pPAC0611636878

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

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

Surface Owner	Charlie Bettis	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
O	15	21S	37E					Lea

43'

Latitude N32 28.339 Longitude W103 08.923

NATURE OF RELEASE

Type of Release	Natural Gas and crude oil	Volume of Release 71 mcf gas, 15 bbls oil	Volume Recovered 0 bbls
Source of Release	Pipeline	Date and Hour of Occurrence Not Known	Date and Hour of Discovery 4/9/06 10:45 a.m.
Was Immediate Notice Given? ☐ Yes ☒ No ☒ Not Required		If YES, To Whom?	
By Whom?		Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No		If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
The 16" steel gathering pipeline, operating at 22 psi developed a leak, the line was taken out of service & repaired. The normal operating pressure for this line is 20 psi to 30 psi, with a potential H2S content of 4000 ppm.

Describe Area Affected and Cleanup Action Taken.* An area measuring approximately 90ft. by 20 ft. was affected around the immediate leak area, or approximately 1800 sg. Ft. of pasture land was affected by the release. The site will be remediated as per NMOCD guidelines. The amount of the release is on this form under the volume of release, 71 mcf gas and 15 bbls of oil, none recovered.

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

Signature:	*Tony Savoie*	OIL CONSERVATION DIVISION	
Printed Name:	John A. Savoie	Approved by District Supervisor:	
Title:	EH&S Comp. Coord.	Approval Date:	Expiration Date:
E-mail Address:	jasavoie@sidrichgas.com	Conditions of Approval:	Attached ☐
Date: 4/13/06	Phone: 505-395-2116		

* Attach Additional Sheets If Necessary

Southern Union - 21232

incident - nPAC0611636551
application - pPAC0611636878

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

Effective Solutions

REMEDIATION SUMMARY &

SITE CLOSURE REQUEST

SOUTHERN UNION GAS SERVICES
MF-16" BETTIS (1RP-837)
HISTORICAL RELEASE SITE
Lea County, New Mexico
Unit Letter "O" (SW/SE), Section 15, Township 21 South, Range 37 East
Latitude 32° 28.339' North, Longitude 103° 08.923' West
NMOCD Reference # 1RP-837

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
Project Manager

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

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 MF-16" Bettis Historical Release Site (1RP-837). The legal description of the release site is Unit Letter "O" (SW/SE), Section 15, Township 21 South, Range 37 East, in Lea County, New Mexico. The geographic coordinates of the release site are 32° 28.339' North latitude and 103° 08.923' West longitude. The property affected by the release is owned by Mr. Charlie Bettis. Please reference Figure 1 for a "Site Location Map".

On April 9, 2006, Southern Union discovered a release had occurred on the MF-16" Pipeline. The "Release Notification and Corrective Action Form" (Form C-141) indicated failure of a section of sixteen-inch (16") low-pressure pipeline resulted in the release of approximately fifteen barrels (15 bbls) of crude oil and seventy-one (71) mcf of natural gas. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office on April 20, 2006. The Form C-141 indicated the release affected approximately one thousand, eight hundred square feet (1,800 ft^2) of pasture land. General photographs of the release site are provided as Appendix A. The Form C-141 is provided as Appendix D.

On June 22, 2012, at the request of Southern Union, Basin assumed remediation responsibilities at the MF-16" Bettis 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 15, Township 21 South, Range 37 East. An NMOCD representative indicated groundwater should be encountered at approximately forty-three feet (43') below ground surface (bgs). Based on the NMOCD ranking system, twenty (20) points will be assigned to the site as a result of this criterion.

A search of the NMWRRS database indicated there is one (1) water well approximately seven hundred and seventy-nine feet (779') southeast of the release. Based on the NMOCD ranking system, twenty (20) 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 MF-16" Historical Release Site has an initial ranking score of forty (40) points. The soil remediation levels for a site with a ranking score of greater than nineteen (>19) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- Benzene, toluene, ethylbenzene and xylene (BTEX) – 50 mg/Kg (ppm)
- Total petroleum hydrocarbons (TPH) – 100 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 April 12, 2006, six (6) initial soil samples (MF-16 Surface @ Release Point, MF-16 @ 1'-10ft North of RP, MF-16 @ 30"-10ft North of RP, MF-16 Surface 80' North of RP, MF-16 @ 1'-80' North of RP and MF-16 @ 2'-80' North of RP) were collected from the release site and submitted to the laboratory for analysis of TPH concentrations. Laboratory analytical results indicate TPH concentrations ranged from 820 mg/Kg for soil sample MF-16 @ 30"-10ft North of RP to 79,100 mg/Kg for soil sample MF-16 Surface @ Release Point. 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 C.

Between April 12, 2006, and May 5, 2006, remediation activities were conducted at the MF-16" Bettis Historical Release Site. Environmental records indicate at least five hundred and sixty-four cubic yards (564 yd^3) of impacted material was excavated from the location and transported to Southern Union Gas Services' Landfarm (Discharge Permit # NM-02-0019) for treatment.

On April 21, 2006, one (1) soil sample (P.R. @ 10') was collected and submitted to the laboratory for analysis of BTEX and TPH concentrations. Laboratory analytical results indicated the benzene concentration was less than the laboratory method detection limit (MDL). The total BTEX concentration was 4.44 mg/Kg, and the TPH concentration was less than the laboratory MDL.

On April 26, 2006, eight (8) soil samples (P.R. @ 10', WW-Comp., S-Comp., A-Comp., B-Comp., NW-Comp., SW-Comp. and EW-Comp.) were collected from the excavation floor and sidewalls and submitted to the laboratory for analysis of TPH concentrations. Soil samples WW-Comp., S-Comp., A-Comp., B-Comp., NW-Comp., SW-Comp. and EW-Comp. were composite samples. Analytical results indicated TPH concentrations were less than the laboratory MDL in each of the soil samples submitted, with the exception of soil sample S-Comp., which had a concentration of 85.8 mg/Kg. Soil sample P.R. @ 10' was also analyzed for BTEX constituent concentrations, which were less than the appropriate laboratory MDL. Soil samples were not analyzed for chloride concentrations.

Environmental records indicated the excavation was backfilled with locally purchased material on or around May 3, 2006. Prior to backfilling the final dimensions of the excavation were approximately one hundred and five feet (105') in length, twenty feet (20') to thirty feet (30') in width, and ranged in depth from approximately four feet (4') to ten feet (10').

On December 5, 2012, Basin responded to the MF-16" Bettis Historical Release Site in an effort to determine if soil containing BTEX, TPH and chloride concentrations above NMOCD regulatory standards remained in-situ and to collect confirmation soil samples. A hand auger was utilized to locate native soil representing the former excavation floor and sidewalls. Eight (8) soil samples (North Sidewall, South Sidewall, East Sidewall #1, East Sidewall #2, West Sidewall #1, West Sidewall #2, Floor #1 and Floor #2) were collected from the location and submitted to the

laboratory for analysis of TPH and chloride analysis. Laboratory analytical results indicated TPH concentrations were less than the appropriate laboratory MDL for each of the submitted soil samples. Chloride concentrations ranged from less than the laboratory MDL for soil sample North Sidewall to 6.3 mg/Kg for soil sample Floor #1. Soil samples Floor #1 and Floor #2 were also analyzed for BTEX constituent concentrations. BTEX concentrations were less than the appropriate laboratory MDL for both soil samples.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

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

- BTEX concentrations in accordance with EPA Method SW-846 8021b
- TPH concentrations in accordance with modified EPA Method SW-846 8015M
- Chloride concentrations in accordance with EPA Method 300/300.1

4.2 Decontamination of Equipment

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

4.3 Laboratory Protocol

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

5.0 SITE CLOSURE REQUEST

Confirmation soil samples collected from the MF-16" Bettis Historical Release Site suggested previous remediation activities met the requirements of the NMOCD's "Guidelines for Remediation of Leaks, Spills and Releases". Laboratory analytical results indicated benzene, BTEX, TPH and chloride concentrations were less than NMOCD regulatory standards 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 MF-16" 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.

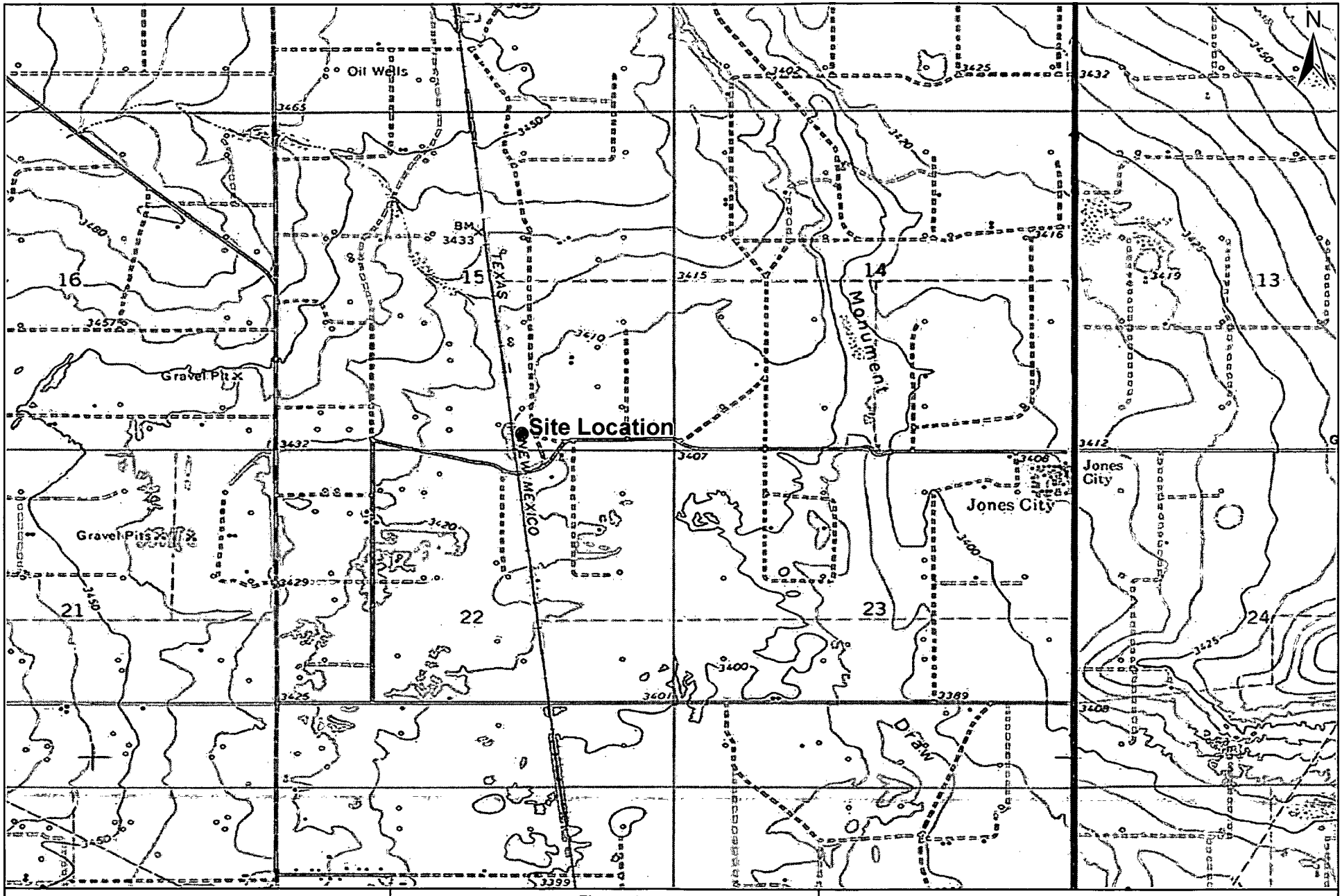
This report has been prepared for the benefit of Southern Union Gas Services. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and/or Southern Union Gas Services.

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



1,000 500 0 1,000 2,000

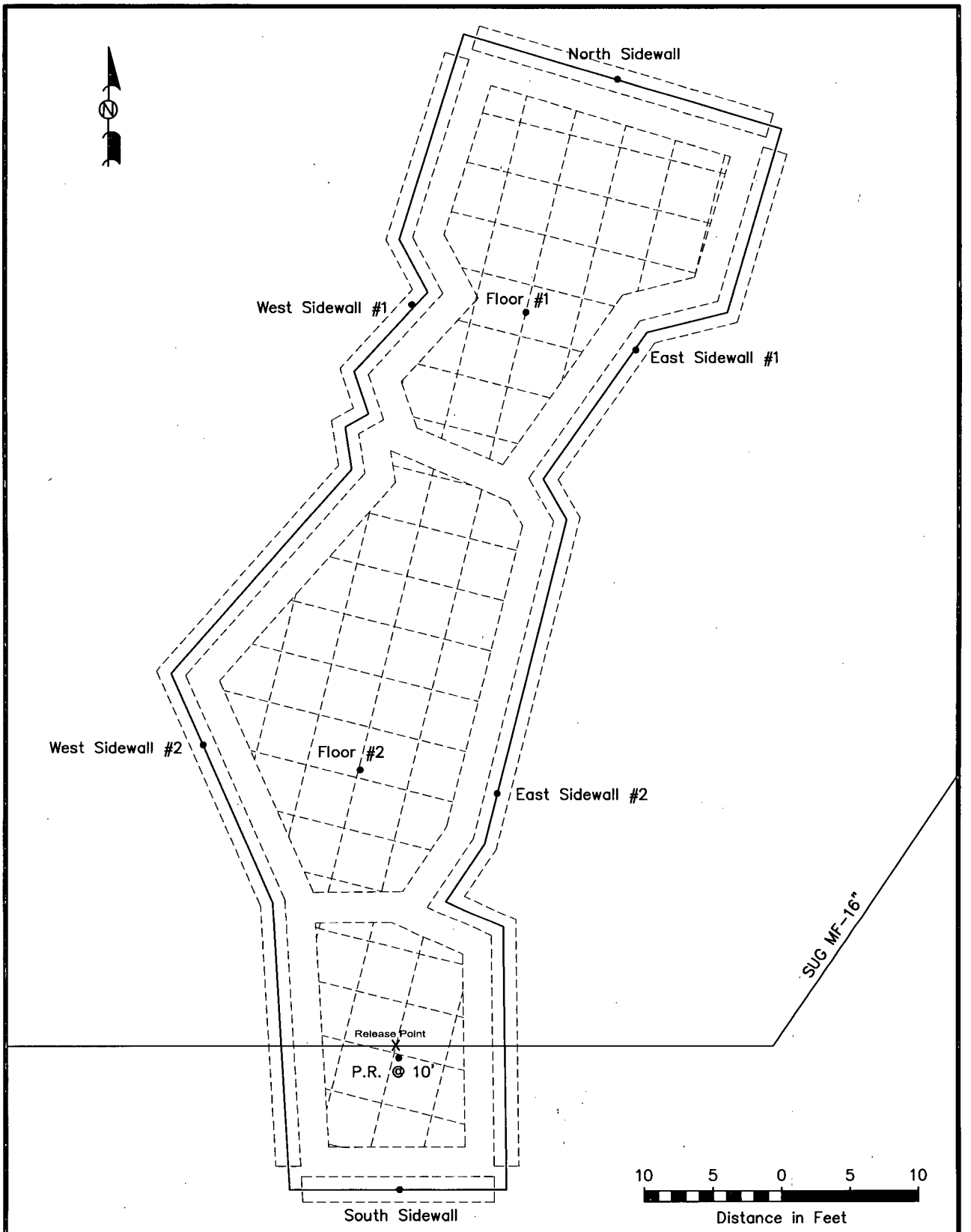
Distance in Feet

Figure 1
Site Location Map
Southern Union Gas Services
MF-16" Bettis
Lea County, New Mexico
NMOCD Reference #: 1RP-837

Basin Environmental Service Technologies
Effective Solutions

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

Drawn By: BJA	Checked By: JWL
November 13, 2012	Scale: 1" = 2000'



LEGEND:

- Sample Location
- Composite Sample
- Pipeline
- Fence

Figure 2

Site & Sample Location Map
Southern Union Gas Services
MF-16" Bettis (RP-837)
Lea County, NM

Basin Environmental Services

Scale: 1" = 30'	Drawn By: JWL	Prepared By: BJA
November 8, 2012		

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

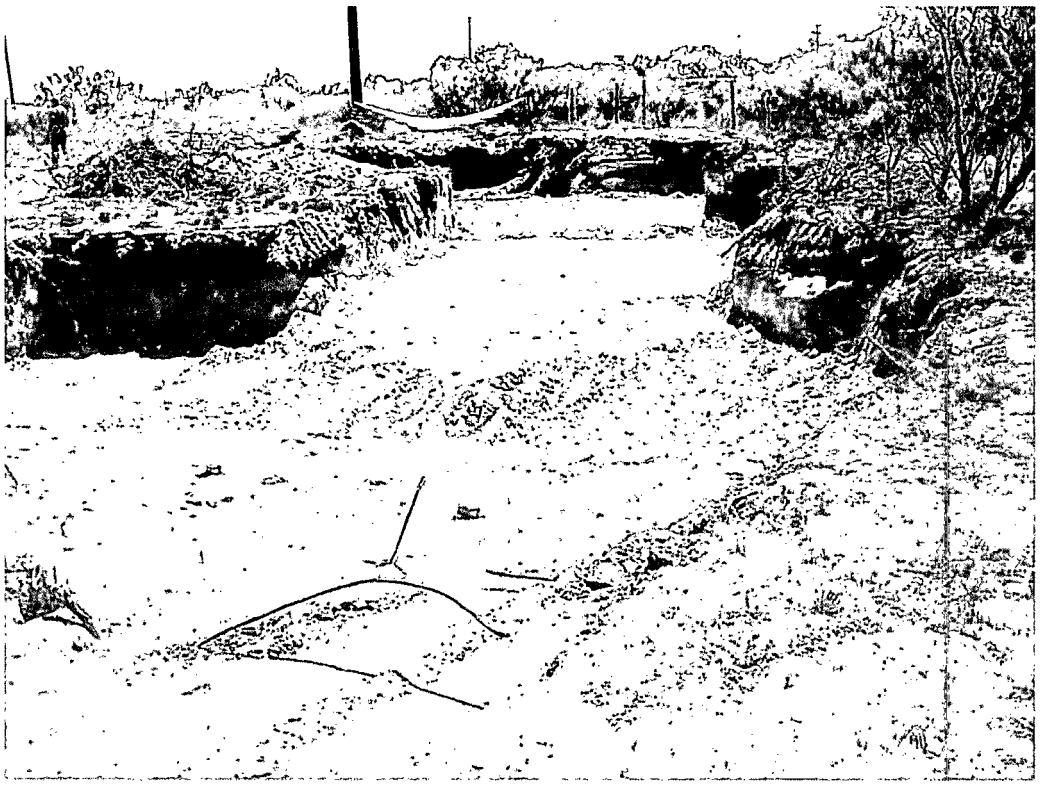
SOUTHERN UNION GAS SERVICES
MF-16" BETTIS
HISTORICAL RELEASE SITE
LEA COUNTY, NEW MEXICO
NMOCD REF# 1RP-837

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)
MF-16 Surface @ Release Point	Surface	4/12/2006	Excavated	-	-	-	-	-	4,320	68,500	6,260	79,100	-
MF-16 @ 1'-10 North of RP	1'	4/12/2006	Excavated	-	-	-	-	-	1,930	4,250	300	6,480	-
MF-16 @ 30"-10ft North of RP	30"	4/12/2006	Excavated	-	-	-	-	-	152	625	43.0	820	-
MF-16 Surface 80' North of RF	Surface	4/12/2006	Excavated	-	-	-	-	-	4,360	49,100	9,640	63,100	-
MF-16 @ 1'-80' North of RF	1'	4/12/2006	Excavated	-	-	-	-	-	1,820	3,460	257	5,540	-
MF-16 @ 2'-80' North of RF	2'	4/12/2006	Excavated	-	-	-	-	-	662	1,650	121	2,430	-
P.R. @ 10'	10'	4/21/2006	In-Situ	<1.00	1.01	1.80	1.63	4.44	<10.0	<10.0	<10.0	<10.0	-
P.R. @ 10'	10'	4/26/2006	In-Situ	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0	<10.0	-
WW-Comp.	N/A	4/26/2006	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	-
S-Comp.	N/A	4/26/2006	In-Situ	-	-	-	-	-	<10.0	85.8	<10.0	85.8	-
A-Comp.	N/A	4/26/2006	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	-
B-Comp.	N/A	4/26/2006	In-Situ						<10.0	<10.0	<10.0	<10.0	-
NW-Comp.	N/A	4/26/2006	In-Situ						<10.0	<10.0	<10.0	<10.0	-
SW-Comp.	N/A	4/26/2006	In-Situ						<10.0	<10.0	<10.0	<10.0	-
EW-Comp.	N/A	4/26/2006	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	-
North Sidewall	2'	12/05/12	In-Situ						<15.9	<15.9	<15.9	<15.9	<1.06
South Sidewall	2'	12/05/12	In-Situ						<15.6	<15.6	<15.6	<15.6	1.94
East Sidewall #1	2'	12/05/12	In-Situ						<15.9	<15.9	<15.9	<15.9	1.11
East Sidewall #2	2'	12/05/12	In-Situ						<16.0	<16.0	<16.0	<16.0	1.82
West Sidewall #1	2'	12/05/12	In-Situ						<16.0	<16.0	<16.0	<16.0	2.18
West Sidewall #2	2'	12/05/12	In-Situ						<15.8	<15.8	<15.8	<15.8	2.33
Floor #1	4'	12/05/12	In-Situ	<0.00105	<0.00210	<0.00105	<0.00210	<0.00210	<15.8	<15.8	<15.8	<15.8	6.3
Floor #2	5'	12/05/12	In-Situ	<0.00105	<0.00209	<0.00105	<0.00209	<0.00209	<15.6	<15.6	<15.6	<15.6	2.03
NMOCD Standard				**10**				**50**				**100**	**250**

- = Not analyzed.

Photograph of the 2006 excavation at the MF-16" Bettis Historical Release Site.

Photograph of the 2006 excavation at the MF-16" Bettis Historical Release Site.



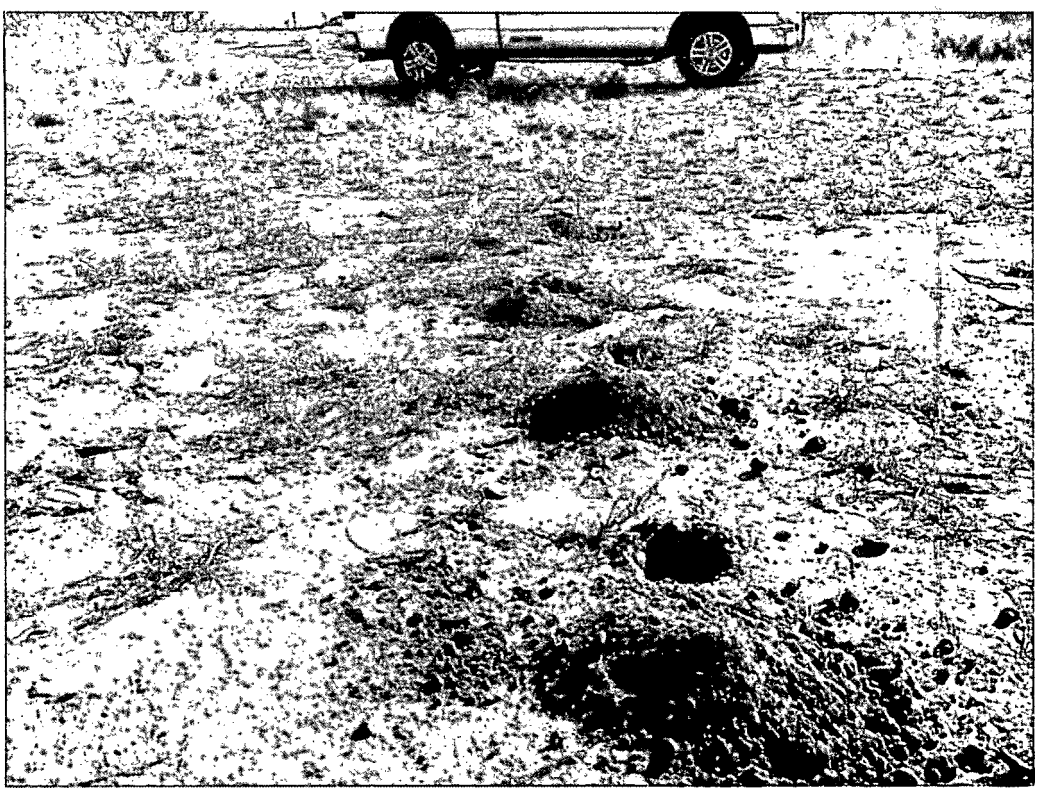
Photograph of the 2006 excavation at the MF-16" Bettis Historical Release Site.

Photograph of the remediated area at the MF-16" Bettis Historical Release Site.

Photograph of the remediated area at the MF-16" Bettis Historical Release Site.

Photograph of the remediated area at the MF-16" Bettis Historical Release Site.

Photograph of collection of confirmation soil samples at the MF-16" Bettis Historical Release Site.



Photograph of collection of confirmation soil samples at the MF-16" Bettis Historical Release Site.

2116-2.
MF-16" BETTIS
2006-014
4-20-06
3-Loads To CELL #13

DCOTILLO ENVIRONMENTAL LLC

HRS WORKED 4 @ $ PER HOUR $

OPERATOR L. Combs TO DUMP TRUCK #1102 DATE 4-20-06

ADDRESS

COMPANY SOUTHERN UNION GAS SERVICES

LAND OWNER To S.U.G.S. Land Farm TOTAL ACRES 36 RATE TOTAL

ADDRESS DATE PAID CK NO

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

S.U.G.S.
MF-16", BETTIS
2006-014
4-21-06
7-Loads To CELL #13

DCOTILLO ENVIRONMENTAL LLC

HRS WORKED 9 @ $ PER HOUR $

OPERATOR L. Combs TO DUMP TRUCK #1102 DATE 4-21-06

ADDRESS

COMPANY SOUTHERN UNION GAS SERVICES

LAND OWNER To S.U.G.S. Land Farm TOTAL ACRES 84 RATE TOTAL

ADDRESS DATE PAID CK NO

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

MF-16", BETTIS
2006-014
4-25-06
8-LOADS TO CELL #13

DCOTILLO ENVIRONMENTAL LLC

PS WORKED 9 @ $ PER HOUR $

EXEF L. Comps TO DUMP TRUCK #1102 DATE 4-25-06

RESS

MPANY SOUTHERN UNION GAS SERVICES

OWNER TESUGS. LAND FARM TOTAL YDS 96 RATE TOTAL

RESS DATE PAID CK NO

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

SUGS.
MF-16", BETTIS
2006-014
4-24-06
8-LOADS TO CELL #13

DCOTILLO ENVIRONMENTAL LLC

PS WORKED 9 @ $ PER HOUR $

EXEF L. Comps TO DUMP TRUCK #1102 DATE 4-24-06

RESS

MPANY SOUTHERN UNION GAS SERVICES

OWNER TESUGS. LAND FARM TOTAL YDS 96 RATE TOTAL

RESS DATE PAID CK NO

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

MF-16", BETTIS
2006-014
4-27-06
7-LOADS TO CELL #13

DCOTILLO ENVIRONMENTAL LLC

HOURS WORKED 9 @ $ PER HOUR $

OPERATOR L. Combs TO DUMP TRUCK #1102 DATE 4-27-06

ADDRESS

COMPANY SOUTHERN UNION GAS SERVICES

SOIL OWNER TOSCO LAND FARM TOTAL YDS 184 RATE TOTAL

ADDRESS DATE PAID CK NO

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

54.65
MF-16", BETTIS
2006-014
4-26-06
5-LOADS TO CELL #13

DCOTILLO ENVIRONMENTAL LLC

HOURS WORKED 9 @ $ PER HOUR $

OPERATOR L. Combs TO DUMP TRUCK #1102 DATE 4-26-06

ADDRESS

COMPANY SOUTHERN UNION GAS SERVICES

SOIL OWNER TOSCO LAND FARM TOTAL YDS 96 RATE TOTAL

ADDRESS DATE PAID CK NO

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

2,400
MF-16", BETTS
2006-014
4-28-06
6 - Loads To CELL #13

OCOTILLO ENVIRONMENTAL LLC

PERSONNEL 9 @ $ PER HOUR $

DRIVER L. Combs TRUCK # 1102 DATE 4-28-06

ADDRESS

COMPANY Southern Union GHS Services

PIT OWNER To SUGS Land Farm TOTAL YDS 72 RATE TOTAL

ADDRESS DATE PAID OM NO

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

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project: MF-16" Betti S
Project Number: 2006-014
Location: North of Eunice

Lab Order Number: 6D13012

Report Date: 04/20/06

Southern Union Gas Services- Jal	Project: MF-16" Betti S	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2006-014	**Reported:**
Jal NM, 88252	Project Manager: Tony Savoie	04/20/06 11:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MF-16 Surface @ Release Point	6D13012-01	Soil	04/12/06 10:30	04/13/06 13:51
MF-16 @ 1'- 10ft North of RP	6D13012-02	Soil	04/12/06 10:30	04/13/06 13:51
MF-16 @ 30"- 10ft North of RP	6D13012-03	Soil	04/12/06 10:30	04/13/06 13:51
MF-16 Surface 80' North of RP	6D13012-04	Soil	04/12/06 10:30	04/13/06 13:51
MF-16 @ 1'- 80' North of RP	6D13012-05	Soil	04/12/06 10:30	04/13/06 13:51
MF-16 @ 2'- 80' North of RP	6D13012-06	Soil	04/12/06 10:30	04/13/06 13:51

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

Southern Union Gas Services- Jal	Project: MF-16" Betti S	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2006-014	**Reported:**
Jal NM, 88252	Project Manager: Tony Savoie	04/20/06 11:20

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MF-16 Surface @ Release Point (6D13012-01) Soil									
Carbon Ranges C6-C12	**4320**	200	mg/kg dry	20	ED61312	04/13/06	04/14/06	EPA 8015M	
Carbon Ranges C12-C28	**68500**	200	"	"	"	"	"	"	
Carbon Ranges C28-C35	**6260**	200	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**79100**	200	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*7.02 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*52.2 %*	*70-130*		"	"	"	"	*S-06*
MF-16 @ 1'- 10ft North of RP (6D13012-02) Soil									
Carbon Ranges C6-C12	**1930**	10.0	mg/kg dry	1	ED61312	04/13/06	04/14/06	EPA 8015M	
Carbon Ranges C12-C28	**4250**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**300**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**6480**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*113 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*128 %*	*70-130*		"	"	"	"	
MF-16 @ 30"- 10ft North of RP (6D13012-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	ED61907	04/19/06	04/19/06	EPA 8021B	
Toluene	**0.0734**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.138**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.330**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.239**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*94.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**152**	10.0	mg/kg dry	1	ED61418	04/14/06	04/14/06	EPA 8015M	
Carbon Ranges C12-C28	**625**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**43.0**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**820**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*98.4 %*	*70-130*		"	"	"	"	

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

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MF-16 Surface 80' North of RP (6D13012-04) Soil									
Carbon Ranges C6-C12	**4360**	100	mg/kg dry	10	ED61418	04/14/06	04/18/06	EPA 8015M	
Carbon Ranges C12-C28	**49100**	100	"	"	"	"	"	"	
Carbon Ranges C28-C35	**9640**	100	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**63100**	100	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*18.0 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*79.0 %*	*70-130*		"	"	"	"	*S-04*
MF-16 @ 1'- 80' North of RP (6D13012-05) Soil									
Carbon Ranges C6-C12	**1820**	10.0	mg/kg dry	1	ED61418	04/14/06	04/14/06	EPA 8015M	
Carbon Ranges C12-C28	**3460**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**257**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**5540**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*83.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*86.6 %*	*70-130*		"	"	"	"	
MF-16 @ 2'- 80' North of RP (6D13012-06) Soil									
Benzene	**0.134**	0.0250	mg/kg dry	25	ED61907	04/19/06	04/19/06	EPA 8021B	
Toluene	**1.99**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**3.09**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**6.33**	0.0250	"	"	"	"	"	"	
Xylene (o)	**3.41**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*135 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*145 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**662**	10.0	mg/kg dry	1	ED61418	04/14/06	04/14/06	EPA 8015M	
Carbon Ranges C12-C28	**1650**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**121**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**2430**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*120 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*115 %*	*70-130*		"	"	"	"	

Southern Union Gas Services- Jal	Project: MF-16" Betti S	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2006-014	**Reported:**
Jal NM, 88252	Project Manager: Tony Savoie	04/20/06 11:20

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MF-16 Surface @ Release Point (6D13012-01) Soil									
% Moisture	**10.1**	0.1	%	1	ED61410	04/13/06	04/14/06	% calculation	
MF-16 @ 1'- 10ft North of RP (6D13012-02) Soil									
% Moisture	**9.1**	0.1	%	1	ED61410	04/13/06	04/14/06	% calculation	
MF-16 @ 30"- 10ft North of RP (6D13012-03) Soil									
% Moisture	**10.5**	0.1	%	1	ED61410	04/13/06	04/14/06	% calculation	
MF-16 Surface 80' North of RP (6D13012-04) Soil									
% Moisture	**5.6**	0.1	%	1	ED61410	04/13/06	04/14/06	% calculation	
MF-16 @ 1'- 80' North of RP (6D13012-05) Soil									
% Moisture	**9.3**	0.1	%	1	ED61410	04/13/06	04/14/06	% calculation	
MF-16 @ 2'- 80' North of RP (6D13012-06) Soil									
% Moisture	**9.0**	0.1	%	1	ED61410	04/13/06	04/14/06	% calculation	

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED61312 - Solvent Extraction (GC)										
Blank (ED61312-BLK1)				Prepared & Analyzed: 04/13/06						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*40.1*		*mg/kg*	*50.0*		*80.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.6*		*"*	*50.0*		*81.2*	*70-130*			
LCS (ED61312-BS1)				Prepared & Analyzed: 04/13/06						
Carbon Ranges C6-C12	464	10.0	mg/kg wet	500		92.8	75-125			
Carbon Ranges C12-C28	465	10.0	"	500		93.0	75-125			
Total Hydrocarbon C6-C35	929	10.0	"	1000		92.9	75-125			
Surrogate: 1-Chlorooctane	*48.8*		*mg/kg*	*50.0*		*97.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*41.9*		*"*	*50.0*		*83.8*	*70-130*			
Calibration Check (ED61312-CCV1)				Prepared: 04/13/06 Analyzed: 04/14/06						
Carbon Ranges C6-C12	286		mg/kg	250		114	80-120			
Carbon Ranges C12-C28	297		"	250		119	80-120			
Total Hydrocarbon C6-C35	583		"	500		117	80-120			
Surrogate: 1-Chlorooctane	*49.2*		*"*	*50.0*		*98.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.2*		*"*	*50.0*		*88.4*	*70-130*			
Matrix Spike (ED61312-MS1)	**Source: 6D13008-11**			Prepared & Analyzed: 04/13/06						
Carbon Ranges C6-C12	523	10.0	mg/kg dry	560	ND	93.4	75-125			
Carbon Ranges C12-C28	529	10.0	"	560	ND	94.5	75-125			
Total Hydrocarbon C6-C35	1050	10.0	"	1120	ND	93.8	75-125			
Surrogate: 1-Chlorooctane	*50.3*		*mg/kg*	*50.0*		*101*	*70-130*			
Surrogate: 1-Chlorooctadecane	*41.5*		*"*	*50.0*		*83.0*	*70-130*			

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED61312 - Solvent Extraction (GC)										
Matrix Spike Dup (ED61312-MSD1)	**Source: 6D13008-11**			Prepared & Analyzed: 04/13/06						
Carbon Ranges C6-C12	528	10.0	mg/kg dry	560	ND	94.3	75-125	0.951	20	
Carbon Ranges C12-C28	521	10.0	"	560	ND	93.0	75-125	1.52	20	
Total Hydrocarbon C6-C35	1050	10.0	"	1120	ND	93.8	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*50.8*		*mg/kg*	*50.0*		*102*	*70-130*			
Surrogate: 1-Chlorooctadecane	*42.4*		"	*50.0*		*84.8*	*70-130*			
Batch ED61418 - Solvent Extraction (GC)										
Blank (ED61418-BLK1)				Prepared & Analyzed: 04/14/06						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*45.7*		*mg/kg*	*50.0*		*91.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.3*		"	*50.0*		*92.6*	*70-130*			
LCS (ED61418-BS1)				Prepared & Analyzed: 04/14/06						
Carbon Ranges C6-C12	477	10.0	mg/kg wet	500		95.4	75-125			
Carbon Ranges C12-C28	491	10.0	"	500		98.2	75-125			
Total Hydrocarbon C6-C35	968	10.0	"	1000		96.8	75-125			
Surrogate: 1-Chlorooctane	*51.8*		*mg/kg*	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.2*		"	*50.0*		*90.4*	*70-130*			
Calibration Check (ED61418-CCV1)				Prepared: 04/14/06 Analyzed: 04/15/06						
Carbon Ranges C6-C12	266		mg/kg	250		106	80-120			
Carbon Ranges C12-C28	294		"	250		118	80-120			
Total Hydrocarbon C6-C35	560		"	500		112	80-120			
Surrogate: 1-Chlorooctane	*45.6*		"	*50.0*		*91.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*38.7*		"	*50.0*		*77.4*	*70-130*			

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED61418 - Solvent Extraction (GC)										
Matrix Spike (ED61418-MS1)	**Source: 6D14012-01**			Prepared & Analyzed: 04/14/06						
Carbon Ranges C6-C12	509	10.0	mg/kg dry	536	ND	95.0	75-125			
Carbon Ranges C12-C28	510	10.0	"	536	ND	95.1	75-125			
Total Hydrocarbon C6-C35	1020	10.0	"	1070	ND	95.3	75-125			
Surrogate: 1-Chlorooctane	*56.1*		*mg/kg*	*50.0*		*112*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.4*		*"*	*50.0*		*94.8*	*70-130*			
Matrix Spike Dup (ED61418-MSD1)	**Source: 6D14012-01**			Prepared & Analyzed: 04/14/06						
Carbon Ranges C6-C12	518	10.0	mg/kg dry	536	ND	96.6	75-125	1.75	20	
Carbon Ranges C12-C28	531	10.0	"	536	ND	99.1	75-125	4.03	20	
Total Hydrocarbon C6-C35	1050	10.0	"	1070	ND	98.1	75-125	2.90	20	
Surrogate: 1-Chlorooctane	*57.0*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.9*		*"*	*50.0*		*95.8*	*70-130*			
Batch ED61907 - EPA 5030C (GC)										
Blank (ED61907-BLK1)				Prepared & Analyzed: 04/19/06						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*39.2*		*ug/kg*	*40.0*		*98.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.3*		*"*	*40.0*		*98.2*	*80-120*			
LCS (ED61907-BS1)				Prepared & Analyzed: 04/19/06						
Benzene	1.31	0.0250	mg/kg wet	1.25		105	80-120			
Toluene	1.39	0.0250	"	1.25		111	80-120			
Ethylbenzene	1.44	0.0250	"	1.25		115	80-120			
Xylene (p/m)	3.00	0.0250	"	2.50		120	80-120			
Xylene (o)	1.50	0.0250	"	1.25		120	80-120			
Surrogate: a,a,a-Trifluorotoluene	*40.6*		*ug/kg*	*40.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*37.8*		*"*	*40.0*		*94.5*	*80-120*			

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED61907 - EPA 5030C (GC)										
Calibration Check (ED61907-CCV1)				Prepared: 04/19/06 Analyzed: 04/20/06						
Benzene	58.6		ug/kg	50.0		117	80-120			
Toluene	56.6		"	50.0		113	80-120			
Ethylbenzene	59.7		"	50.0		119	80-120			
Xylene (p/m)	119		"	100		119	80-120			
Xylene (o)	59.1		"	50.0		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	*39.1*		"	*40.0*		*97.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*37.2*		"	*40.0*		*93.0*	*80-120*			
Matrix Spike (ED61907-MS1)		**Source: 6D13013-01**		Prepared & Analyzed: 04/19/06						
Benzene	1.25	0.0250	mg/kg dry	1.43	ND	87.4	80-120			
Toluene	1.24	0.0250	"	1.43	ND	86.7	80-120			
Ethylbenzene	1.33	0.0250	"	1.43	ND	93.0	80-120			
Xylene (p/m)	2.88	0.0250	"	2.86	ND	101	80-120			
Xylene (o)	1.41	0.0250	"	1.43	ND	98.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*32.3*		*ug/kg*	*40.0*		*80.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.6*		"	*40.0*		*91.5*	*80-120*			
Matrix Spike Dup (ED61907-MSD1)		**Source: 6D13013-01**		Prepared: 04/19/06 Analyzed: 04/20/06						
Benzene	1.45	0.0250	mg/kg dry	1.43	ND	101	80-120	14.4	20	
Toluene	1.52	0.0250	"	1.43	ND	106	80-120	20.0	20	
Ethylbenzene	1.53	0.0250	"	1.43	ND	107	80-120	14.0	20	
Xylene (p/m)	3.37	0.0250	"	2.86	ND	118	80-120	15.5	20	
Xylene (o)	1.57	0.0250	"	1.43	ND	110	80-120	10.9	20	
Surrogate: a,a,a-Trifluorotoluene	*38.6*		*ug/kg*	*40.0*		*96.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*35.1*		"	*40.0*		*87.8*	*80-120*			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED61410 - General Preparation (Prep)										
Blank (ED61410-BLK1)				Prepared: 04/13/06 Analyzed: 04/14/06						
% Solids	100		%							
Duplicate (ED61410-DUP1)		**Source: 6D13001-01**		Prepared: 04/13/06 Analyzed: 04/14/06						
% Solids	98.2		%		98.1			0.102	20	
Duplicate (ED61410-DUP2)		**Source: 6D13008-10**		Prepared: 04/13/06 Analyzed: 04/14/06						
% Solids	88.0		%		88.3			0.340	20	
Duplicate (ED61410-DUP3)		**Source: 6D13012-04**		Prepared: 04/13/06 Analyzed: 04/14/06						
% Solids	92.1		%		94.4			2.47	20	

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K. Tuttle Date: 4-20-06

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Tony Savoie
Company Name: Southern Union GAS Serv. Ltd.
Company Address: 610 Commerce
City/State/Zip: JAL, N.M. 88252
Telephone No: 505-631-6747
Fax No:
Sampler Signature: Tony Savoie

Project Name: MF-16" Bettis
Project #: 2006-014
Project Loc: North of Eunice
PO #:

120130

Analyze For: TCLP: / TOTAL: ✓ (BTEX)

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO₃	HCl	NaOH	H₂SO₄	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	TPH: 418.1 (8015M) 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX (8021B)/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule)	Standard TAT
01	MF-16 Surface @ Release Point	4/12/06	10:30	1	✓									✓		✓											✓
02	" @1' - 10ft North of RP	✓	"	1	✓									✓		✓							✓				✓
03	" @30" " " "	✓	"	1	✓									✓		✓											✓
04	" Surface 30' North of RP	✓	"	1	✓									✓		✓											✓
05	" @1' " " "	✓	"	1	✓									✓		✓											✓
06	" @2' " " "	✓	"	1	✓									✓		✓							✓				✓

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Tony Savoie	4/13/06	0705	Don Green	4-13-06	0705
Relinquished by: Don Green	4-13-06	13:51	Received by ELOT: Carrie Kelly	4/13/06	13:51

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 4.5
Laboratory Comments: w/ label ~~w/ sent~~ ck
4oz glass

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

Client: SUGS

Date/Time: 4/3/08 13:51

Order #: 680312

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	4.5 C
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	~~Not present~~
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	ID on cap
Container labels legible and intact?	Yes	No	n/a
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: _____ Date/Time: _____ Contacted by: _____

Regarding:

Corrective Action Taken:

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project: MF-16"
Project Number: 2006-014
Location: Bettis Ranch

Lab Order Number: 6D21012

Report Date: 04/26/06

Southern Union Gas Services- Jal	Project: MF-16"	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2006-014	**Reported:**
Jal NM, 88252	Project Manager: Tony Savoie	05/01/06 08:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P.R.@ 10'	6D21012-01	Soil	04/21/06 13:10	04/21/06 16:50

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P.R.@ 10' (6D21012-01) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED62407	04/24/06	04/25/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*88.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*93.6 %*	*70-130*		"	"	"	"	

Southern Union Gas Services- Jal	Project: MF-16"	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2006-014	**Reported:**
Jal NM, 88252	Project Manager: Tony Savoie	05/01/06 08:09

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P.R.@ 10' (6D21012-01) Soil									
% Moisture	**6.5**	0.1	%	1	ED62502	04/24/06	04/25/06	% calculation	

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Southern Union Gas Services- Jal	Project: MF-16"	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2006-014	**Reported:**
Jal NM, 88252	Project Manager: Tony Savoie	05/01/06 08:09

TCLP Volatile Organic Compounds by EPA Method 1311/8260B

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Extracted	Prepared	Analyzed	Method	Notes
P.R.@ 10' (6D21012-01) Soil										
Benzene	ND	1.00	ug/l	1	ED62605	04/24/06 TCLP	04/25/06	04/25/06	EPA 8260B	
Toluene	**1.01**	1.00	"	"	"	"	"	"	"	
Ethylbenzene	**1.80**	1.00	"	"	"	"	"	"	"	
Xylene (p/m)	**1.63**	1.00	"	"	"	"	"	"	"	
Xylene (o)	**J [0.910]**	1.00	"	"	"	"	"	"	"	J
Surrogate: Dibromofluoromethane		*83.6 %*	*70-139*		"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*86.8 %*	*52-149*		"	"	"	"	"	
Surrogate: Toluene-d8		*94.4 %*	*76-125*		"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*66-145*		"	"	"	"	"	

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED62407 - Solvent Extraction (GC)										
Blank (ED62407-BLK1)				Prepared: 04/24/06 Analyzed: 04/25/06						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*41.0*		*mg/kg*	*50.0*		*82.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.5*		*"*	*50.0*		*87.0*	*70-130*			
LCS (ED62407-BS1)				Prepared & Analyzed: 04/24/06						
Carbon Ranges C6-C12	464	10.0	mg/kg wet	500		92.8	75-125			
Carbon Ranges C12-C28	479	10.0	"	500		95.8	75-125			
Total Hydrocarbon C6-C35	943	10.0	"	1000		94.3	75-125			
Surrogate: 1-Chlorooctane	*48.0*		*mg/kg*	*50.0*		*96.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.2*		*"*	*50.0*		*86.4*	*70-130*			
Calibration Check (ED62407-CCV1)				Prepared: 04/24/06 Analyzed: 04/25/06						
Carbon Ranges C6-C12	220		mg/kg	250		88.0	80-120			
Carbon Ranges C12-C28	288		"	250		115	80-120			
Total Hydrocarbon C6-C35	508		"	500		102	80-120			
Surrogate: 1-Chlorooctane	*45.4*		*"*	*50.0*		*90.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.7*		*"*	*50.0*		*89.4*	*70-130*			
Matrix Spike (ED62407-MS1)	**Source: 6D21011-01**			Prepared: 04/24/06 Analyzed: 04/25/06						
Carbon Ranges C6-C12	515	10.0	mg/kg dry	541	5.00	94.3	75-125			
Carbon Ranges C12-C28	535	10.0	"	541	18.3	95.5	75-125			
Total Hydrocarbon C6-C35	1050	10.0	"	1080	18.3	95.5	75-125			
Surrogate: 1-Chlorooctane	*52.2*		*mg/kg*	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.1*		*"*	*50.0*		*94.2*	*70-130*			

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED62407 - Solvent Extraction (GC)										
Matrix Spike Dup (ED62407-MSD1)	**Source: 6D21011-01**			Prepared: 04/24/06		Analyzed: 04/25/06				
Carbon Ranges C6-C12	521	10.0	mg/kg dry	541	5.00	95.4	75-125	1.16	20	
Carbon Ranges C12-C28	535	10.0	"	541	18.3	95.5	75-125	0.00	20	
Total Hydrocarbon C6-C35	1060	10.0	"	1080	18.3	96.5	75-125	0.948	20	
Surrogate: 1-Chlorooctane	*52.1*		*mg/kg*	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.6*		"	*50.0*		*93.2*	*70-130*			

Southern Union Gas Services- Jal	Project: MF-16"	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2006-014	**Reported:**
Jal NM, 88252	Project Manager: Tony Savoie	04/26/06 16:34

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED62502 - General Preparation (Prep)										
Blank (ED62502-BLK1)				Prepared: 04/24/06 Analyzed: 04/25/06						
% Moisture	ND	0.1	%							
Duplicate (ED62502-DUP1)		**Source: 6D21010-01**		Prepared: 04/24/06 Analyzed: 04/25/06						
% Solids	94.3		%		94.3			0.00	20	

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TCLP Volatile Organic Compounds by EPA Method 1311/8260B - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED62605 - EPA 1311/ZHE										
Blank (ED62605-BLK1)				Prepared & Analyzed: 04/25/06						
Benzene	ND	1.00	ug/l							
Toluene	ND	1.00	"							
Ethylbenzene	ND	1.00	"							
Xylene (p/m)	ND	1.00	"							
Xylene (o)	ND	1.00	"							
Surrogate: Dibromofluoromethane	*39.2*		*ug/kg*	*50.0*		*78.4*	*70-139*			
Surrogate: 1,2-Dichloroethane-d4	*37.8*		"	*50.0*		*75.6*	*52-149*			
Surrogate: Toluene-d8	*44.7*		"	*50.0*		*89.4*	*76-125*			
Surrogate: 4-Bromofluorobenzene	*46.9*		"	*50.0*		*93.8*	*66-145*			
LCS (ED62605-BS1)				Prepared & Analyzed: 04/25/06						
Benzene	47.5		ug/kg	50.0		95.0	70-130			
Surrogate: Dibromofluoromethane	*37.8*		"	*50.0*		*75.6*	*70-139*			
Surrogate: 1,2-Dichloroethane-d4	*42.2*		"	*50.0*		*84.4*	*52-149*			
Surrogate: Toluene-d8	*47.4*		"	*50.0*		*94.8*	*76-125*			
Surrogate: 4-Bromofluorobenzene	*48.0*		"	*50.0*		*96.0*	*66-145*			
Calibration Check (ED62605-CCV1)				Prepared & Analyzed: 04/25/06						
Toluene	38.4		ug/kg	50.0		76.8	70-130			
Ethylbenzene	36.5		"	50.0		73.0	70-130			
Surrogate: Dibromofluoromethane	*37.1*		"	*50.0*		*74.2*	*70-139*			
Surrogate: 1,2-Dichloroethane-d4	*38.9*		"	*50.0*		*77.8*	*52-149*			
Surrogate: Toluene-d8	*46.1*		"	*50.0*		*92.2*	*76-125*			
Surrogate: 4-Bromofluorobenzene	*47.1*		"	*50.0*		*94.2*	*66-145*			
Matrix Spike (ED62605-MS1)	**Source: 6D21012-01**			Prepared & Analyzed: 04/25/06						
Benzene	45.6		ug/kg	50.0	ND	91.2	70-130			
Toluene	0.860	1.00	ug/l		1.01		70-130			J
Ethylbenzene	1.47	1.00	"		1.80		70-130			
Xylene (p/m)	1.68	1.00	"		1.63		70-130			
Xylene (o)	0.980	1.00	"		0.910		70-130			J
Surrogate: Dibromofluoromethane	*37.8*		*ug/kg*	*50.0*		*75.6*	*70-139*			
Surrogate: 1,2-Dichloroethane-d4	*43.1*		"	*50.0*		*86.2*	*52-149*			
Surrogate: Toluene-d8	*47.6*		"	*50.0*		*95.2*	*76-125*			
Surrogate: 4-Bromofluorobenzene	*47.5*		"	*50.0*		*95.0*	*66-145*			

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TCLP Volatile Organic Compounds by EPA Method 1311/8260B - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED62605 - EPA 1311/ZHE										
Matrix Spike Dup (ED62605-MSD1)	**Source: 6D21012-01**			Prepared & Analyzed: 04/25/06						
Benzene	48.4		ug/kg	50.0	ND	96.8	70-130	5.96	20	
Surrogate: Dibromofluoromethane	*40.8*		"	*50.0*		*81.6*	*70-139*			
Surrogate: 1,2-Dichloroethane-d4	*48.2*		"	*50.0*		*96.4*	*52-149*			
Surrogate: Toluene-d8	*48.2*		"	*50.0*		*96.4*	*76-125*			
Surrogate: 4-Bromofluorobenzene	*48.8*		"	*50.0*		*97.6*	*66-145*			

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 4-28-06

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: TONY SAVOIE
Company Name: SOUTHERN UNION GAS SERVICES
Company Address: P.O. BOX 1226
City/State/Zip: JAL, N.M. 88252
Telephone No: 505-395-2116
Fax No:
Sampler Signature: Don Green
Email:

Project Name: MF-16"
Project #: 2006-014
Project Loc: BETTIS RANCH
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: TCLP: TPH: 418.1 / 8015M / 1005 / 1006	Analyze For: TCLP: Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	Analyze For: TOTAL: BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule)	Standard TAT
6D21012 -01	P.R. @ 10'	4-21-06	1:10	1	✓									✓		✓							✓				✓

Special Instructions:

Sample Containers Intact? (Y) N
Labels on container? (Y) N
Custody Seals: (Containers) / Cooler
Temperature Upon Receipt: 1.5 C

Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Don Green	4-21-06	16:50			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Jana McMurry	04-21-06	1650

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

lient: SUGS

ate/Time: 04-21-06 @ 1650

rder #: 6D21012

nitials: JMM

Sample Receipt Checklist

emperature of container/cooler?	(Yes)	No	1.5 C
hipping container/cooler in good condition?	(Yes)	No	
ustody Seals intact on shipping container/cooler?	(Yes)	No	Not present
ustody Seals intact on sample bottles?	(Yes)	No	Not present
hain of custody present?	(Yes)	No	
ample Instructions complete on Chain of Custody?	(Yes)	No	
hain of Custody signed when relinquished and received?	(Yes)	No	
hain of custody agrees with sample label(s)	(Yes)	No	
ontainer labels legible and intact?	(Yes)	No	
ample Matrix and properties same as on chain of custody?	(Yes)	No	
amples in proper container/bottle?	(Yes)	No	
amples properly preserved?	(Yes)	No	
ample bottles intact?	(Yes)	No	
reservations documented on Chain of Custody?	(Yes)	No	
ontainers documented on Chain of Custody?	(Yes)	No	
ufficient sample amount for indicated test?	(Yes)	No	
ll samples received within sufficient hold time?	(Yes)	No	
/OC samples have zero headspace?	(Yes)	No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: - Date/Time: Contacted by:

Regarding:

Corrective Action Taken:

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Tony Savoie

Southern Union Gas Services- Jal

P.O. Box 1226

Jal, NM 88252

Project: MF- 16" Bettis

Project Number: 2006-014

Location: C.Bettis Ranch- N

Lab Order Number: 6D27007

Report Date: 05/01/06

Southern Union Gas Services- Jal	Project: MF- 16" Bettis	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2006-014	**Reported:**
Jal NM, 88252	Project Manager: Tony Savoie	05/01/06 12:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P.R.@ 10'	6D27007-01	Soil	04/26/06 15:45	04/27/06 09:54
WW- Comp.	6D27007-02	Soil	04/26/06 15:45	04/27/06 09:54
S- Comp.	6D27007-03	Soil	04/26/06 15:45	04/27/06 09:54
A- Comp.	6D27007-04	Soil	04/26/06 15:45	04/27/06 09:54
B- Comp.	6D27007-05	Soil	04/26/06 15:45	04/27/06 09:54
NW- Comp.	6D27007-06	Soil	04/26/06 15:45	04/27/06 09:54
SW- Comp.	6D27007-07	Soil	04/26/06 15:45	04/27/06 09:54
EW- Comp.	6D27007-08	Soil	04/26/06 15:45	04/27/06 09:54

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Southern Union Gas Services- Jal	Project: MF- 16" Bettis	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2006-014	**Reported:**
Jal NM, 88252	Project Manager: Tony Savoie	05/01/06 12:07

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P.R.@ 10' (6D27007-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	ED62806	04/28/06	04/28/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED62802	04/28/06	05/01/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*117 %*	*70-130*		"	"	"	"	
WW- Comp. (6D27007-02) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED62802	04/28/06	05/01/06	EPA 8015M	
Carbon Ranges C12-C28	**J [8.34]**	10.0	"	"	"	"	"	"	J
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*99.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*109 %*	*70-130*		"	"	"	"	
S- Comp. (6D27007-03) Soil									
Carbon Ranges C6-C12	**J [6.74]**	10.0	mg/kg dry	1	ED62802	04/28/06	05/01/06	EPA 8015M	J
Carbon Ranges C12-C28	**85.8**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**85.8**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*96.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*108 %*	*70-130*		"	"	"	"	

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Southern Union Gas Services- Jal	Project: MF- 16" Bettis	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2006-014	**Reported:**
Jal NM, 88252	Project Manager: Tony Savoie	05/01/06 12:07

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A- Comp. (6D27007-04) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED62802	04/28/06	05/01/06	EPA 8015M	
Carbon Ranges C12-C28	**J [6.05]**	10.0	"	"	"	"	"	"	J
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*109 %*	*70-130*		"	"	"	"	
B- Comp. (6D27007-05) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED62802	04/28/06	05/01/06	EPA 8015M	
Carbon Ranges C12-C28	**J [8.47]**	10.0	"	"	"	"	"	"	J
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*96.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*106 %*	*70-130*		"	"	"	"	
NW- Comp. (6D27007-06) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED62802	04/28/06	05/01/06	EPA 8015M	
Carbon Ranges C12-C28	**ND**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*98.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*107 %*	*70-130*		"	"	"	"	
SW- Comp. (6D27007-07) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED62802	04/28/06	05/01/06	EPA 8015M	
Carbon Ranges C12-C28	**J [8.18]**	10.0	"	"	"	"	"	"	J
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*113 %*	*70-130*		"	"	"	"	

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Southern Union Gas Services- Jal	Project: MF- 16" Bettis	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2006-014	**Reported:**
Jal NM, 88252	Project Manager: Tony Savoie	05/01/06 12:07

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EW- Comp. (6D27007-08) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED62802	04/28/06	05/01/06	EPA 8015M	
Carbon Ranges C12-C28	**ND**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*110 %*	*70-130*		"	"	"	"	

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Southern Union Gas Services- Jal	Project: MF- 16" Bettis	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2006-014	**Reported:**
Jal NM, 88252	Project Manager: Tony Savoie	05/01/06 12:07

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P.R.@ 10' (6D27007-01) Soil									
% Moisture	12.3	0.1	%	1	ED62801	04/27/06	04/28/06	% calculation	
WW- Comp. (6D27007-02) Soil									
% Moisture	1.7	0.1	%	1	ED62801	04/27/06	04/28/06	% calculation	
S- Comp. (6D27007-03) Soil									
% Moisture	3.4	0.1	%	1	ED62801	04/27/06	04/28/06	% calculation	
A- Comp. (6D27007-04) Soil									
% Moisture	3.4	0.1	%	1	ED62801	04/27/06	04/28/06	% calculation	
B- Comp. (6D27007-05) Soil									
% Moisture	3.7	0.1	%	1	ED62801	04/27/06	04/28/06	% calculation	
NW- Comp. (6D27007-06) Soil									
% Moisture	2.5	0.1	%	1	ED62801	04/27/06	04/28/06	% calculation	
SW- Comp. (6D27007-07) Soil									
% Moisture	1.6	0.1	%	1	ED62801	04/27/06	04/28/06	% calculation	
EW- Comp. (6D27007-08) Soil									
% Moisture	3.2	0.1	%	1	ED62801	04/27/06	04/28/06	% calculation	

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED62802 - Solvent Extraction (GC)										
Blank (ED62802-BLK1)				Prepared: 04/28/06 Analyzed: 05/01/06						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*57.6*		*mg/kg*	*50.0*		*115*	*70-130*			
Surrogate: 1-Chlorooctadecane	*64.4*		"	*50.0*		*129*	*70-130*			
LCS (ED62802-BS1)				Prepared: 04/28/06 Analyzed: 05/01/06						
Carbon Ranges C6-C12	449	10.0	mg/kg wet	500		89.8	75-125			
Carbon Ranges C12-C28	493	10.0	"	500		98.6	75-125			
Total Hydrocarbon C6-C35	942	10.0	"	1000		94.2	75-125			
Surrogate: 1-Chlorooctane	*50.0*		*mg/kg*	*50.0*		*100*	*70-130*			
Surrogate: 1-Chlorooctadecane	*50.2*		"	*50.0*		*100*	*70-130*			
Calibration Check (ED62802-CCV1)				Prepared: 04/28/06 Analyzed: 05/01/06						
Carbon Ranges C6-C12	241		mg/kg	250		96.4	80-120			
Carbon Ranges C12-C28	258		"	250		103	80-120			
Total Hydrocarbon C6-C35	499		"	500		99.8	80-120			
Surrogate: 1-Chlorooctane	*47.2*		"	*50.0*		*94.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.3*		"	*50.0*		*92.6*	*70-130*			
Matrix Spike (ED62802-MS1)	**Source: 6D27002-09**			Prepared: 04/28/06 Analyzed: 05/01/06						
Carbon Ranges C6-C12	466	10.0	mg/kg dry	518	ND	90.0	75-125			
Carbon Ranges C12-C28	500	10.0	"	518	ND	96.5	75-125			
Total Hydrocarbon C6-C35	966	10.0	"	1040	ND	92.9	75-125			
Surrogate: 1-Chlorooctane	*49.8*		*mg/kg*	*50.0*		*99.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*50.1*		"	*50.0*		*100*	*70-130*			

Southern Union Gas Services- Jal	Project: MF- 16" Bettis	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2006-014	**Reported:**
Jal NM, 88252	Project Manager: Tony Savoie	05/01/06 12:07

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED62802 - Solvent Extraction (GC)										
Matrix Spike Dup (ED62802-MSD1)	**Source: 6D27002-09**			Prepared: 04/28/06 Analyzed: 05/01/06						
Carbon Ranges C6-C12	477	10.0	mg/kg dry	518	ND	92.1	75-125	2.33	20	
Carbon Ranges C12-C28	522	10.0	"	518	ND	101	75-125	4.31	20	
Total Hydrocarbon C6-C35	999	10.0	"	1040	ND	96.1	75-125	3.36	20	
Surrogate: 1-Chlorooctane	*51.2*		*mg/kg*	*50.0*		*102*	*70-130*			
Surrogate: 1-Chlorooctadecane	*49.4*		"	*50.0*		*98.8*	*70-130*			
Batch ED62806 - EPA 5030C (GC)										
Blank (ED62806-BLK1)				Prepared & Analyzed: 04/28/06						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*34.8*		*ug/kg*	*40.0*		*87.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*32.4*		"	*40.0*		*81.0*	*80-120*			
LCS (ED62806-BS1)				Prepared & Analyzed: 04/28/06						
Benzene	1.14	0.0250	mg/kg wet	1.25		91.2	80-120			
Toluene	1.23	0.0250	"	1.25		98.4	80-120			
Ethylbenzene	1.14	0.0250	"	1.25		91.2	80-120			
Xylene (p/m)	2.83	0.0250	"	2.50		113	80-120			
Xylene (o)	1.39	0.0250	"	1.25		111	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.2*		*ug/kg*	*40.0*		*95.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.0*		"	*40.0*		*97.5*	*80-120*			
Calibration Check (ED62806-CCV1)				Prepared: 04/28/06 Analyzed: 04/30/06						
Benzene	59.9		ug/kg	50.0		120	80-120			
Toluene	56.1		"	50.0		112	80-120			
Ethylbenzene	58.1		"	50.0		116	80-120			
Xylene (p/m)	115		"	100		115	80-120			
Xylene (o)	58.1		"	50.0		116	80-120			
Surrogate: a,a,a-Trifluorotoluene	*40.7*		"	*40.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*41.7*		"	*40.0*		*104*	*80-120*			

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Southern Union Gas Services- Jal	Project: MF- 16" Bettis	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2006-014	**Reported:**
Jal NM, 88252	Project Manager: Tony Savoie	05/01/06 12:07

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED62806 - EPA 5030C (GC)										
Matrix Spike (ED62806-MS1)	**Source: 6D25002-17**			Prepared & Analyzed: 04/28/06						
Benzene	1.36	0.0250	mg/kg dry	1.33	ND	102	80-120			
Toluene	1.33	0.0250	"	1.33	ND	100	80-120			
Ethylbenzene	1.30	0.0250	"	1.33	ND	97.7	80-120			
Xylene (p/m)	2.88	0.0250	"	2.66	ND	108	80-120			
Xylene (o)	1.41	0.0250	"	1.33	ND	106	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.9*		*ug/kg*	*40.0*		*97.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.6*		*"*	*40.0*		*99.0*	*80-120*			
Matrix Spike Dup (ED62806-MSD1)	**Source: 6D25002-17**			Prepared & Analyzed: 04/28/06						
Benzene	1.45	0.0250	mg/kg dry	1.33	ND	109	80-120	6.64	20	
Toluene	1.43	0.0250	"	1.33	ND	108	80-120	7.69	20	
Ethylbenzene	1.47	0.0250	"	1.33	ND	111	80-120	12.7	20	
Xylene (p/m)	3.12	0.0250	"	2.66	ND	117	80-120	8.00	20	
Xylene (o)	1.54	0.0250	"	1.33	ND	116	80-120	9.01	20	
Surrogate: a,a,a-Trifluorotoluene	*41.4*		*ug/kg*	*40.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.8*		*"*	*40.0*		*102*	*80-120*			

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Southern Union Gas Services- Jal	Project: MF- 16" Bettis	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2006-014	**Reported:**
Jal NM, 88252	Project Manager: Tony Savoie	05/01/06 12:07

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED62801 - General Preparation (Prep)										
Blank (ED62801-BLK1)				Prepared: 04/27/06 Analyzed: 04/28/06						
% Solids	100		%							
Duplicate (ED62801-DUP1)		**Source: 6D27002-01**		Prepared: 04/27/06 Analyzed: 04/28/06						
% Solids	86.3		%		88.0			1.95	20	
Duplicate (ED62801-DUP2)		**Source: 6D27016-01**		Prepared: 04/27/06 Analyzed: 04/28/06						
% Solids	87.9		%		88.2			0.341	20	

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Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 5-01-06

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: TONY SAVOIE

Company Name: SOUTHERN UNION GAS SERVICES

Company Address: P.O. Box 1226

City/State/Zip: JAL, N.M. 88252

Telephone No: 505-395-2116

Fax No:

Sampler Signature: Don Green

Email:

Project Name: MF-16", BETTIS

Project #: 2006-014

Project Loc: C. BETTIS RANCH - "N"

PO #:

LAB # (lab use only): 6D27007

Analyze For: TCLP: / TOTAL: NO

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	TPH: 418.1 8015M 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule)	Standard TAT
-01	P.R. @ 10'	4-26-06	15:45	1	✓									✓		✓							✓				✓
-02	WW-COMP.	"	"	1	✓									✓		✓											✓
-03	S - Comp.	"	"	1	✓									✓		✓											✓
-04	A - Comp.	"	"	1	✓									✓		✓											✓
-05	B - Comp.	"	"	1	✓									✓		✓											✓
-06	NW - Comp.	"	"	1	✓									✓		✓											✓
-07	SW - Comp.	"	"	1	✓									✓		✓											✓
-08	EW - Comp.	"	"	1	✓									✓		✓											✓

Special Instructions:

Sample Containers Intact? Y N (Y circled)
Labels on container? Y N (Y circled)
Custody Seals: Containers / Cooler (Containers circled)
Temperature Upon Receipt: 1.0

Relinquished by:	Date	Time	Received by:	Date	Time
Don Green	4-27-06	9:54			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Carrie Kelly	4/27/06	9:54

Laboratory Comments:

4oz glass

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

Client: SUGS

Date/Time: 4/27/06 9:54

Order #: 604027007

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	1.0 C
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: - Date/Time: Contacted by:

Regarding:

Corrective Action Taken:

Analytical Report 453592

for

Southern Union Gas Services- Monahans

Project Manager: Ben Arguijo

(RP-837)

MF-16' Bettis

11-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)

11-DEC-12

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

Reference: XENCO Report No(s): **453592**
(RP-837)
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) 453592. 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. 453592 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Nicholas Straccione
Project Manager

Sample Cross Reference 453592

Southern Union Gas Services- Monahans, Monahans, TX

(RP-837)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
North SideWall	S	12-05-12 08:00		453592-001
South SideWall	S	12-05-12 08:30		453592-002
East SideWall #1	S	12-05-12 09:00		453592-003
East SideWall #2	S	12-05-12 09:30		453592-004
West SideWall #1	S	12-05-12 10:00		453592-005
West SideWall #2	S	12-05-12 10:30		453592-006
Floor #1	S	12-05-12 11:00		453592-007
Floor #2	S	12-05-12 11:30		453592-008

CASE NARRATIVE

Client Name: Southern Union Gas Services- Monahans
Project Name: (RP-837)

Project ID:	*MF-16' Bettis*	*Report Date:*	*11-DEC-12*
Work Order Number(s):	*453592*	*Date Received:*	*12/06/2012*

Sample receipt non conformances and comments:
None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:
Batch: LBA-902505 Inorganic Anions by EPA 300/300.1
E300

Batch 902505, Chloride recovered below QC limits
Samples affected are: 453592-003, -006, -002, -004, -001, -007, -008, -005.
The Laboratory Control Sample for Chloride is within laboratory Control Limits

Certificate of Analysis Summary 453592

Southern Union Gas Services- Monahans, Monahans, TX

Project Name: (RP-837)

Project Id: MF-16' Bettis
Contact: Ben Arguijo
Project Location: Lea County, NM

Date Received in Lab: Thu Dec-06-12 11:30 am
Report Date: 11-DEC-12
Project Manager: Nicholas Straccione

Analysis Requested													
	Lab Id:	453592-001		453592-002		453592-003		453592-004		453592-005		453592-006	
	Field Id:	North SideWall		South SideWall		East SideWall #1		East SideWall #2		West SideWall #1		West SideWall #2	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-05-12 08:00		Dec-05-12 08:30		Dec-05-12 09:00		Dec-05-12 09:30		Dec-05-12 10:00		Dec-05-12 10:30	
Inorganic Anions by EPA 300/300.1 SUB: TX104704215	***Extracted:***	Dec-08-12 14:48		Dec-08-12 15:05		Dec-08-12 15:23		Dec-08-12 15:40		Dec-08-12 15:58		Dec-08-12 16:15	
	Analyzed:	Dec-08-12 14:48		Dec-08-12 15:05		Dec-08-12 15:23		Dec-08-12 15:40		Dec-08-12 15:58		Dec-08-12 16:15	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		ND	1.06	1.94	1.04	1.11	1.06	1.82	1.06	2.18	1.07	2.33	1.06
Percent Moisture	***Extracted:***												
	Analyzed:	Dec-10-12 09:25		Dec-10-12 09:25		Dec-10-12 09:25		Dec-10-12 09:25		Dec-10-12 09:25		Dec-10-12 09:25	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		5.96	1.00	4.20	1.00	5.78	1.00	6.10	1.00	6.62	1.00	5.46	1.00
TPH By SW8015 Mod	***Extracted:***	Dec-07-12 08:30		Dec-07-12 08:30		Dec-07-12 08:30		Dec-07-12 08:30		Dec-07-12 08:30		Dec-07-12 08:30	
	Analyzed:	Dec-07-12 14:41		Dec-07-12 15:09		Dec-07-12 15:42		Dec-07-12 16:12		Dec-07-12 16:40		Dec-07-12 17:13	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	15.9	ND	15.6	ND	15.9	ND	16.0	ND	16.0	ND	15.8
C12-C28 Diesel Range Hydrocarbons		ND	15.9	ND	15.6	ND	15.9	ND	16.0	ND	16.0	ND	15.8
C28-C35 Oil Range Hydrocarbons		ND	15.9	ND	15.6	ND	15.9	ND	16.0	ND	16.0	ND	15.8
Total TPH		ND	15.9	ND	15.6	ND	15.9	ND	16.0	ND	16.0	ND	15.8

Nicholas Straccione
Project Manager

Certificate of Analysis Summary 453592

Southern Union Gas Services- Monahans, Monahans, TX

Project Name: (RP-837)

Project Id: MF-16' Bettis
Contact: Ben Arguijo
Project Location: Lea County, NM

Date Received in Lab: Thu Dec-06-12 11:30 am
Report Date: 11-DEC-12
Project Manager: Nicholas Straccione

Analysis Requested									
	Lab Id:	453592-007		453592-008					
	Field Id:	Floor #1		Floor #2					
	Depth:								
	Matrix:	SOIL		SOIL					
	Sampled:	Dec-05-12 11:00		Dec-05-12 11:30					
BTEX by EPA 8021B	*Extracted:*	Dec-10-12 15:50		Dec-10-12 15:50					
	Analyzed:	Dec-10-12 18:01		Dec-10-12 17:12					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		ND	0.00105	ND	0.00105				
Toluene		ND	0.00210	ND	0.00209				
Ethylbenzene		ND	0.00105	ND	0.00105				
m_p-Xylenes		ND	0.00210	ND	0.00209				
o-Xylene		ND	0.00105	ND	0.00105				
Total Xylenes		ND	0.00105	ND	0.00105				
Total BTEX		ND	0.00105	ND	0.00105				
Inorganic Anions by EPA 300/300.1 SUB: TX104704215	*Extracted:*	Dec-08-12 16:32		Dec-08-12 17:25					
	Analyzed:	Dec-08-12 16:32		Dec-08-12 17:25					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Chloride		6.30	1.06	2.03	1.04				
Percent Moisture	*Extracted:*								
	Analyzed:	Dec-10-12 09:25		Dec-10-12 09:25					
	Units/RL:	%	RL	%	RL				
Percent Moisture		5.27	1.00	4.17	1.00				
TPH By SW8015 Mod	*Extracted:*	Dec-07-12 08:30		Dec-07-12 08:30					
	Analyzed:	Dec-07-12 17:45		Dec-07-12 18:57					
	Units/RL:	mg/kg	RL	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	15.8	ND	15.6				
C12-C28 Diesel Range Hydrocarbons		ND	15.8	ND	15.6				
C28-C35 Oil Range Hydrocarbons		ND	15.8	ND	15.6				
Total TPH		ND	15.8	ND	15.6				

Nicholas Straccione
Project Manager

XENCO Laboratories

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantiation limit and above the detection limit.

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

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

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: (RP-837)

Work Orders : 453592,

Project ID: MF-16' Bettis

Lab Batch #: 902402 **Sample:** 453592-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/07/12 14:41

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.5	99.6	96	70-135	
o-Terphenyl	46.4	49.8	93	70-135	

Lab Batch #: 902402 **Sample:** 453592-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/07/12 15:09

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.1	99.7	91	70-135	
o-Terphenyl	44.7	49.9	90	70-135	

Lab Batch #: 902402 **Sample:** 453592-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/07/12 15:42

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.4	100	88	70-135	
o-Terphenyl	43.3	50.1	86	70-135	

Lab Batch #: 902402 **Sample:** 453592-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/07/12 16:12

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.0	99.9	89	70-135	
o-Terphenyl	44.0	50.0	88	70-135	

Lab Batch #: 902402 **Sample:** 453592-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/07/12 16:40

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.4	99.8	93	70-135	
o-Terphenyl	45.6	49.9	91	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: (RP-837)

Work Orders : 453592, **Project ID:** MF-16' Bettis

Lab Batch #: 902402 **Sample:** 453592-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/07/12 17:13

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.9	99.7	98	70-135	
o-Terphenyl	48.7	49.9	98	70-135	

Lab Batch #: 902402 **Sample:** 453592-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/07/12 17:45

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.6	99.8	89	70-135	
o-Terphenyl	43.4	49.9	87	70-135	

Lab Batch #: 902402 **Sample:** 453592-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/07/12 18:57

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.1	99.9	94	70-135	
o-Terphenyl	45.8	50.0	92	70-135	

Lab Batch #: 902523 **Sample:** 453592-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/10/12 17:12

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0257	0.0300	86	80-120	
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	

Lab Batch #: 902523 **Sample:** 453592-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/10/12 18:01

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0271	0.0300	90	80-120	
4-Bromofluorobenzene	0.0243	0.0300	81	80-120	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: (RP-837)

Work Orders : 453592, **Project ID:** MF-16' Bettis

Lab Batch #: 902402 **Sample:** 630894-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/07/12 12:35

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.8	100	93	70-135	
o-Terphenyl	44.9	50.0	90	70-135	

Lab Batch #: 902523 **Sample:** 630987-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/10/12 16:55

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0251	0.0300	84	80-120	
4-Bromofluorobenzene	0.0247	0.0300	82	80-120	

Lab Batch #: 902402 **Sample:** 630894-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/07/12 10:51

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.1	100	91	70-135	
o-Terphenyl	52.7	50.1	105	70-135	

Lab Batch #: 902523 **Sample:** 630987-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/10/12 16:22

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	80-120	
4-Bromofluorobenzene	0.0287	0.0300	96	80-120	

Lab Batch #: 902402 **Sample:** 630894-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/07/12 12:04

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.8	99.8	89	70-135	
o-Terphenyl	54.9	49.9	110	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: (RP-837)

Work Orders : 453592,

Project ID: MF-16' Bettis

Lab Batch #: 902523 **Sample:** 630987-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/11/12 08:24

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0311	0.0300	104	80-120	
4-Bromofluorobenzene	0.0289	0.0300	96	80-120	

Lab Batch #: 902402 **Sample:** 453592-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/08/12 00:59

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	100	101	70-135	
o-Terphenyl	54.1	50.1	108	70-135	

Lab Batch #: 902523 **Sample:** 453592-008 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/10/12 17:28

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0314	0.0300	105	80-120	
4-Bromofluorobenzene	0.0287	0.0300	96	80-120	

Lab Batch #: 902402 **Sample:** 453592-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/08/12 01:33

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.1	100	96	70-135	
o-Terphenyl	54.8	50.1	109	70-135	

Lab Batch #: 902523 **Sample:** 453592-008 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/10/12 17:45

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

XENCO Laboratories

BS / BSD Recoveries

Project Name: (RP-837)

Work Order #: 453592 **Project ID:** MF-16' Bettis

Analyst: KEB **Date Prepared:** 12/10/2012 **Date Analyzed:** 12/10/2012

Lab Batch ID: 902523 **Sample:** 630987-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00100	0.100	0.103	103	0.0996	0.0988	99	4	70-130	35	
Toluene	<0.00200	0.100	0.103	103	0.0996	0.0983	99	5	70-130	35	
Ethylbenzene	<0.00100	0.100	0.0997	100	0.0996	0.0968	97	3	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.213	107	0.199	0.208	105	2	70-135	35	
o-Xylene	<0.00100	0.100	0.100	100	0.0996	0.102	102	2	71-133	35	

Analyst: JOL **Date Prepared:** 12/08/2012 **Date Analyzed:** 12/08/2012

Lab Batch ID: 902505 **Sample:** 630973-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<1.00	100	97.7	98	100	97.0	97	1	80-120	20	

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

XENCO Laboratories

BS / BSD Recoveries

Project Name: (RP-837)

Work Order #: 453592
Analyst: KEB
Lab Batch ID: 902402
Sample: 630894-1-BKS
Batch #: 1
Units: mg/kg

Project ID: MF-16' Bettis
Date Prepared: 12/07/2012
Date Analyzed: 12/07/2012
Matrix: Solid

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
	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	1030	103	998	983	98	5	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	1000	100	998	962	96	4	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

XENCO Laboratories

Form 3 - MS Recoveries

Project Name: (RP-837)

Work Order #: 453592

Lab Batch #: 902505 **Project ID:** MF-16' Bettis

Date Analyzed: 12/08/2012 **Date Prepared:** 12/08/2012 **Analyst:** JOL

QC- Sample ID: 453595-001 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	672	101	596	0	80-120	X

Lab Batch #: 902505

Date Analyzed: 12/08/2012 **Date Prepared:** 12/08/2012 **Analyst:** JOL

QC- Sample ID: 453597-002 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	172	103	242	68	80-120	X

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

XENCO Laboratories

Form 3 - MS / MSD Recoveries

Project Name: (RP-837)

Work Order # : 453592 **Project ID:** MF-16' Bettis

Lab Batch ID: 902523 **QC- Sample ID:** 453592-008 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/10/2012 **Date Prepared:** 12/10/2012 **Analyst:** KEB

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00104	0.104	0.0963	93	0.104	0.0917	88	5	70-130	35	
Toluene	<0.00209	0.104	0.101	97	0.104	0.0961	92	5	70-130	35	
Ethylbenzene	<0.00104	0.104	0.0941	90	0.104	0.0915	88	3	71-129	35	
m_p-Xylenes	<0.00209	0.209	0.198	95	0.208	0.195	94	2	70-135	35	
o-Xylene	<0.00104	0.104	0.0942	91	0.104	0.0942	91	0	71-133	35	

Lab Batch ID: 902402 **QC- Sample ID:** 453592-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/08/2012 **Date Prepared:** 12/07/2012 **Analyst:** KEB

Reporting Units: mg/kg

TPH By SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<16.0	1060	1110	105	1060	1100	104	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<16.0	1060	1130	107	1060	1110	105	2	70-135	35	

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: (RP-837)

Work Order #: 453592

Lab Batch #: 902481 **Project ID:** MF-16' Bettis

Date Analyzed: 12/10/2012 09:25 **Date Prepared:** 12/10/2012 **Analyst:** WRU

QC- Sample ID: 453595-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	1.52	1.47	3	20	

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

Xenco Laboratories

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Ben J. Arguijo; Joel Lowry
Project Name: MF-16" Bettis
Company Name: Basin Environmental Service Technologies, LLC
Project #: (RP-837)
Company Address: P.O. Box 301
Project Loc: Lea County, NM
City/State/Zip: Lovington, NM 88260
PO #: Bill Southern Union Gas Services
Telephone No: (575)396-2378
Fax No: (575) 396-1429
Report Format: [X] Standard [ ] TRRP [ ] NPDES
Sampler Signature: Joel Lowry
e-mail: pm@basinenv.com curt.stanley@sug.com rose.slade@sug.com

(lab use only) ORDER #: 453575 453592

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW = Drinking Water SL = Sludge	GW = Groundwater S = Soil/Soil	NP = Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M TX 1006	TPH: TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	CHLORIDES	Total Dissolved Solids		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY
	North Sidewall			12/5/2012	8:00		1	X								Soil			X											X				X
	South Sidewall			12/5/2012	8:30		1	X								Soil			X											X				X
	East Sidewall #1			12/5/2012	9:00		1	X								Soil			X											X				X
	East Sidewall #2			12/5/2012	9:30		1	X								Soil			X											X				X
	West Sidewall #1			12/5/2012	10:00		1	X								Soil			X											X				X
	West Sidewall #2			12/5/2012	10:30		1	X								Soil			X											X				X
	Floor #1			12/5/2012	11:00		1	X								Soil			X								X			X				X
	Floor #2			12/5/2012	11:30		1	X								Soil			X								X			X				X

Special Instructions:

Laboratory Comments:

Sample Containers intact? (Y) N
VOCs Free of Headspace? (Y) N
Labels on container(s)? (Y) N
Custody seals on container(s)? Y (N)
Custody seals on cooler(s)? Y (N)
Sample Hand Delivered by Sampler/Client Rep. ? (Y) N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 0.5 °C

Relinquished by:	Date	Time	Received by:	Date	Time
Joel Lowry	12/5/12	7:00		12/5/12	2000
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Shaunee Smith	12-6-12	11:30

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 12/06/2012 11:30:00 AM

Work Order #: 453592

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

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

Analyst:	PH Device/Lot#:

Checklist completed by: _____ Date: _____

Checklist reviewed by: _____ Date: _____