Basin Environmental Service Technologies, LLC

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REMEDIATION SUMMARY & SITE CLOSURE REQUEST

SOUTHERN UNION GAS SERVICES
6" LATERAL (1RP-1877)
HISTORICAL RELEASE SITE
Lea County, New Mexico
Unit Letter "G" (SW/NE), Section 15, Township 22 South, Range 37 East
Latitude 32° 23.667' North, Longitude 103° 08.939' West
NMOCD Reference # 1RP-1877

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

January 2013

 Joel W	. Lowry	<i>I</i>	
	Manage		

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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 6-Inch Lateral Historical Release Site (1RP-1877). The legal description of the release site is Unit Letter "G" (SW/NE), Section 15, Township 22 South, Range 37 East, in Lea County, New Mexico. The geographic coordinates of the release site are 32° 23.667' North latitude and 103° 08.939' West longitude. The property affected by the release is owned by Mr. Irwin Boyd. Please reference Figure 1 for a "Site Location Map".

On May 22, 2008, Southern Union discovered a release had occurred on the 6" Lateral Pipeline. The "Release Notification and Corrective Action Form" (Form C-141) indicated a six-inch (6") natural gas pipeline had released an unknown volume of natural gas sometime prior to the construction of a caliche well pad over the leak location. During the removal of the caliche well pad, discolored soil was noted and brought to the attention of Southern Union. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office on June 11, 2008. The Form C-141 indicated the release affected approximately three thousand, and eighty square feet (3,080 ft²) of pasture land. General photographs of the release site are provided as Appendix A. The Form C-141 is provided as Appendix C.

Between June 12 and 26, 2008, remediation activities were conducted at the 6" Lateral Historical Release Site by an environmental contractor that is no longer affiliated with the site. Work records indicate at least three hundred and ninety-six cubic yards (396 yd³) of impacted material was transported to Southern Union Gas Services' Landfarm (Discharge Permit # NM-02-0019) for treatment during this time.

On June 22, 2012, at the request of Southern Union, Basin assumed remediation responsibilities at the 6" Lateral 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 the average depth to groundwater for Section 15, Township 22 South, Range 37 East is approximately one hundred and twenty-five feet (125') 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 6" Lateral 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 or around June 12, 2008, excavation activities began at the 6" Lateral Historical Release Site. Two (2) soil samples (PR @ Surface and PR @ 2') were collected near the release point and submitted to Cardinal Laboratories of Hobbs, NM, for analysis of TPH and Chloride concentrations. Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory method detection limit (MDL) for soil sample PR @ 2' to 67.4 mg/Kg for soil sample PR @ 2' to 96 mg/Kg for soil sample PR @ Surface. Chloride concentrations ranged from 64 mg/Kg for soil sample PR @ 2' to 96 mg/Kg for soil sample PR @ Surface. 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.

On June 18, 2008, one (1) soil sample (PR @ 5') was collected near the release point at approximately five feet (5') bgs and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated the chloride concentration was 1,470 mg/Kg.

On June 20, 2008, six (6) soil samples (PR @ 7', PR @ 9', PR @ 11', PR @ 13', PR @ 14'6" and 14'S of PR @ 5') were collected from the remediation site and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 96 mg/Kg for soil sample PR @ 11' to 272 mg/Kg for soil sample PR @ 7'.

Work records and field observations suggests the final dimensions of the former excavation were approximately fifty-five feet (55') in length, thirty feet (30') in width and five feet (5') to eight feet (8') in depth. On or around June 23, 2008, approximately three hundred ninety-six cubic yards (396 yd3) of impacted material was transported to Southern Union Gas Services' Landfarm (Discharge Permit # NM-02-0019) for treatment.

On December 7, 2012, Basin responded to the 6" Lateral Historical Release Site. An initial investigation was conducted to determine the extent of previous remediation activities.

On December 13, 2012, a series of test trenches were advanced in the disturbed area in an effort to determine if soil containing BTEX, TPH and chloride concentrations above NMOCD regulatory standards remained in-situ, and collect confirmation soil samples. Test trenches were advanced to the north, south, east and west from the inferred release point until native soil had been reached. Five (5) confirmation soil samples (Northeast SW @ 5', Northwest SW @ 3', Southeast SW @ 5', Southwest SW @ 8' and 14' South of PR @ 7') were collected and

submitted to Xenco Laboratories, of Odessa, Texas, for determination of TPH and chloride concentrations in accordance with EPA Methods SW 846-8015M and 300.1, respectively.

Laboratory analytical results indicated TPH concentrations were less than the appropriate laboratory method detection limit (MDL) for each of the samples submitted, with the exception of soil sample Southeast SW @ 5', which had a TPH concentration of 965 mg/Kg. Analytical results indicated chloride concentrations ranged from 20.0 mg/Kg for soil sample Southeast SW @ 3' to 65.8 mg/Kg for soil sample 14' South of PR @ 7'. Soil samples Southeast SW @ 5' and 14' South of PR @ 7' were also analyzed for concentrations of BTEX in accordance with EPA Method SW-846-8021B. The concentrations of BTEX was less than the laboratory MDL for each of the submitted soil samples.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Xenco Laboratories, of Odessa, Texas, and/or Cardinal Laboratories, of Hobbs, New Mexico, 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 and/or 4500 Cl- B

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 6" Lateral Historical Release Site excavation were analyzed by and NMOCD-approved laboratory. 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 6" Lateral 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

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

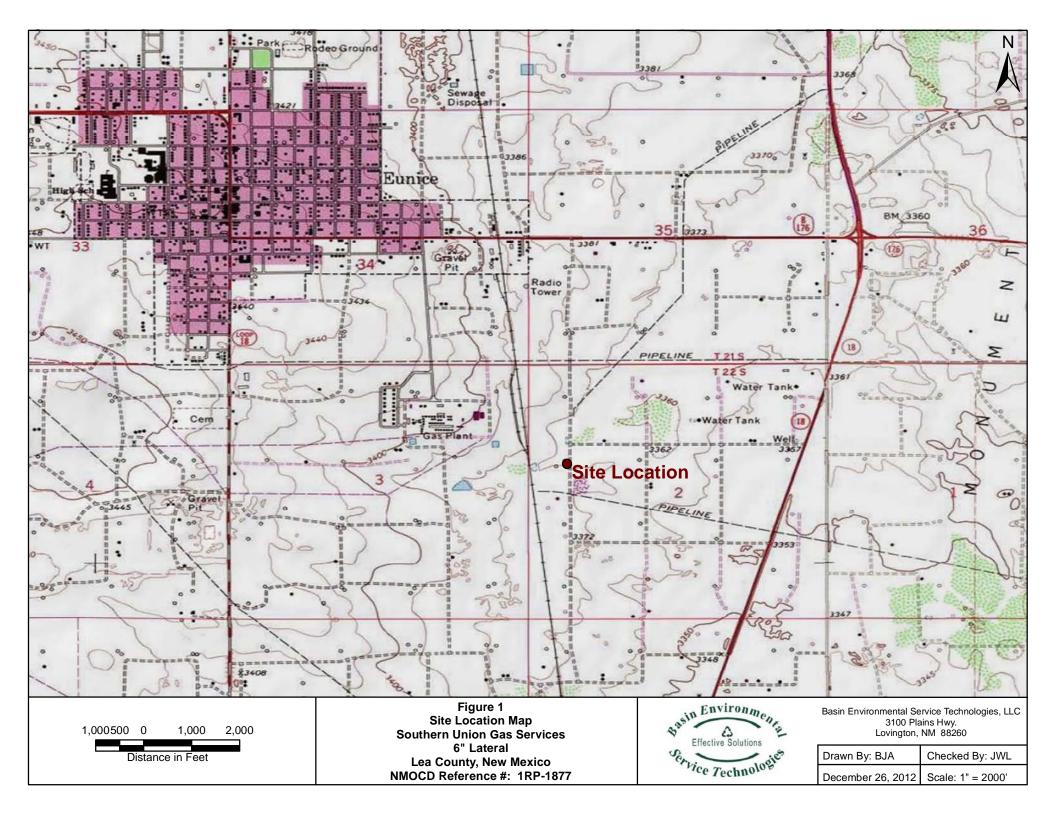
801 S. Loop 464

Monahans, Texas 79756 rose.slade@sug.com

Copy 3: Basin Environmental Service Technologies, LLC

P.O. Box 301

Lovington, New Mexico 88260



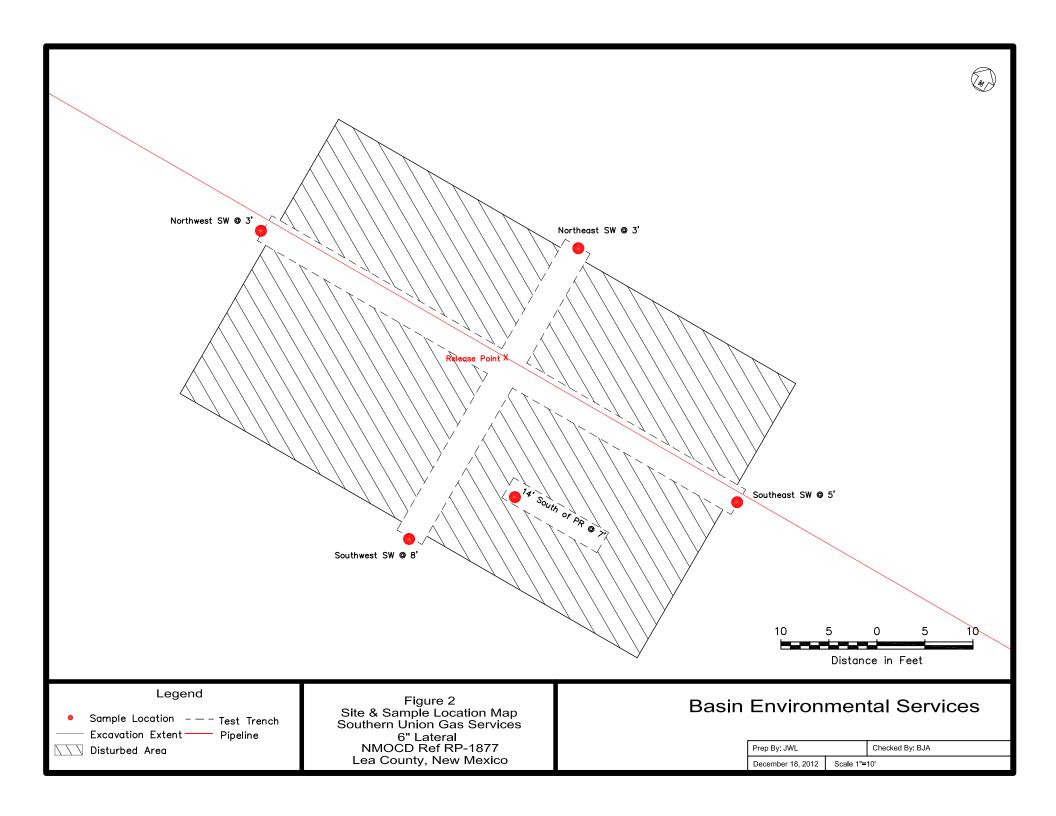


TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES 6" LATERAL HISTORICAL RELEASE SITE LEA COUNTY, NEW MEXICO NMOCD REF# 1RP-1877

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)
PR @ Surface	Surface	6/12/2008	Excavated	-	-	-	-	-	<10.0	67.4	-	-	96
PR @ 2'	2'	6/12/2008	Excavated	=	-	-	-	-	<10.0	<10.0	-	-	64
PR @ 5'	5'	6/18/2008	N/A	<0.001	< 0.001	< 0.001	< 0.003	< 0.003	<10.0	<10.0	-	-	1,470
PR @ 7'	7'	6/20/2008	N/A	-	Ī	1	1	-	1	ı	-	-	272
PR @ 9'	9'	6/20/2008	N/A	-	-	-	-	-	-	-	-		128
PR @ 11'	11'	6/20/2008	N/A	-	-	-	-	-	-	-	-		96
PR @ 13'	13'	6/20/2008	N/A	=	-	-	-	-	-	-	-	-	160
PR @ 14' 6"	14.5'	6/20/2008	N/A	=	-	-	-	-	-	-	-	-	112
14' S of PR @ 5'	5'	6/20/2008	N/A	=	-	-	-	-	-	-	-	-	448
Northeast SW @ 5'	5'	12/13/2012	In-Situ	=	-	-	-	-	<20.2	<20.2	<20.2	<20.2	31.1
Northwest SW @ 3'	3'	12/13/2012	In-Situ	-	-	-	-	-	<20.3	<20.3	<20.3	<20.3	59.1
Southeast SW @ 5'	5'	12/13/2012	In-Situ	<0.00122	<0.00243	< 0.00122	< 0.00243	<0.00243	34.4	900	30.8	965	20.0
Southwest SW @ 8'	8'	12/13/2012	In-Situ	-	-	-	-	-	<20.8	<20.8	<20.8	<20.8	26.3
14' South of PR @ 7'	7'	12/13/2012	In-Situ	<0.00130	<0.00261	< 0.00130	<0.00261	<0.00261	<19.4	<19.4	<19.4	<19.4	65.8
NMOCD Standard				10	-	-		50				5,000	1,000

^{- =} Not analyzed.



Photograph of the initial release at the 6" Lateral Historical Release Site.



Photograph of the initial release at the 6" Lateral Historical Release Site.



Photograph of delineation activities and confirmation sampling at the 6" Lateral Historical Release Site.



Photograph of delineation activities and confirmation sampling at the 6" Lateral Historical Release Site.



Photograph of delineation activities and confirmation sampling at the 6" Lateral Historical Release Site.



Photograph of 6" Lateral Historical Release Site after delineation activities and confirmation sampling.



ANALYTICAL RESULTS FOR SOUTHERN UNION GAS SERVICES ATTN: TONY SAVOIE

P.O. BOX 1226 JAL, NM 88252

FAX TO: (575) 395-2092

Receiving Date: 06/12/08 Reporting Date: 06/13/08

Project Number: 2008-016

Project Name: BOYD 6" LATERAL Project Location: I. BOYD RANCH

Relative Percent Difference

Sampling Date: 06/12/08 Sample Type: SOIL

Sample Condition: COOL & INTACT

2.0

Sample Received By: KS Analyzed By: CK/KS

LAB NUMBE	R SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	CI* (mg/kg)
ANALYSIS D	ATE	06/12/08	06/12/08	06/12/08
H14973-1	PR @ SURFACE	<10.0	67.4	96
H14973-2	PR @ 2'	<10.0	<10.0	64
Quality Contr	rol	569	584	490
True Value C	C	500	500	500
% Recovery		114	117	98.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Std. Methods 4500-CFB *Analyses performed on 1:4 w:v aqueous extracts.

Chemist

06/13/08 Date

H14973TCL SUG

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (575) 393-2326 Fax (575) 393-2476

Page 7 of 7	TO ANALYSIS REGILEST		SAME				4	SVI GW	DATE TIME	1/08/10:30 /		ount paid by the client for the Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum fron the original date of invoice, and all costs of collections including annum versions.		NO AUGILIAX#:	4847
7.6	BILL	P.O. #:	Company:	88727	Syc S City:		Phone #:	SERV	# CONTAINERS GROUNDWATER SOIL QIL QIL OTHER: ACID/BASE: ICE / COOL OTHER:	64			Received By: Phone Res	Mustr Supreb	Temp. Sample Condition CHECKED BY:
(575) 393-2326 Fax (575) 393-2476	5.4.60	Comy SAVOIE	COMMERCE PO.	-395-2116 Fax#:	910-86	Boyd 6" LATERA	Down Theman			086 3118 BCE 6	7 K@ 2,	nages. Cardinat's lability and client's exclusive remedy for any claim arising where or negligence and any other cause whatsoever shall be deemed walved until the liable for incidental or consequental damages, including without limitation, of or related to the performance of services hereunder by Cardinal. repartiess.	Date: Date: Re	Date: Re Time:	
Company Name:	Project Manager	allag	City: 74/	Phone #: 575-		Project Name:	Sampler Name:	FOR LAB USE ONLY	Lab I.D.	7		PLEASE NOTE: Liability and Dan analyses. All claims including thos service. In no event shall Cardinal	Sampler Kelinquished:	Relinquished By:	Delivered By: (Circle One)

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



ANALYTICAL RESULTS FOR SOUTHERN UNION GAS SERVICES

ATTN: TONY SAVOIE P.O. BOX 1226

JAL, NM 88252

FAX TO: (575) 395-2092

Receiving Date: 06/18/08

Reporting Date: 06/19/08 Project Number: 2008-016

Project Name: BOYD 6" LAT.
Project Location: I. BOYD RANCH

Sampling Date: 06/18/08

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AB

Analyzed By: CK/KS

	GRO	DRO	
	(C_6-C_{10})	(>C ₁₀ -C ₂₈)	CI*
LAB NUMBER SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)

ANALYSIS DATE	06/18/08	06/18/08	06/18/08
H15003-1 PR @ 5'	<10.0	<10.0	1,470
Quality Control	584	460	500
True Value QC	500	500	500
% Recovery	117	92.0	100
Relative Percent Difference	16.1	3.2	<0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Std. Methods 4500-CFB *Analysis performed on a 1:4 w:v aqueous extract.

Chemist

Date

H15003TCL SUG



ANALYTICAL RESULTS FOR SOUTHERN UNION GAS SERVICES

ATTN: TONY SAVOIE P.O. BOX 1226

JAL, NM 88252

FAX TO: (575) 395-2092

Receiving Date: 06/18/08 Reporting Date: 06/19/08

Project Number: 2008-016

Project Name: BOYD 6" LAT.
Project Location: I. BOYD RANCH

Sampling Date: 06/18/08

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AB Analyzed By: CK/AB

0.083

0.100

82.7

1.0

0.251

0.300

83.5

2.2

LAB NUMBE	ER SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS D	DATE:	06/18/08	06/18/08	06/18/08	06/18/08
H15003-1	PR @ 5'	<0.001	<0.001	<0.001	<0.003

0.083

0.100

82.8

0.5

0.082

0.100

82.5

1.0

METHOD: EPA SW-846 8021B

Relative Percent Difference

Quality Control

True Value QC

% Recovery

Chemist

Date

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240
(575) 393-2326 Fax (575) 393-2476

	88252 Attn:			
Project #: 2008-016 Project Owner: Strongert Name: Boxe 6 LAT. Project Location: 1. Boxe 6 LAT. Sampler Name: Lab I.D. Sample I.D. REPORTED BY A SAMPLE OF	# CONTRINCES ## CONT	DS /8/208 XIII 3 IIINE 2 IIINE	73	
medy for any or shall be de s, including w under by Car	9 whether based in contract or tort, shall be limited to the amount pai d unless made in writing and received by Cardinal within 30 days afte lion, business interruptions, loss of use, or loss of profits incurred by c		Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.	
Received By: Alime: Time: Time: Time:	ed By:	H SAB	No Add'l Pax#:	
Delivered By: (Circle One) Cool Intact (Init Sample Condition CHECK Sample Condition CHECK Cool Intact (Init A Yes T Yes T Cardinal cannot accept verbal changes. Please fax written change to a rear	Sample Condition CHECKED BY: Cool Intact M Yes M			



ANALYTICAL RESULTS FOR SOUTHERN UNION GAS SERVICES

ATTN: TONY SAVOIE P.O. BOX 1226

JAL, NM 88252

FAX TO: (575) 395-2092

Receiving Date: 06/20/08

Reporting Date: 06/20/08 Project Number: 2008-016

Project Name: BOYD 6" LAT.

Project Location: I. BOYD RANCH

% Recovery

Relative Percent Difference

Analysis Date: 06/20/08

Sampling Date: 06/20/08 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AB

Analyzed By: KS

CI

102

2.0

LAB NO.	SAMPLE ID	(mg/kg)
H15028-1	PR @ 7'	272
H15028-2	PR @ 9'	128
H15028-3	PR @ 11'	96
H15028-4	PR @ 13'	160
H15028-5	PR @ 14' 6"	112
H15028-6	14' S of RR @ 5'	448
Quality Contro	ol	510
True Value Q	C	500

METHOD: Standard Methods 4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

Bristan Spato

06/20/08 Date

H15028 SUGS

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240
(575) 393-2326 Fax (575) 393-2476

Company Name:	(575) 393-2326 Fax (575) 393-2476		Page Z of Z
Project Manager:	1000	BILL TO	ANALYSIS REQUEST
	SION D > PO VOIE	P.O. #:	
Address: 610	COMMERCE POBOX 1226	Company: SAME	
City:	State: NM Zip: 88252	- Attn:	
Phone #: 575-395-211	'& Fax#:		
Project #: 2 @	2008-016 Project Owner:	City:	
Project Name:	BoxD 6" LAT.	State: Zin:	
Project Location:	I-Boyd RANCH	#	
Sampler Name:	Non Sheen	Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
LablD	ABTAV		
	APAR MATHOO MATE OUND PARTE OUND		22
H15028-1	M 9 # ~	DATE	
-2	1000	6/400 4:00	2
-3	,	-	7
h-	PR/08/13	+	7
2-	DRO14'6"		
10-	450F MB5 611	1	3
PLEASE NOTE: Liability and Dan analyses. All claims including the	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligance and any other cause where near the client for the	act or tort, shall be limited to the amount paid by the client f	
service. In no event shall Cardinal be lia affiliates or successors arising out of or re Sampler Relinguished.	service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitated tubes made in writing and received by Cardinal within 30 days after completion of the applicable affiliates or successors arising out of or related to the performance of expires, hereunder by Cardinal regardless or successors arising out of or related to the performance of expires hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise.	W anyed utiless made in writing and received by Cardinal within 30 days after completion of the limitation. Useriness interruptions, loss of use, or loss of profits incurred by client, its subsidiarie regardless of whether such clinin is brased upon any of the above stated reasons or otherwise	of the applicable 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.
	9/25/08 Ke	Phone Result:	ult:
There	Time: 24	Fax Result: REMARKS:	No
Relinquished By:	Date: Received By:	7	7 0 0 0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

CHECKED BY: (Initials)

Sample Condition
Cool Intact
X Yes X Yes
No No

Temp.

Delivered Bv: (Circle One)

Time:

Analytical Report 454258

for Southern Union Gas Services- Monahans

Project Manager: Ben Arguijo
6-Inch Lateral
(RP-1877)
27-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)





27-DEC-12

Project Manager: Ben Arguijo

Southern Union Gas Services- Monahans

801 South Loop 464 Monahans, TX 79756

Reference: XENCO Report No(s): 454258

6-Inch Lateral

Project Address: Lea County, NM

Ben Arguijo:

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) 454258. 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. 454258 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 454258



Southern Union Gas Services- Monahans, Monahans, TX

6-Inch Lateral

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Northeast SW @ 5'	S	12-13-12 13:00		454258-001
Northwest SW @ 3'	S	12-13-12 13:20		454258-002
Southeast SW @5'	S	12-13-12 13:50		454258-003
Southwest SW @8'	S	12-13-12 14:10		454258-004
14' South of PR @ 7'	S	12-13-12 15:00		454258-005

CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans

Project Name: 6-Inch Lateral



Project ID:(RP-1877)Report Date: 27-DEC-12Work Order Number(s):454258Date Received: 12/17/2012

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

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Contact: Ben Arguijo

Project Location: Lea County, NM

Certificate of Analysis Summary 454258

Southern Union Gas Services- Monahans, Monahans, TX



Project Id: (RP-1877) Project Name: 6-Inch Lateral

Date Received in Lab: Mon Dec-17-12 09:40 am

Report Date: 27-DEC-12

Project Manager: Nicholas Straccione

							1 Toject Mai	iager: T	vicioias strac	CIOHE	
Lab Id:	454258-0	01	454258-0	02	454258-0	003	454258-0	04	454258-0	005	
Field Id:	Northeast SW	7 @ 5'	Northwest SW	/ @ 3'	Southeast SV	W @5'	Southwest SV	V @8'	14' South of P	'R @ 7'	
Depth:											
Matrix:	SOIL		SOIL		SOIL	,	SOIL		SOIL		
Sampled:	Dec-13-12	13:00	Dec-13-12 1	3:20	Dec-13-12	13:50	Dec-13-12 1	14:10	Dec-13-12	15:00	
Extracted:					Dec-21-12	14:30			Dec-17-12	10:20	
Analyzed:					Dec-21-12	19:38			Dec-17-12	11:56	
Units/RL:					mg/kg	RL			mg/kg	RL	
					ND	0.00122			ND	0.00130	
					ND	0.00243			ND	0.00261	
					ND	0.00122				0.00130	
'					ND						
'					ND				ND		
					ND	0.00122			ND	0.00130	
Extracted:	Dec-18-12	15:29	Dec-18-12 1	6:03	Dec-18-12	16:21	Dec-18-12 1	16:38	Dec-18-12	16:56	
Analyzed:	Dec-18-12	15:29	Dec-18-12 1	6:03	Dec-18-12	16:21	Dec-18-12 1	16:38	Dec-18-12	16:56	
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
	31.1	1.38	59.1	1.36	20.0	1.21	26.3	1.39	65.8	1.31	
Extracted:											
Analyzed:	Dec-17-12	15:00	Dec-17-12 1	5:00	Dec-17-12	15:00	Dec-17-12 1	15:08	Dec-17-12	15:08	
Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	
	26.0	1.00	26.4	1.00	17.7	1.00	27.9	1.00	23.2	1.00	
Extracted:	Dec-18-12	14:00	Dec-18-12 1	4:00	Dec-18-12	14:00	Dec-18-12 1	14:00	Dec-18-12	14:00	
Analyzed:	Dec-18-12	17:13	Dec-18-12 1	7:44	Dec-18-12	18:14	Dec-18-12 1	18:47	Dec-18-12	19:20	
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
	ND	20.2	ND	20.3	34.4	18.2	ND	20.8	ND	19.4	
	ND	20.2	ND	20.3	900	18.2	ND	20.8	ND	19.4	
	ND	20.2	ND	20.3	30.8		ND	20.8	ND	19.4	
	ND	20.2	ND	20.3	965	18.2	ND	20.8	ND	19.4	
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Analyzed: Analyzed:	Field Id: Northeast SW	Field Id: Depth: Matrix:	Field Id: Northeast SW @ 5' Northwest SW Depth: Matrix: SOIL SOIL Sampled: Dec-13-12 13:00 Dec-13-12 1 Extracted: Analyzed: Dec-18-12 15:29 Dec-18-12 1 Units/RL: mg/kg RL mg/kg Units/RL: Mg/kg RL mg/kg Extracted: Analyzed: Dec-17-12 15:00 Dec-17-12 1 Units/RL: % RL % Extracted: Analyzed: Dec-18-12 14:00 Dec-18-12 1 Analyzed: Dec-18-12 14:00 Dec-18-12 1 Analyzed: Units/RL: mg/kg RL mg/kg ND 20.2 ND ND 20.2 ND ND 20.2 ND ND 20.2 ND	Field Id: Northeast SW @ 3' Depth: Matrix: SOIL SOIL Dec-13-12 13:20 Extracted: Analyzed: Dec-13-12 13:20 Dec-13-12 13:20 Extracted: Analyzed: Dec-18-12 13:29 Dec-18-12 16:03 Analyzed: Dec-18-12 15:29 Dec-18-12 16:03 Units/RL: mg/kg RL mg/kg RL Extracted: Analyzed: Dec-17-12 15:00 Dec-17-12 15:00 Dec-17-12 15:00 Dec-17-12 15:00 Extracted: Analyzed: Pec-18-12 14:00 Dec-18-12 14:00 Dec-18-12 14:00 Dec-18-12 14:00 Dec-18-12 17:44 Dec-18-12 17:44 Mg/kg RL Mg/kg RL Units/RL: mg/kg RL mg/kg RL Mg/kg RL Mg/kg RL Units/RL: mg/kg RL mg/kg RL Mg/kg RL ND 20.2 ND 20.3 ND 20.3 ND 20.2 ND 20.3 ND 20.2 ND 20.3	Field Id: Northeast SW @ 3' Southeast SV Depth: Matrix: SOIL SOIL	Field Id: Depth: Northeast SW @ 5' Northwest SW @ 3' Southeast SW @ 5' Matrix: SOIL SOIL	Lab Id: 454258-001 454258-002 454258-003 454258-003 454258-003 454258-003 454258-003 454258-003 454258-003 454258-003 454258-003 454258-003 454258-003 454258-003 454258-003 454258-003 454258-003 454258-003 454258-003 454258-003 454258-003 5001 Southwast SW Southwast SW SOIL Southwast SW Southwast SW Southwast SW SOIL Southwast SW Southwast SW Southwast SW SOIL Southwast SW S	Lab Id: 454258-001 454258-002 454258-003 454258-004 Field Id: Northeast SW @ 5' Northwest SW @ 3' Southeast SW @ 5' Southwest SW @ 8' Matrix: SOIL SOID<	Lab Id: 454258-001 454258-002 454258-003 454258-004 ADD 454258-004 ADD 454258-004 ADD 454258-004 ADD 454258-004 ADD ADD	Field Id: Depth: Northwest SW ⊕ 3' Southeast SW ⊕ 5' Southwest SW ⊕ 8' 14' South of PR ⊕ 7' Matrix: SOIL SOIL

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 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.

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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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	

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^{*} Surrogate recovered outside laboratory control limit.



Project Name: 6-Inch Lateral

Work Orders: 454258, 454258 **Project ID:** (RP-1877)

Units: mg/kg Date Analyzed: 12/17/12 11:56	SU	RROGATE RI	ECOVERY S	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0258	0.0300	86	80-120	

SURROGATE RECOVERY STUDY Units: mg/kg Date Analyzed: 12/18/12 17:13 Amount True Control TPH By SW8015 Mod Recovery Found Amount Limits Flags [A] [B] %R %R [D] **Analytes** 1-Chlorooctane 89.5 99.7 70-135 o-Terphenyl 44.2 49.9 89 70-135

Units: mg/kg Date Analyzed: 12/18/12 17:44	SU	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	86.7	99.6	87	70-135		
o-Terphenyl	43.1	49.8	87	70-135		

Units: mg/kg Date Analyzed: 12/18/12 18:14	SU	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	87.9	100	88	70-135		
o-Terphenyl	48.5	50.1	97	70-135		

Units: mg/kg Date Analyzed: 12/18/12 18:47	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	86.5	99.8	87	70-135	
o-Terphenyl	43.1	49.9	86	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project ID: (RP-1877)

Project Name: 6-Inch Lateral

Work Orders: 454258, 454258

Units: mg/kg Date Analyzed: 12/18/12 19:20	SU	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	88.0	99.5	88	70-135		
o-Terphenyl	43.0	49.8	86	70-135		

Lab Batch #: 903510 **Sample:** 454258-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 12/21/12 19:38	SU	RROGATE RI	ECOVERY S	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0250	0.0300	83	80-120	
4-Bromofluorobenzene	0.0245	0.0300	82	80-120	

Lab Batch #: 903016 Sample: 631322-1-BLK / BLK Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/17/12 09:54	Su	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0296	0.0300	99	80-120		
4-Bromofluorobenzene	0.0271	0.0300	90	80-120		

Lab Batch #: 903201 Sample: 631430-1-BLK / BLK Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/18/12 16:44	SU	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	93.7	99.8	94	70-135		
o-Terphenyl	45.7	49.9	92	70-135		

Lab Batch #: 903510 Sample: 631627-1-BLK / BLK Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/21/12 16:18	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0258	0.0300	86	80-120		
4-Bromofluorobenzene	0.0304	0.0300	101	80-120		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: 6-Inch Lateral

Work Orders: 454258, 454258 **Project ID:** (RP-1877)

Lab Batch #: 903016 Sample: 631322-1-BKS / BKS Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/17/12 09:26	SU	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0305	0.0300	102	80-120		
4-Bromofluorobenzene	0.0268	0.0300	89	80-120		

Lab Batch #: 903201 Sample: 631430-1-BKS / BKS Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/18/12 15:40	Date Analyzed: 12/18/12 15:40 SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	96.9	99.8	97	70-135	
o-Terphenyl	56.8	49.9	114	70-135	

Lab Batch #: 903510 Sample: 631627-1-BKS / BKS Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/21/12 15:10	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes	[]	[-]	[D]	,,,,,	
1,4-Difluorobenzene	0.0309	0.0300	103	80-120	
4-Bromofluorobenzene	0.0346	0.0300	115	80-120	

Lab Batch #: 903016 Sample: 631322-1-BSD / BSD Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/17/12 09:38	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0345	0.0300	115	80-120	
4-Bromofluorobenzene	0.0312	0.0300	104	80-120	

Lab Batch #: 903201 Sample: 631430-1-BSD / BSD Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/18/12 16:15	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod			Control Limits %R	Flags	
Analytes			[D]		
1-Chlorooctane	88.9	99.9	89	70-135	
o-Terphenyl	52.8	50.0	106	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: 6-Inch Lateral

Work Orders: 454258, 454258 **Project ID:** (RP-1877)

Lab Batch #: 903510 Sample: 631627-1-BSD / BSD Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/21/12 15:27	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount True Found Amount Recovery [A] [B] %R		Control Limits %R	Flags	
Analytes			[D]		
1,4-Difluorobenzene	0.0294	0.0300	98	80-120	
4-Bromofluorobenzene	0.0248	0.0300	83	80-120	

Units: mg/kg Date Analyzed: 12/17/12 15:19	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B			Control Limits %R	Flags	
Analytes			[D]		
1,4-Difluorobenzene	0.0322	0.0300	107	80-120	
4-Bromofluorobenzene	0.0283	0.0300	94	80-120	

Units: mg/kg Date Analyzed: 12/19/12 02:09	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes			ردا		
1-Chlorooctane	94.3	99.8	94	70-135	
o-Terphenyl	55.6	49.9	111	70-135	

Lab Batch #: 903510 **Sample:** 454482-028 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 12/21/12 20:11	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0304	0.0300	101	80-120	

Units: mg/kg Date Analyzed: 12/17/12 15:36	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount True Found Amount Recovery [A] [B] %R		Control Limits %R	Flags	
Analytes			[D]		
1,4-Difluorobenzene	0.0356	0.0300	119	80-120	
4-Bromofluorobenzene	0.0325	0.0300	108	80-120	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: 6-Inch Lateral

Work Orders: 454258, 454258 **Project ID:** (RP-1877)

Units: mg/kg Date Analyzed: 12/19/12 02:39	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	95.7	99.9	96	70-135	
o-Terphenyl	51.7	50.0	103	70-135	

Lab Batch #: 903510 **Sample:** 454482-028 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 12/21/12 20:27	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0307	0.0300	102	80-120	
4-Bromofluorobenzene 0.0297 0.0300 99 80-		80-120			

Surrogate Recovery [D] = 100 * A / B

^{*} Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



BS / BSD Recoveries



Project Name: 6-Inch Lateral

Work Order #: 454258, 454258

Date Prepared: 12/17/2012

Project ID: (RP-1877) **Date Analyzed:** 12/17/2012

Analyst: KEB **Lab Batch ID:** 903016

Sample: 631322-1-BKS

Units:

Batch #: 1

Matrix: Solid

s: 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	< 0.00101	0.101	0.0876	87	0.0996	0.110	110	23	70-130	35	
Toluene	< 0.00201	0.101	0.0888	88	0.0996	0.111	111	22	70-130	35	
Ethylbenzene	< 0.00101	0.101	0.0872	86	0.0996	0.107	107	20	71-129	35	
m_p-Xylenes	< 0.00201	0.201	0.187	93	0.199	0.227	114	19	70-135	35	
o-Xylene	< 0.00101	0.101	0.0906	90	0.0996	0.113	113	22	71-133	35	

Analyst: KEB **Date Prepared:** 12/21/2012 **Date Analyzed:** 12/21/2012

Matrix: Solid **Lab Batch ID:** 903510 **Batch #:** 1 **Sample:** 631627-1-BKS

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY Units: mg/kg

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	<0.000996	0.0996	0.111	111	0.0998	0.0918	92	19	70-130	35	
Toluene	< 0.00199	0.0996	0.113	113	0.0998	0.0966	97	16	70-130	35	
Ethylbenzene	< 0.000996	0.0996	0.111	111	0.0998	0.0913	91	19	71-129	35	
m_p-Xylenes	< 0.00199	0.199	0.238	120	0.200	0.193	97	21	70-135	35	
o-Xylene	< 0.000996	0.0996	0.114	114	0.0998	0.0891	89	25	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



BS / BSD Recoveries



Project Name: 6-Inch Lateral

Work Order #: 454258, 454258

Project ID: (RP-1877)

Analyst: JOL

Date Prepared: 12/18/2012

Date Analyzed: 12/18/2012

Lab Batch ID: 903211

Sample: 631436-1-BKS **Batch #:** 1

Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

	Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
1	Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				.
	Chloride	< 0.500	50.0	52.7	105	50.0	52.7	105	0	80-120	20	

Analyst: KEB Date Prepared: 12/18/2012 Date Analyzed: 12/18/2012

Lab Batch ID: 903201 Sample: 631430-1-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	1030	103	999	949	95	8	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	998	999	100	999	930	93	7	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: 6-Inch Lateral



Work Order #: 454258

Project ID: (RP-1877) **Lab Batch #:** 903211

Date Prepared: 12/18/2012 Analyst: JOL **Date Analyzed:** 12/18/2012 **QC- Sample ID:** 454258-001 S Batch #: Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY Reporting Units: mg/kg

Reporting Cines. mg/kg	MATE	CIA / WIA	I KIA SI IKE	RECO	EKIBIO	D1
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]				
Chloride	31.1	138	172	102	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: 6-Inch Lateral

Work Order #: 454258 Project ID: (RP-1877)

Lab Batch ID: 903016 **QC- Sample ID:** 454259-002 S **Batch #:** 1 **Matrix:** Soil

 Date Analyzed: 12/17/2012
 Date Prepared: 12/17/2012
 Analyst: KEB

Reporting Units: mg/kg		M	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
BTEX by EPA 8021B	Parent Sample Result	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Benzene	< 0.00114	0.114	0.108	95	0.114	0.111	97	3	70-130	35	
Toluene	< 0.00227	0.114	0.109	96	0.114	0.114	100	4	70-130	35	
Ethylbenzene	< 0.00114	0.114	0.101	89	0.114	0.107	94	6	71-129	35	
m_p-Xylenes	< 0.00227	0.227	0.213	94	0.228	0.223	98	5	70-135	35	
o-Xylene	< 0.00114	0.114	0.100	88	0.114	0.118	104	17	71-133	35	

Lab Batch ID: 903510 **QC- Sample ID:** 454482-028 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/21/2012 Date Prepared: 12/21/2012 KEB

Reporting Units: mg/kg		M	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Benzene	< 0.00108	0.108	0.0910	84	0.108	0.102	94	11	70-130	35	
Toluene	< 0.00216	0.108	0.0942	87	0.108	0.104	96	10	70-130	35	
Ethylbenzene	< 0.00108	0.108	0.0863	80	0.108	0.0973	90	12	71-129	35	
m_p-Xylenes	< 0.00216	0.216	0.180	83	0.216	0.206	95	13	70-135	35	
o-Xylene	< 0.00108	0.108	0.0882	82	0.108	0.0993	92	12	71-133	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



Form 3 - MS / MSD Recoveries



Project Name: 6-Inch Lateral

Work Order #: 454258 Project ID: (RP-1877)

Lab Batch ID: 903201 **QC- Sample ID:** 454258-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/19/2012 Date Prepared: 12/18/2012 Analyst: KEB

Reporting Units: mg/kg		M	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
TPH By SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	<19.5	1300	1400	108	1300	1320	102	6	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<19.5	1300	1350	104	1300	1300	100	4	70-135	35	



Sample Duplicate Recovery



Project Name: 6-Inch Lateral

Work Order #: 454258

Lab Batch #: 903085 **Project ID:** (RP-1877)

 Date Analyzed:
 12/17/2012 11:55
 Date Prepared:
 12/17/2012
 Analyst: WRU

 QC- Sample ID:
 454205-001 D
 Batch #:
 1
 Matrix:
 Soil

Reporting Units: %	SAMPLE A	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	1.16	1.11	4	20	

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:	Ben J. Arguijo; Joel Lov	vry	-	<u> </u>										-	_ Pr	ojec	t Na	me:	6-In	ch L	ate	ral						
	Company Name	Basin Environmental Se	rvice T	echnol	logies, LLC												P	roje	ct #:	(RP	-187	7)						<u> </u>	
	Company Address:	P.O. Box 301				<u> </u>											Proj	ect l	_oc:	Lea (Coun	ty, N	ım						
	City/State/Zip:	Lovington, NM 88260							:	: .	:					- -						: :		on Ga	as	::			
	Telephone No:	(E7E)20C 2270				Fay No.	:			00.4	400				:	_				- -					- 11			-	
		(575)396-2378				Fax No:				96-1					-	Repor	t Fo	rma	t: I	<u> </u>	tand	ard		Ш	TRRP		ЦΝ	IPDES	S
	Sampler Signature:	Wel Ju	4	$\frac{1}{\sqrt{\chi}}$	· · · · · · · · · · · · · · · · · · ·	e-mail:		<u>pm</u>	(W)	oası	nenv	.co	<u>n</u> _							:			F			:		<u> </u>	-
(lab use		E A 10		U																TCL		Inaly	ze F	or:	<u> </u>	op	ГТ	۔ اٍ ⊢	1.
ORDE	r#:サンサム	<i>2</i> 8						I	Pr	eser	vation	. & #	of Co	ntair	ers	Matrix		1	ТТ	TOTA	_	-		X	:			8, 72 !	
LAB# (lab use only)		.D CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers		ევ		43.004 10.004	8			DW = Drinking Water St = Sludg CW = Groundwater S = Soil/Soil NP = Non-Potable Specify Othe	18	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	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	RUSH TAT (Pre-Schedule) 24, 48	
01	Northea	ast SW @ 5'			12/13/2012	1300	_	1	Х			1				Soil	x		J			ĺ		Ť		X		十	X
०३	Northwe	est SW @ 3'			12/13/2012	1320		1	Х							Soil	x					T	П	一	1	Х			x
O 3	Southea	ast SW @ 5'			12/13/2012	1350		1	х	- ; -						Soil	х									x		1	x
-04	Southwe	est SW @ 8'			12/13/2012	1410		1	Х							Soil	х									x			x
රා	14' Sout	h of PR @ 7'			12/13/2012	1500		1	Х					Τ		Soil	x							x	1	$ _{x}$		1	x
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XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 12/17/2012 09:40:00 AM

Work Order #: 454258

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)?		-1.5
#2 *Shipping container in good	condition?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on ship	oping container/ cooler?	Yes
#5 Custody Seals intact on sam	ple bottles?	Yes
#6 *Custody Seals Signed and	dated?	Yes
#7 *Chain of Custody present?		Yes
#8 Sample instructions complet	e on Chain of Custody?	Yes
#9 Any missing/extra samples?		No
#10 Chain of Custody signed wl	nen relinquished/ received?	Yes
#11 Chain of Custody agrees w	ith sample label(s)?	Yes
#12 Container label(s) legible a	nd intact?	Yes
#13 Sample matrix/ properties a	gree with Chain of Custody?	Yes
#14 Samples in proper contained	er/ bottle?	Yes
#15 Samples properly preserve	d?	Yes
#16 Sample container(s) intact?		Yes
#17 Sufficient sample amount for	or indicated test(s)?	Yes
#18 All samples received within	hold time?	Yes
#19 Subcontract of sample(s)?		Yes
#20 VOC samples have zero he	eadspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserve	d with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserv	ed with NaAsO2+NaOH, ZnAc+NaOH?	Yes
Must be completed for after-h	ours delivery of samples prior to placing	ı in the refrigerator
Analyst:	PH Device/Lot#:	
, maryon	THE STREET LOUIT.	
Checklist complete	d by:	Date:
Chacklist raviawa		

Date:

<u>District I</u> 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

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

Form C-141 Revised October 10, 2003

MAR 08 2011

Submit 2 Copies to appropriate
HOBBSOC District Office in accordance
with Rule 116 on back

side of form

Release Notification and Corrective Action

						OPERAT	TOR		🛛 Initia	al Report		Final Rep	ort
Name of Co	mpany	Southern U	s Services	1	Contact Cur	t Stanley							
Address		801 S. Loop	464, Mo	nahans, TX 797	56 ′	Telephone No. 575-390-7595							\neg
Facility Nan	ne	6 inch Lat	eral			Facility Type Natural Gas Pipeline							
C C O	04-4-	CNI M.											
Surface Own	ner State	or New Me	xico			Lease No. 30-025-38822							
LOCATION OF RELEASE													
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/W	est Line	County		*	
D	2	22S	37Ē							Lea			
Latitude 32 degrees 25.341' North Longitude 103 degrees 08.405 West													
NATURE OF RELEASE													
Type of Relea	ase Natur	al Gas, Crude	Volume of Release 7 BBLS Volume Recovered None										
Source of Rel					Date and Hour of Occurrence Date and Hour of I							\neg	
		•			February 2	3, 2011 – Time		ebruary 23, 2011 – 0700 hours					
						Unknown							
Was Immedia	ite Notice (L V	ING MAGABA		If YES, To Whom?							
			No 🛛 Not Rec	quired	d Geoffrey Leking – NMOCD Hobbs District Office								
By Whom? C			Date and Hour February 23, 2011 – 1554 hours							_			
Was a Watero	course Read	_	1 Nr.		If YES, Volume Impacting the Watercourse.								
		L	∣ Yes ⊠) NO									
If a Watercourse was Impacted, Describe Fully.*													
Describe Cau	se of Probl	em and Reme	dial Action	n Taken.*									\neg
				developed a leak d									
produced wat	er. During	initial respons	se activitie	s the pipeline was:	fitted w	ith a tempora	ry pipeline clamp	to mitig	gate the rel	ease. Follow	≀ing ini	tial respons	se
activities, the	affected pi	peline segmei	nt will be s	slip lined.									Ì
Describe Area	Affected	and Cleanup A	Action Tak	en.*									\dashv
				feet and occupies	a calich	e well pad. T	he release will be	e remedia	ated accord	ling to NMC	OCD reg	gulatory	1
guidelines.													
T.1	C 41-441-5		· · · · · · · · · · · ·			1	1 1 1		1.1			 _	_
				is true and completed is true and completed is true and completed in the contain re									
nublic health	or the envi	ronment. The	e acceptanc	re of a C-141 repor	t hv the	NMOCD ma	arked as "Final R	enort" de	ons for feli oes not reli	eases willell leve the one	may en	luanger Hiability	
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 la	ws_and/or regu	ılations.										
Signature: A Sunly						OIL CONSERVATION DIVISION							
						ENVENCINEER:							
Printed Name: Curt D. Stanley													
						Approved by District Supervisor:							
mu FHO C									ω	0	7	2	
Title: EHS Co	impiiance s	specialist				Approval Date	e: 03 08 111	E	expiration	Date: 05	081	11	\dashv
E-mail Addre	ss: curt.stai	nlev@sug.con	n			Conditions of	Approval:	BMIT	FINAL	_			
E-mail Address: curt.stanley@sug.com						Conditions of Approval: SUBMIT FIN				Attached []			
Date: February 28, 2011 Phone: 575-390-7595 RP-03-11-2690) I					
Attach Addit	ional Shee	ts If Necess	arv										

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

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

side of form

Form C-141

Revised October 10, 2003

Release Notification and Corrective Action

						OPERATOR I				ıl Report	□ Final Rep	port
Name of Co	ompany	Southern Un	ion Gas	Services, Ltd.		Contact			Crystal Callaway			
Address		801 S. Loop	Telephone	·	(817) 302-9407							
Facility Nat	me: (6" Lateral	Facility Type				Natural Gas Gathering					
Surface Ow	ner Irwin	Boyd	Federal Lea			Lease N	ease No. 30-025-10277					
LOCATION OF RELEASE												
						n/South Line Feet from the East/V			West Line County Lea			
	G 15 225 37E											
Latitude N32 23.667 Longitude W103 08.939												
NATURE OF RELEASE												
Type of Rele	ease: N	atural Gas				Volume of Release Unknown Volume				Recovered None		
Source of Re	elease: 12	" Natural Gas	Date and I- Unknown				e and Hour of Discovery 5/22/08 ne: 8:00 a.m.					
Was Immedi	ate Notice (If YES, To Whom?				, o a.i.i.		
D. 11/10			Yes 2	No Not Re	quired	Date and Hour:						
By Whom? Was a Water	rcourse Read	ched?				If YES, Volume Impacting the Watercourse.						
			Yes	⊠ No								
If a Waterco	urse was Im	pacted, Descr	ibe Fully.	*	-							
Describe Cause of Problem and Remedial Action Taken:												
A 6" natural gas pipeline had apparently leaked at sometime prior to the construction of a caliche well pad over the leak location. Chesapeake Company												
employed EPI to remove the caliche pad and restore the surface back to pasture land under the direction of the BLM. While removing the caliche the discolored soil was discovered and reported to Southern Union Gas Services.												
Describe Area Affected and Cleanup Action Taken.* On 5/29/08 a Site Assessment was performed to determine if the pipeline was still active or leaking.												
It was determined that the affected area of leaking pipe had previously been repaired. Approximately 3080 sq. ft. of pasture was affected by the release, Remediation activities will follow the NMOCD Guidelines.												
	Between June 12 and 26, 2008, remediation activities were conducted at the 6" Lateral Release Site by an environmental contractor that is no longer affiliated with the site. Environmental Records indicate 396 yd ³ of impacted material was transported to the SUG Landfarm during this time. On											
December 7, 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 results from the confirmation soil samples suggested												
previous ren	previous remediation activities met the requirements of the NMOCD.											
Please reference 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. OIL CONSERVATION DIVISION												
Simmatura I	101	OIL CONSERVATION DIVISION										
Signature:	\	Approved by District Supervisor:										
Printed Nan	ne: Crystal											
Title: Senio	or Environn	nental Remedi	ation Spec	cialist	1	Approval Date:			Expiration Date:			
E-mail Address: Crystal.Callaway@Regencygas.com						Conditions of Approval:						
Date: 10/3	12/14			Phone: (817) 302-	-9407							