July 26, and August 10, 2007, remediation activities were conducted at the Trunk "O" #1 Release Site by an environmental contractor that is no longer affiliated with the site. Transporter's manifests indicate at least 252 yd^3 of impacted material was transported to SUG's Landfarm. On October 30, 2012, the site was revisited in an effort to determine if soil exhibiting benzene, BTEX, TPH and chloride concentrations above NMOCD regulatory standards remained in-situ and collect confirmation soil samples. Laboratory analytical reports from the confirmation soil samples suggested previous remediation activities met the requirements of the NMOCD.

Please see the attached Basin Environmental Services Technologies *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: Crystal Callaway	OIL CONSERVATION DIVISION	
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: 10/27/14 Phone: (817) 302-9407		