

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	Rose Slade
Address	801 S. Loop 464, Monahans, TX, 79756	Telephone No.	432-940-5147
Facility Name: L-5 Line (RP-2086) Lea County Field Dept.	Facility Type		Natural Gas Gathering
Surface Owner	Millard Deck	Mineral Owner: State	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	22	21S	37E					Lea

Latitude N32 27.960 Longitude W103 09.080

NATURE OF RELEASE

Type of Release	Crude Oil, Produced water and Natural Gas	Volume of Release	60 mcf natural gas & 5 bbls crude oil & produced water	Volume Recovered	0 bbls
Source of Release	16" Natural Gas Pipeline	Date and Hour of Occurrence	Unknown	Date and Hour of Discovery	2/11/09 9:00 a.m.
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	M. Whitaker		
By Whom?	Tony Savoie	Date and Hour:	2/11/09 9:06 a.m.		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken:

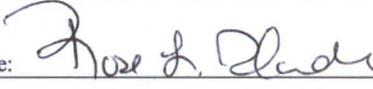
The 10" Pipeline operating at approximately 30 p.s.i. developed a leak; a repair crew dispatched to the facility to shut in the line segment. H2S reading approximately 40 ft down-wind measured 1.1 p.p.m. The was not enough fluid standing to obtain a sample for and API gravity test. A temporary clamp was installed on the line at approximately 11:30 a.m. Permanent repairs were made 2/16/09, approximately 400 ft. of 10" Poly-pipe was installed.

Describe Area Affected and Cleanup Action Taken. An area measuring approximately 1,050 sq. ft. of pasture land was affected by the release. All of the affected release area will be remediated in accordance to the NMOCD Guidelines for leaks and spills.

Prior to June 22, 2012, remediation activities were conducted at the L-5 Line Release Site by an environmental contractor that is no longer affiliated with the site. On September 28, 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: 	OIL CONSERVATION DIVISION	
Printed Name: Rose L. Slade	 Approved by District Supervisor: Environmental Specialist	
Title: EHS Compliance Specialist	Approval Date: 11/14/12	Expiration Date: -
E-mail Address: rose.slade@sug.com	Conditions of Approval: -	
Date: 11-14-2012 Phone: 432-940-5147(cell)	IRP-2086	

PGRL 0905637054
2086

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FEB 18 2009
HOBBSOCD

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Southern Union Gas Services, Ltd.	Contact	Tony Savoie
Address	P.O. Box 1226 Jal, N.M. 88252	Telephone No.	575-395-2116
Facility Name	Lea County Field Dept.	Facility Type	Natural Gas Gathering

Surface Owner: Millard Deck	Mineral Owner: State	Lease No.
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LOCATION OF RELEASE

NEARBY WELL API # 30.025.34803.00.00

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	22	21S	37E					Lea

Latitude N32 27.960 Longitude W103 09.080

WTR 60'

NATURE OF RELEASE

Type of Release : Crude Oil Produced water and Natural Gas	Volume of Release: 60 mcf natural gas & 5 bbls crude oil & produced water	Volume Recovered 0 bbls
Source of Release : 16" Natural Gas Pipeline	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 2/11/09 9:00 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? M. Whitaker	
By Whom? Tony Savoie	Date and Hour: 2/11/09 9:06 a.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
The 10" Pipeline operating at approximately 30 p.s.i. developed a leak; a repair crew was dispatched to the facility to shut in the line segment. H2S readings approximately 40 ft down-wind measured 1.1 p.p.m. There was not enough fluid standing to obtain a sample for and API gravity test. A temporary clamp was installed on the line at approximately 11:30 a.m. Permanent repairs were made 2/16/09, approximately 400 ft. of 10" Poly-pipe was installed.

Describe Area Affected and Cleanup Action Taken. An area measuring approximately 1050 sq. ft. of pasture land was affected by the release. All of the affected release area will be remediated in accordance to the NMOCD guidelines for 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: <i>Tony Savoie</i>	OIL CONSERVATION DIVISION	
Printed Name: John A. Savoie	Approved by District Supervisor <i>[Signature]</i>	
Title: Waste Management and Remediation Specialist	ENVIRONMENTAL ENGINEER	
E-mail Address: tony.savoie@sug.com	Approval Date: 2.18.09	Expiration Date: 4.18.09
Date: 2/18/09 Phone: 575-395-2116	Conditions of Approval: SUBMIT FINAL C.A.I w/ Docs.	Attached <input type="checkbox"/> IRP# 09.2.2086

* Attach Additional Sheets If Necessary

PGRL0905636417

Basin Environmental Service Technologies, LLC

3100 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260

jwlowry@basinenv.com

Office: (575) 396-2378

Fax: (575) 396-1429



REMEDIATION SUMMARY & SITE CLOSURE REQUEST

**SOUTHERN UNION GAS SERVICES
L-5 LINE (1RP-2086)
HISTORICAL RELEASE SITE**

Lea County, New Mexico

Unit Letter "F" (SE/NW), Section 22, Township 21 South, Range 37 East

Latitude 32° 27.960' North, Longitude 103° 09.080' West

NMOCD Reference # 1RP-2086

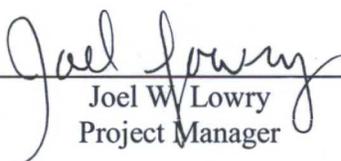
Prepared For:

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

November 2012


Joel W. Lowry
Project Manager

HOBBS OCD
NOV 14 2012
RECEIVED

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 L-5 Line Historical Release Site (1RP-2086). The legal description of the release site is Unit Letter "F" (SE/NW), Section 22, Township 21 South, Range 37 East, in Lea County, New Mexico. The geographic coordinates of the release site are 32° 27.960' North latitude and 103° 09.080' West longitude. The property affected by the release is owned by the Millard Deck Estate. Please reference Figure 1 for a "Site Location Map".

On February 11, 2009, Southern Union discovered a release had occurred on the L-5 Pipeline. The "Release Notification and Corrective Action Form" (Form C-141) indicated failure of a section of ten-inch (10") low-pressure pipeline resulted in the release of approximately five barrels (5 bbls) of a crude oil and produced water mixture and sixty (60) Mcf of natural gas. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office on February 11, 2009. The Form C-141 indicated the release affected approximately one thousand, fifty square feet (1,050 ft²) of pasture land. General photographs of the release site are provided as Appendix A. The Form C-141 is provided as Appendix C.

Previous remediation activities were conducted at the L-5 Line 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 incomplete.

On June 22, 2012, at the request of Southern Union, Basin assumed remediation responsibilities at the L-5 Line Historical Release Site.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 22, Township 21 South, Range 37 East. An NMOCD representative indicated the depth to groundwater is approximately sixty feet (60') below ground surface (bgs) on the initial Form C-141. Based on the NMOCD ranking system, ten (10) 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 L-5 Line Historical Release Site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene – 10 mg/Kg (ppm)

- Benzene, toluene, ethylbenzene and xylene (BTEX) – 50 mg/Kg (ppm)
- Total petroleum hydrocarbons (TPH) – 1,000 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

Beginning February 20, 2009, remediation activities were conducted on the L-5 Release Site by an environmental contractor that is no longer affiliated with the site. Work records indicated approximately one hundred cubic yards (100 yd³) of impacted soil was transported to Southern Union Gas Services Landfarm (Permit # NM-02-0019) for treatment.

On February 23, 2009, seven (7) soil samples (PR @ 8', B-Comp., S1-Comp., S2-Comp., NW-Comp., WW-Comp. and SW-Comp.) were collected from the excavation floor and sidewalls and submitted to Cardinal Laboratories, of Hobbs, New Mexico, for determination of BTEX, TPH and chloride concentrations in accordance with EPA Methods SW 846-8021B, SW 846-8015M and SM 4500 Cl-B, respectively. Laboratory analytical results indicated benzene and BTEX concentrations were less than the appropriate laboratory method detection limit (MDL) for each of the soil samples submitted. Analytical results indicated TPH concentrations ranged from less than the laboratory MDL for soil samples B-Comp., S-1 Comp., S-2 Comp., WW-Comp. and SW-Comp. to 26.9 mg/Kg for soil sample NW-Comp. Chloride concentrations ranged from less than the laboratory MDL for soil sample PR @ 8', B-Comp., and S1-Comp. to 448 mg/Kg for soil sample NW-Comp. 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. Based on laboratory analytical reports from confirmation soil samples, further delineation would be required in the area represented by soil sample NW-Comp.

In addition, six (6) composite soil samples (SP1-Comp., SP2-1-Comp., SP2-2-Comp., SP2-3-Comp., SP2-4-Comp. and SP2-5-Comp.) were collected from the stockpiled material and submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride concentrations. Laboratory analytical results indicated benzene concentration were less than the laboratory MDL for each of the submitted soil samples. Analytical results indicated BTEX concentrations ranged from less than the laboratory MDL for soil samples SP2-1-Comp., SP2-2-Comp. and SP2-3-Comp to 2.332 mg/Kg for soil sample SP1-Comp. Analytical results indicated TPH concentrations ranged from 490 mg/Kg for soil sample SP2-1-Comp. to 3,037 mg/Kg for soil sample SP1-Comp. Chloride concentrations ranged from 96 mg/Kg for soil samples SP-2-1 Comp. and SP2-2 Comp. to 656 mg/Kg for soil sample SP-1 Comp. Historical work records indicate approximately one hundred cubic yards (100 yd³) of impacted material was hauled to Southern Union Gas Services' Landfarm (Discharge Permit # NM-02-0019) for treatment.

On March 2, 2009, the excavation was backfilled with locally purchased, non-impacted soil. Prior to backfilling, the final dimensions of the excavation were approximately thirty-five feet (35') in length, thirty feet (30') in width and (8') or less in depth.

On September 28, 2012, Basin responded to the L-5 Line Historical Release Site. During the initial investigation, no impact was visible, and revegetation was noted. One (1) soil sample (North Sidewall @ 3' bgs) was collected near the northern margin of the disturbed area in an effort to achieve horizontal delineation. The soil sample was submitted to Xenco Laboratories, Inc., of Odessa, Texas, for determination of chloride concentrations in accordance with EPA Method 300/300.1. Laboratory analytical results indicated the chloride concentration was 8.15 mg/Kg. Based on these laboratory analytical results, the northern extent of soil impact had been delineated.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Xenco Laboratories, Inc., 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 Methods 300/300.1 and/or SM 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 excavation floor and sidewalls during the February 23, 2009, sampling event indicated concentrations of benzene, BTEX, TPH and chloride were below NMOCD regulatory remediation action levels in each of the submitted soil samples. Laboratory analytical results from the soil sample collected on September 28, 2012, indicated horizontal delineation had been achieved. 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 L-5 Line Historical Release Site.

6.0 LIMITATIONS

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

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

7.0 DISTRIBUTION

- 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

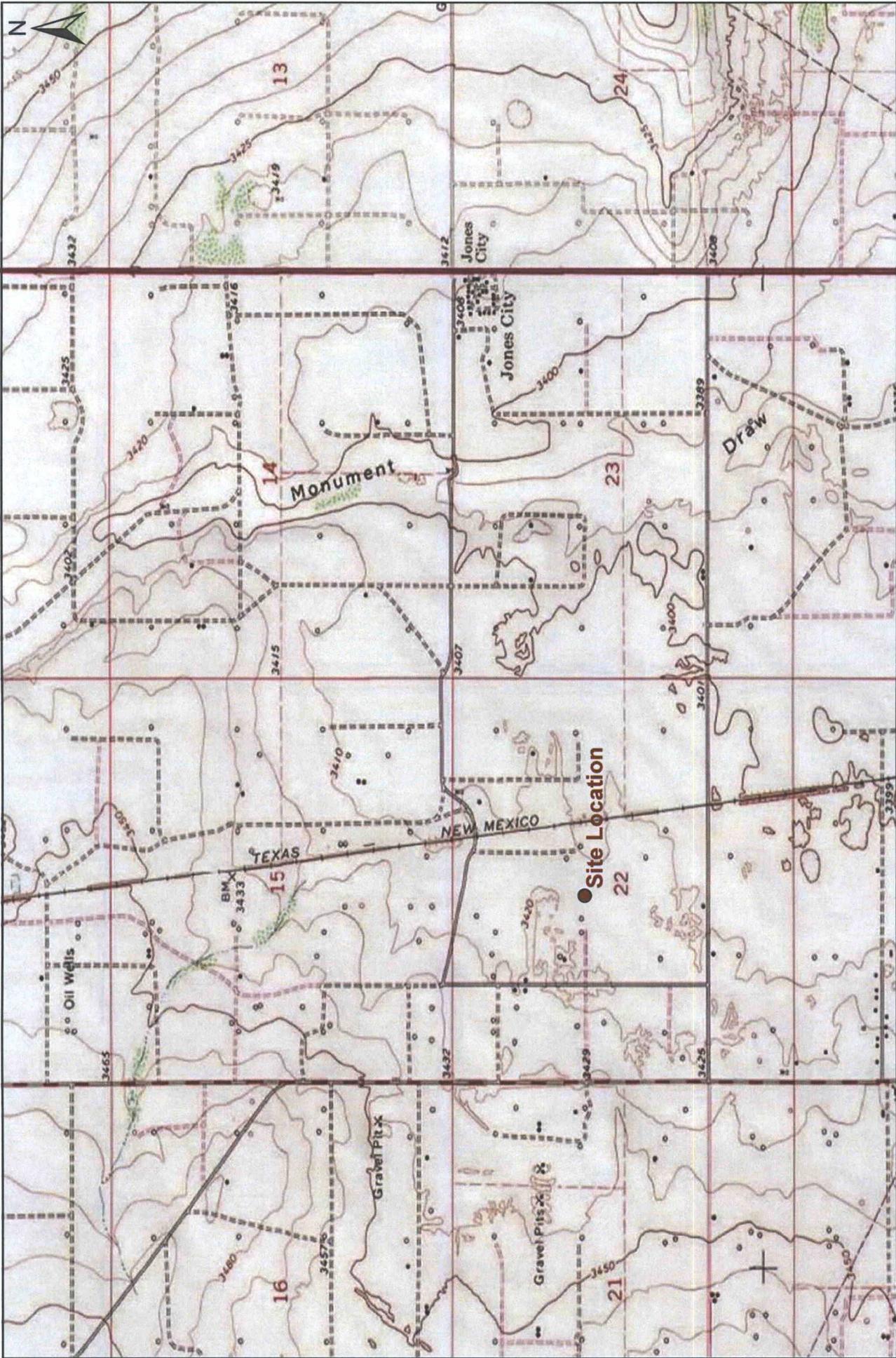


Figure 1
Site Location Map
 Southern Union Gas Services
 L-5 Line Historical
 Lea County, New Mexico
 NMOCD Reference #: 1RP-2086



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

Drawn By: BJA Checked By: JWL
 October 16, 2012 Scale: 1" = 2000'



North Sidewall @ 3' bgs



WW-Composite

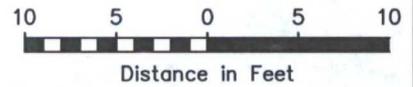
NW-Composite

B Composite

PR @ 8'

SW-Composite

SUG 10" Natural Gas



LEGEND:

- Excavation Extent
- Pipeline
- Road
- Sample Location
- Composite Sample

Figure 2
Site & Sample Location Map
Southern Union Gas Services
L-5 Line (RP-2086)
Lea County, NM

Basin Environmental Services

Scale: 1" = 10'	Drawn By: JWL	Prepared By: BRB
October 9, 2012		

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES

L-5 LINE

HISTORICAL RELEASE SITE

LEA COUNTY, NEW MEXICO

NMOC REF# 1RP-2086

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030				METHOD: 8015M				TOTAL TPH C ₆ -C ₂₈ (mg/Kg)	SM 4500-C1B CHLORIDE (mg/Kg)
				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)		
PR @ 8'	8'	2/23/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.100	<10.0	17.0	<16	<16	
B-Comp.	N/A	2/23/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.0200	<10.0	<10.0	<16	<16	
S1-Comp.	N/A	2/23/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.0200	<10.0	<10.0	<16	<16	
S2-Comp.	N/A	2/23/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.0200	<10.0	<10.0	32	32	
NW-Comp.	N/A	2/23/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.0200	<10.0	26.9	448	448	
WW-Comp.	N/A	2/23/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	0.0297	<10.0	<10.0	128	128	
SW-Comp.	N/A	2/23/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.0200	<10.0	<10.0	32	32	
SP1-Comp.	N/A	2/23/2009	Disposed	<0.050	0.082	0.160	2.09	2.332	107.0	2,930	656	656	
SP2-1-Comp.	N/A	2/23/2009	Disposed	<0.050	<0.0200	<0.050	<0.300	<0.0200	<10.0	490	96	96	
SP2-2-Comp.	N/A	2/23/2009	Disposed	<0.050	<0.0200	<0.050	<0.300	<0.0200	<10.0	613	96	96	
SP2-3-Comp.	N/A	2/23/2009	Disposed	<0.050	<0.0200	<0.050	<0.300	<0.0200	<10.0	560	128	128	
SP2-4-Comp.	N/A	2/23/2009	Disposed	<0.050	<0.0200	0.051	0.737	0.788	92.1	2,360	288	288	
SP2-5-Comp.	N/A	2/23/2009	Disposed	<0.050	<0.0200	<0.050	0.634	<0.0200	28.6	1,520	304	304	
North Sidewall @ 3' bgs	3'	9/28/2012	In-Situ	-	-	-	-	-	-	-	8.15	8.15	
NMOC Standard				10				50			1,000	500	

- = Not analyzed.



Photograph of the initial release at the L-5 Line Historical Release Site.



Photograph of the initial release at the L-5 Line Historical Release Site.



Photograph of the initial excavation at the L-5 Line Historical Release Site.



Photograph of the initial excavation at the L-5 Line Historical Release Site.



Photograph of the L-5 Line Historical Release Site during the site investigation.



Photograph of the L-5 Line Historical Release Site during the site investigation.



Photograph of the advancement of the soil boring at the L-5 Line Historical Release Site.



Photograph of soil sample "North Wall @ 3' bgs" collected from the L-5 Line Historical Release Site.



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
 ANALYTICAL RESULTS FOR
 SOUTHERN UNION GAS SERVICES
 ATTN: TONY SAVOIE
 P.O. BOX 1226
 JAL, NM 88252

Receiving Date: 02/23/09
 Reporting Date: 02/26/09
 Project Number: 2009-007
 Project Name: L5-10"
 Project Location: NE OF EUNICE, NM DECK RANCH

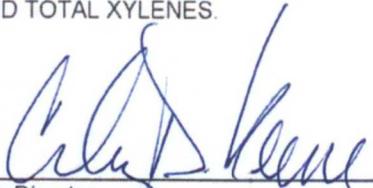
Sampling Date: 02/23/09
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: AB
 Analyzed By: AB/ZL/HM

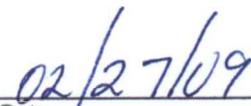
LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₆) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	CI* (mg/kg)
ANALYSIS DATE:		02/25/09	02/25/09	02/25/09	02/25/09	02/25/09	02/25/09	02/25/09
H16951-1	PR @ 8'	<10.0	17.0	<0.050	<0.050	<0.050	<0.300	< 16
H16951-2	B-COMP.	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	< 16
H16951-3	S1-COMP.	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	< 16
H16951-4	S2-COMP.	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	32
H16951-5	NW-COMP.	<10.0	26.9	<0.050	<0.050	<0.050	<0.300	448
H16951-6	WW-COMP.	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	128
H16951-7	SW-COMP.	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	32
H16951-8	SP1-COMP	107	2,930	<0.050	0.082	0.160	2.09	656
H16951-9	SP2-1-COMP.	<10.0	490	<0.050	<0.050	<0.050	<0.300	96
H16951-10	SP2-2-COMP.	<10.0	613	<0.050	<0.050	<0.050	<0.300	96
H16951-11	SP2-3-COMP.	<10.0	560	<0.050	<0.050	<0.050	<0.300	128
H16951-12	SP2-4-COMP.	91.2	2,360	<0.050	<0.050	0.051	0.737	288
H16951-13	SP2-5-COMP.	28.6	1,520	<0.050	<0.050	<0.050	0.634	304
Quality Control		514	584	0.055	0.055	0.054	0.162	500
True Value QC		500	500	0.050	0.050	0.050	0.150	500
% Recovery		103	117	110	110	108	108	100
Relative Percent Difference		3.1	2.4	6.2	7.2	7.2	8.7	< 0.1

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B; CI-: Std. Methods 4500-CI-B

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

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
 AND TOTAL XYLENES.


 Lab Director
 H16951 TBCL SUGS


 Date

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Analytical Report 450010
for
Southern Union Gas Services- Monahans

Project Manager: Ben Arguijo

L-5 Line (RP-2086)

SUG Historical Releases

05-OCT-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)



05-OCT-12

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

Reference: XENCO Report No: **450010**
L-5 Line (RP-2086)
Project Address: Lea County, New Mexico

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 450010. 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. 450010 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 450010



Southern Union Gas Services- Monahans, Monahans, TX

L-5 Line (RP-2086)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
North Wall @ 3' bgs	S	09-28-12 10:00		450010-001



CASE NARRATIVE

Client Name: Southern Union Gas Services- Monahans
Project Name: L-5 Line (RP-2086)



Project ID: SUG Historical Releases
Work Order Number: 450010

Report Date: 05-OCT-12
Date Received: 10/02/2012

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 450010

Southern Union Gas Services- Monahans, Monahans, TX



Project Id: SUG Historical Releases
Contact: Ben Arguijo
Project Location: Lea County, New Mexico

Project Name: L-5 Line (RP-2086)

Date Received in Lab: Tue Oct-02-12 10:35 am
Report Date: 05-OCT-12
Project Manager: Nicholas Straccione

<i>Analysis Requested</i>	Lab Id: 450010-001 Field Id: North Wall @ 3' bgs Depth: Matrix: SOIL Sampled: Sep-28-12 10:00			
Inorganic Anions by EPA 300/300.1 SUB: TX104704215	Extracted: Oct-03-12 18:42 Analyzed: Oct-03-12 18:42 Units/RL: mg/kg RL			
Chloride	8.15 0.920			
Percent Moisture	Extracted: Analyzed: Oct-03-12 14:30 Units/RL: % RL			
Percent Moisture	1.18 1.00			

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

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



Nicholas Straccione
Project Manager

Flagging Criteria

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

* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

PQL Practical Quantitation Limit **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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(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



Project Name: L-5 Line (RP-2086)

Work Order #: 450010

Analyst: TTE

Lab Batch ID: 898007

Sample: 628121-1-BKS

Date Prepared: 10/03/2012

Batch #: 1

Project ID: SUG Historical Releases

Date Analyzed: 10/03/2012

Matrix: Solid

Units: mg/kg

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

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
Inorganic Anions by EPA 300/300.1	<1.00	100	100	100	100	99.9	100	0	80-120	20	
Chloride											

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: L-5 Line (RP-2086)

Work Order #: 450010

Lab Batch #: 898007

Date Analyzed: 10/03/2012

QC- Sample ID: 450010-001 S

Reporting Units: mg/kg

Date Prepared: 10/03/2012

Batch #: 1

Project ID: SUG Historical Releases

Analyst: TTE

Matrix: Soil

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	8.15	92.0	100	100	80-120

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

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

All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Sample Duplicate Recovery



Project Name: L-5 Line (RP-2086)

Work Order #: 450010

Lab Batch #: 897944

Project ID: SUG Historical Releases

Date Analyzed: 10/03/2012 14:30

Date Prepared: 10/03/2012

Analyst: WRU

QC- Sample ID: 450011-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	16.2	16.2	0	15	

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

LAB Order ID # 450010

Company Name: Basin Environmental Service Technologies Address: P.O. 301 Lovington, NM, 88260 Phone #: 575-396-2378 Fax #: 575-396-1429 Contact Person: Rose Slade (SUG) Joel Lowry (Basin) E-mail: pm@basineny.com rose.slade@sug.com Invoice to: Southern Union Gas Services		Project #: SUG Historical Releases Project Name: L-5 Line (RP-2086) Project Location: (include state) Lea County, New Mexico Sampler Signature: <i>Rose Slade</i>	
LAB # (LAB USE ONLY)	FIELD CODE North Wall @ 3' bgs	# CONTAINERS 1	VOLUME/AMOUNT 1
	MATRIX WATER <input checked="" type="checkbox"/> AIR <input type="checkbox"/> SOIL <input type="checkbox"/> SLUDGE <input type="checkbox"/>	PRESERVATIVE METHOD HCL <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/> NONE <input checked="" type="checkbox"/>	SAMPLING DATE 9/28 1000

ANALYSIS REQUEST (Circle or Specify Method No.)	REMARKS: <input type="checkbox"/> Dry Weight Basis Required <input type="checkbox"/> TRRP Report Required <input type="checkbox"/> Check if Special Reporting Limits Are Needed
MTBE 8021B / 602 / 8260B / 624 BTEX 8021B / 602 / 8260B / 624 TPH 418.1 / TX1005 / DRO / TVHC PAH 8270C / 625 Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B / 200.7 TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI GCMS Vol. 8260B / 624 GCMS Semi. Vol. 8270C/625 PCB's 8082 / 608 Pesticides 8081A / 608 BOD, TSS, pH Moisture Content Cl, F, SO ₄ , NO ₃ -N, NO ₂ -N, PO ₄ -P, Alkalinity Na, Ca, Mg, K, TDS, EC Turn Around Time if different from standard	LAB USE ONLY Intact <input type="checkbox"/> Y/N Headspace Y/N/NA Log-in Review Carrier #

Relinquished by: <i>Rose Slade</i> Company: <i>Basin Environmental Service Technologies</i> Date: 10/11 Time: 8:00	Received by: <i>Mark Lowry</i> Company: <i>SUG</i> Date: 10/11 Time: 10:35
Relinquished by: <i>Mark Lowry</i> Company: <i>SUG</i> Date: 10/12 Time: 10:35	Received by: <i>James Smith</i> Company: <i>SUG</i> Date: 10/12 Time: 10:35

Submittal of samples constitutes agreement to Terms and Conditions

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XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan
Date/ Time Received: 10/02/2012 10:35:00 AM
Work Order #: 450010

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)?	0
#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: 10/02/2012 _____

Checklist reviewed by: _____

Date: 10/02/2012 _____