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MONITORING REPORTS YEAR(S):

2009

Basin Environmental Consulting, LLC 2018 MR 17 PM 1 23

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P. O. Box 381
Lovington, New Mexico 88260
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March 2010

Mr. Brad Jones New Mexico Energy, Minerals and Natural Resources Department New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Annual Report – 2009

Southern Union Gas Services

Southern Union Landfarm – Permit #NM-02-0019

SE ¼ of the NW ¼ of Section 36, Township 23 South, Range 36 East

Lea County, New Mexico

Dear Mr. Jones:

Basin Environmental Consulting, LLC (Basin), at the request of Southern Union Gas Services (Southern Union), assumed maintenance and reporting responsibilities of the Southern Union Landfarm in December 2009. Basin, on behalf of Southern Union, is submitting the 2009 Annual Report for the Southern Union Landfarm. The Southern Union Landfarm is being operated and maintained in accordance with New Mexico Oil Conservation Division (NMOCD), Natural Resources and Wildlife, Oil and Gas Surface Waste Management Facilities (Title 19 Chapter 15 Part 36). The Landfarm is operated by Southern Union as a "centralized" facility for Southern Union use only. A site and sample location map of the Southern Union Landfarm is provided as Figure 1.

DISPOSAL VOLUME

Receipt of impacted soil began in January 2002. As of December 31, 2009, a total of approximately 64,981 cubic yards of impacted soil from within the Southern Union gas transportation system have been emplaced in Cell-1 through Cell-15. Approximately 6,106 cubic yards of impacted soil was transported to the Landfarm during the 2009 reporting period.

MAINTENANCE

Within 72-hours of being delivered to the landfarm, soil stockpiles were pushed down and contoured into a treatment lift. Mechanical disking of the soil contained in the treatment cells occurred every two weeks.

TREATMENT ZONE MONITORING

On April 20 and 21, 2009, Southern Union collected a composite soil sample (Cell #7 – Comp, Cell #11 – Comp, Cell #12 – Comp, Cell #13 – Comp, Cell #14 – Comp, and Cell #15 – Comp) from the treatment zone of Landfarm Cells 7, 11, 12, 13, 14 and 15. In addition, Southern Union collected north and south composite soil samples (Cell #2 North Comp and Cell #2 South Comp) from the treatment zone of Landfarm Cell #2. The soil samples were analyzed for concentrations of total petroleum hydrocarbons (TPH) using method SW8015M. The analytical results indicated TPH concentrations ranged from less than 10 mg/Kg for soil sample "Cell 12 – Comp" to 1,080 mg/Kg for soil sample "Cell #2 South Comp". Please reference Table 1, 2009 Concentrations of Benzene, BTEX, TPH and Chloride in the Treatment Zone. Laboratory analytical reports are provided with this Annual Monitoring Report.

On December 15, 2009, Basin collected one (1) to five (5) four-point composite treatment zone soil samples from each of the treatment cells (Cells 1 through 15) being utilized. The soil samples were analyzed for concentrations of TPH and chloride. The analytical results indicated TPH concentrations ranged from 61.5 mg/Kg for soil sample TZ Cell 14 G1 to 4,398 mg/Kg for soil sample TZ Cell 3 G1. Chloride concentrations ranged from less than the laboratory MDL for soil samples TZ Cell 12 G1, TZ Cell 8 G2, TZ Cell 5 G1, TZ Cell 6 G1, TZ Cell 15 G1 and TZ Cell 14 G1 to 2,050 mg/Kg for soil sample TZ Cell 8 G1.

The locations of soil samples collected in treatment cells 1 through 15 during the December 2009 sampling events are depicted on Figures 2 through 16.

VADOSE ZONE MONITORING

A single soil sample (Landfarm Background) was collected on April 11, 2001, from the vadose zone in an undisturbed location within the Landfarm area to establish background concentrations of NMOCD constituents of concern (COCs) as listed below:

- Total petroleum hydrocarbons (TPH);
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX);
- Anions and cations; and
- RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver).

Analytical results of the background sample indicated the TPH concentration was 134 mg/Kg. Anions, cations, and RCRA metals concentrations of background samples were typical of native undisturbed soil. Please reference Table 2, Historic Concentrations of Hydrocarbons, Chlorides, Sulfates and Alkalinity in the Vadose Zone and Table 3, Historic Concentrations of Metals in the Vadose Zone.

On April 20 and 21, 2009, Southern Union collected a grab soil sample (Cell #7 – Core @ 24", Cell #11 – Core @ 24", Cell #12 – Core @ 24", Cell #13 – Core @ 24", Cell #14 - Core @ 24", Cell #2 Core @ 24", Cell #15 Core @ 24") at a depth of two (2) feet below ground surface (vadose zone) from treatment Cells 2, 7, 11, 12, 13, 14, and 15. The soil samples were collected and submitted to the laboratory to determine the extent (if any) of impact to the underlying soil at the landfarm. The grab soil samples were collected and analyzed for constituent concentrations of BTEX using method EPA 8021b, TPH using method SW8015M and chloride using EPA 300. Please reference Table 4, 2009 Concentrations of Benzene, BTEX, TPH and Chloride in the Vadose Zone.

The analytical results indicated benzene, BTEX, and TPH concentrations were below the laboratory MDL for all soil samples submitted. Chloride concentrations ranged from less than the laboratory MDL in soil samples Cell #7 – Core @ 24", Cell #12 – Core @ 24", Cell #14 – Core @ 24", and Cell #2 Core @ 24" to 48 mg/Kg in soil sample Cell #11 – Core @ 24".

On December 16, 2009, Basin collected one (1) to five (5) grab samples at a depth of three (3) to four (4) feet bgs (vadose zone) from treatment Cells (Cells 1 through 15) being utilized. The soil samples were analyzed for concentrations BTEX, TPH and chloride. The analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate laboratory MDL in each collected soil sample. Chloride concentrations ranged from less than the laboratory MDL for soil samples VZ Cell 1 G1, VZ Cell 1 G2, VZ Cell 2 G2, VZ Cell 3 G2, VZ Cell 3 G5, VZ Cell 4 G1, VZ Cell 4 G4, VZ Cell 4 G5, VZ Cell 7 G1, VZ Cell 5 G1, VZ Cell 6 G2, VZ Cell 10 G4, and VZ Cell 11 G1 to 173 mg/Kg for soil sample VZ Cell 10 G3.

The locations of soil samples collected in the vadose zone from treatment cells 1 through 15 during the December 15, 2009 sampling event are depicted on Figure 1.

CONCLUSIONS

The laboratory analytical results of vadose zone soil sampling indicate soil beneath the Southern Union Landfarm has not been significantly affected above background levels established prior to the construction of the landfarm treatment cells. The laboratory analytical results indicate hydrocarbon impacted soil placed in the treatment cells is naturally attenuating within the lifts. The laboratory analytical results collected from the treatment cells on December 15, 2009, indicated soil samples TZ Cell 14 G1, TZ Cell 2 G1 through G5, TZ Cell 7 G1, TZ Cell 5 G1, TZ Cell 6 G1 and G2, TZ Cell 9 G1 through G5, TZ Cell 10 G1 through G4, TZ Cell 15 G1, TZ Cell 1 G5 and TZ Cell 12 G1 contained TPH concentrations less than the NMOCD remedial goals (500 mg/Kg TPH).

RECOMMENDATIONS

Based on analytical results of the soil samples collected from the treatment Cells #1, #14, #2, #7, #5, #6, #9, #10, #15 and #12, Southern Union requests NMOCD approval to transport the remediated soil from the respective landfarm cells to a soil staging area located within the landfarm facility. The remediated soil will be used as backfill material at Southern Union remediation sites in the future. Bi-monthly tilling of the treatment zones will continue during the 2010 reporting period. Soil samples of the vadose and treatment zones will be collected and submitted to the laboratory for determination of constituent concentrations on a bi-annual schedule. Vadose zone soil samples will be analyzed using method 8015M (TPH) and method EPA 300 (chloride). Treatment zone soil samples will be analyzed using method 8015M (TPH) and method EPA 300 (chloride). An Annual Report will be submitted in 2011 documenting the results of the 2010 treatment cell and vadose zone sampling events.

LIMITATIONS

Basin Environmental Consulting, LLC has prepared this Southern Union Landfarm Annual Report to the best of its ability. No other warranty, expressed or implied, is made or intended.

Basin Environmental Consulting, LLC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Basin Environmental Consulting, LLC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Basin Environmental Consulting, LLC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental Consulting, LLC also 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 Consulting, LLC and/or Southern Union Gas Services.

Should you have any questions or concerns, please contact Rose Slade at 432-940-5147 or me at (575) 441-2244.

Respectfully submitted,

Curt D. Stanley

Basin Environmental Consulting, LLC

Cc:

Ed Hansen, NMOCD-Santa Fe, New Mexico (edwardj.hansen@state.nm.us)

Rose Slade, Southern Union Gas Services, Monahans, Texas (rose.slade@sug.com)

Curt Stanley, Basin Environmental Consulting, Lovington, NM (cdstanley@basin-consulting.com)

Enclosures:

Figures

Figure 1: Site and Sample Location Map

Tables

Table 1: 2009 Concentrations of Benzene, BTEX, TPH and Chlorides in the Treatment Zone.

Table 2: Historic Concentrations of Hydrocarbons, Chlorides, Sulfates and Alkalinity in the Vadose

Zone.

Table 3: Historic Concentrations of Metals in the Vadose Zone

Table 4: 2009 Concentrations of Benzene, BTEX, TPH and Chloride in the Vadose Zone

Laboratory Analytical Reports

Photographs

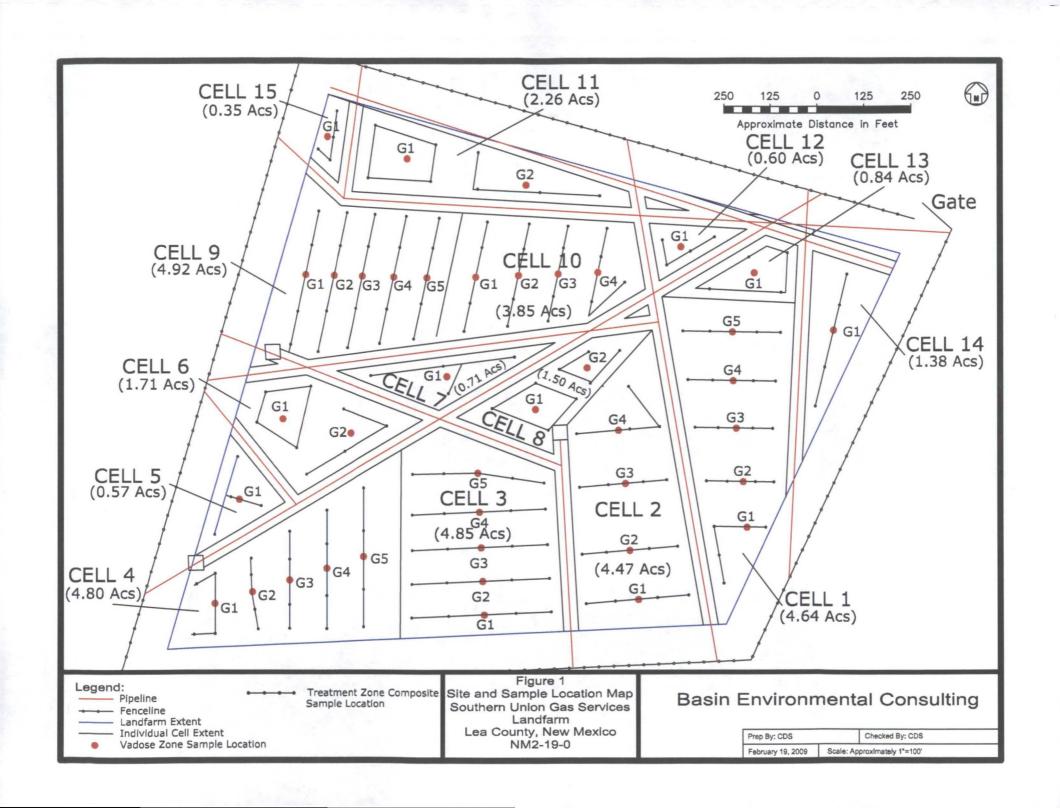


TABLE 1

2009 CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN THE TREATMENT ZONE

SOUTHERN UNION GAS SERVICES SOUTHERN UNION LAND FARM LEA COUNTY, NEW MEXICO NMOCD Permit #NM-02-19

				MET	HOD: EPA SI	N 846-8021B,	5030			ME'	THOD: 8015	VI		TOTAL	TOTAL	EPA 300
SAMPLE LOCATION	SAMPLE DEPTH (bgs)	SAMPLE DATE	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	M,P- XYLENES (mg/Kg)	O- XYLENES (mg/Kg)	BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	GRO C ₆ -C ₁₀ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	DRO C ₁₀ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₂₈ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	Chloride (mg/kg)
Cell #7 - Comp	-	4/20/2009	-	-		-	-		-	<10.0		55.1	-	55.1	-	-
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TZ Cell 3 G2	-	12/15/2009	-	-	-	-	-	-	<16.8	-	630		67.5	-	697.5	26.3
TZ Cell 3 G3	-	12/15/2009	-	-	-	-	-	-	<80.9	-	2,930	-	365	·	3,295	26.6
TZ Cell 3 G4	-	12/15/2009		-		-			<81.9		2,120	-	247	-	2,367	15.8
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TZ Cell 4 G3	-	12/15/2009	-	-			-	-	<19.6		436		31.4		467.4	9.49
TZ Cell 4 G4	-	12/15/2009		-	-		-	-	<18.3	<u> </u>	302	-	22.4		324.4	16.1
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TABLE 1

2009 CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN THE TREATMENT ZONE

SOUTHERN UNION GAS SERVICES SOUTHERN UNION LAND FARM LEA COUNTY, NEW MEXICO NMOCD Permit #NM-02-19

	CAMPLE			MET	IOD: EPA S	N 846-8021B,	5030			MET	THOD: 8015N	И		TOTAL	TOTAL	EPA 300
SAMPLE LOCATION	SAMPLE DEPTH (bgs)	SAMPLE DATE	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	M,P- XYLENES (mg/Kg)	O- XYLENES (mg/Kg)	BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	GRO C ₆ -C ₁₀ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	DRO C ₁₀ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₂₈ (mg/Kg)	TPH C ₆ -C ₃₆ (mg/Kg)	Chloride (mg/kg)
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TZ Cell 9 G3	-	12/15/2009	-	-	-	-	-	•	<17.0	-	86.9	-	28.8	-	115.7	58.6
TZ Cell 9 G4	-	12/15/2009	-	+	-	-	-	-	<16.3		210	-	58.2	-	268.2	43.5
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TZ Cell 10 G2	-	12/15/2009		-	-	-	-	-	<16.2	-	217		52.4		269.4	11.9
TZ Cell 10 G3	-	12/15/2009	-	-	-	-	-	-	<17.0	-	96.8	-	24.1		120.9	9.06
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TABLE 2 HISTORIC CONCENTRATIONS OF HYDROCARBONS, CHLORIDES, SULFATES AND ALKALINITY IN THE VADOSE ZONE

SOUTHERN UNION GAS SERVICES SOUTHERN UNION LAND FARM LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DEPTH (bgs)	SAMPLE DATE	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	M,P- XYLENES (mg/Kg)	O- XYLENES (mg/Kg)	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 ₃₅ (mg/Kg)
Landfarm Background	2' bgs	4/11/2001	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	-	-	-	134.0
The state of the s	實施從 古包	The same			是展列,但和几	"城市"的发展"文"		李朝 25%		ATTEN TO	, 31	等级。但

\$	SAMPLE LOCATION	SAMPLE DEPTH (bgs)	SAMPLE DATE	SODIUM (mg/kg)	CALCIUM (mg/Kg)	MAGNESIUM (mg/Kg)	POTASSIUM (mg/Kg)	CHLORIDE (mg/Kg)	SULFATE (mg/Kg)	CARBONATE (mg/Kg)	BICARBONATE (mg/Kg)
T	Landfarm Background	2' bgs	4/11/2001	14.4	73.54	8.54	11.24	<10	35.2	<1.0	140
		张明成本。张 司		Mark Markey Markey		87.37.31.15			Z2 1	Section Charles and the second	977 TAX SEC.

TABLE 3

HISTORIC CONCENTRATIONS OF METALS IN THE VADOSE ZONE

SOUTHERN UNION GAS SERVICES SOUTHERN UNION LAND FARM LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DEPTH (bgs)	SAMPLE DATE	SILVER (mg/Kg)	ARSENIC (mg/Kg)	BARIUM (mg/Kg)	CADMIUM (mg/Kg)	CHROMIUM (mg/Kg)	MERCURY (mg/Kg)	LEAD (mg/Kg)	SELENIUM (mg/Kg)
Landfarm Background	2' bgs	4/11/2001	ND	0.923	47.92	0.3605	4.21	ND	ND	1.959
56 W. W. W. W. W. B. B. F. B.	Smile Ti		Mark Com	eta eta idaz.			建设设			1

TABLE 4 2009 CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN THE VADOSE ZONE

SOUTHERN UNION GAS SERVICES SOUTHERN UNION LAND FARM LEA COUNTY, NEW MEXICO NMOCD Permit #NM-02-19

	0.4.451.5	T		METI	HOD: EPA SV	V 846-8021B	5030			ME	'HOD: 8015	1		TOTAL	TOTAL	EPA 300
SAMPLE LOCATION	SAMPLE DEPTH	SAMPLE	BENZENE	TOLUENE	ETHYL-	M,P-	0-	BTEX	GRO	GRO	DRO	DRO	ORO	TPH	TPH	Chloride
SAME LE LOCATION	(bgs)	DATE	(mg/Kg)	(mg/Kg)	BENZENE	XYLENES	XYLENES	(mg/Kg)	C6-C12	C6-C10	C12-C28	C10-C28	C28-C35	C6-C28	C ₅ -C ₃₅	(mg/kg)
	(bgs)		(mg/kg)	(Bylight)	(mg/Kg)	(mg/Kg)	(mg/Kg)		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(9,9)
Cell #7 - Core @ 24"	2' bgs	4/20/2009	<0.050	<0.050	<0.050	<0.0	0300	<0.050	-	<10.0	-	<10.0		<10.0	-	<16
THE PROPERTY OF THE PARTY OF TH	100	367 Tree	100000000		1016年繁治			A.	""		1. 18 1. 1. 1. 1.		19. 3	14 Table 18	, n	
Cell #11 - Core @ 24"	2' bgs	4/20/2009	<0.050	<0.050	<0.050	<0.0	300	<0.050	-	<10.0	-	<10.0	-	<10.0	-	48
THE THE TANK THE	1. A. Dallant	港大河	小的次式響	第的意识的	八生 不可能	大学 できる	るように発展	Sandy of	CANAMA	All St. Buch			A MAN	190 O 1		大き かっちょう
Cell #12 - Core @ 24"	2' bgs	4/20/2009	<0.050	<0.050	<0.050	<0.0	0300	<0.050	-	<10.0	-	<10.0	-	<10.0	-	<16
THE STATE OF THE	5, 3, ° 5,	37 300	া কান্যকুর	Mar in	173	Register .	4 经经济的人	The Carbon of No.	CONTRACTOR	13 THE RESERVE	1. (表情報)	こころぎ チ	1	F. 1. 18	1人。"积余	\$1.50 BUST
Cell #13 - Core @ 24"	2' bgs	4/20/2009	<0.050	< 0.050	<0.050	<0.0	0300	< 0.050	-	<10.0	-	<10.0	-	<10.0	-	32
N. 44.25 (C. 10)		3.03	1.00	4	1 19 165		4 4	*	1. 130	7 7 7 4	· Antiber	47.1		4, 57 12	19 (S. O.)	See See
Cell #14 - Core @ 24"	2' bgs	4/20/2009	<0.050	<0.050	<0.050	<0.0	0300	<0.050		<10.0	-	<10.0	-	<10.0	-	<16
A Section of the sect	2 . Tu Su		11116				" Contractor		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S. No. 17	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		2 146		1.1	4 4 3
Cell #2 Core @ 24"	2' bas	4/21/2009	<0.050	<0.050	<0.050	<0.0	300	< 0.050	-	<10.0	-	<10.0	-	<10.0	-	<16
141 34 54 6 TA	- NATE		A STATE	然来还会 你。	1014 (1888)	19282 0 15	L. Artist		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	A. Carrier	1 300	7.5-97.5	14.1	Jan 1997	Charles and the	1
Cell #15 Core @ 24"	2' bgs	4/21/2009	<0.050	<0.050	<0.050	<0.0	300	< 0.050	-	<10.0	-	<10.0	-	<10.0	-	16
3334	10. De 19. 19. 19.	350 A	1 235 %	j		28 a		Sp. 1 st = 1.5	C. 1 (1883)	2010	A STAIN!	and and distance			1 1	翻译·文本·产
VZ Cell 14 C1	3'-4' bas	12/16/2009	<0.0011	< 0.0023	<0.0011	< 0.0023	<0.0011	<0.0023	<17.0	-	<17.0	-	<17.0	-	<17.0	25.1
2000	11.0	1.17.70		4.	75 1 35.5	***	7. 75.9		1,500		****	1000	11 3 40	6.7	7. 34	Mar. 5-11
VZ Cell 1 G1	3'-4' bas	12/16/2009	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.0	-	<17.0	-	<17.0	-	<17.0	<4.79
VZ Cell 1 G2	3' 4' bas	12/16/2009	< 0.0011	< 0.0022	<0.0011	< 0.0022	<0.0011	<0.0022	<16.2		<16.2	-	<16.21	-	<16.2	<4.55
VZ Cell 1 G3	3'-4' bas	12/16/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.6	-	<16.6	-	<16.6	-	<16.6	46.9
VZ Cell 1 G4	3'-4' bas	12/16/2009	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.1	-	<16.1		<16.1	-	<16.1	15.7
VZ Cell 1 G5	3'-4' bas	12/16/2009	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	< 0.0021	<15.8	-	<15.8		<15.8	-	<15.8	4.57
A. J. E. B. S.	101 3 7		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	82.85	· 一方野生	(g. 3 1 % , or 1 %)	5497.33	7 8 700	1 1 1 M 1 S 1 A N	5 4 1 5 15 17 18 19 3 3 A	20129751	1400031	111111111111	强的主义 3%	14 64 35	Service Control
VZ Cell 2 G1	3'-4' bas	12/16/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.2	-	<16.2	-	<16.2	-	<16.2	14.4
VZ Cell 2 G2	3'-4' bas	12/16/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.1	-	<16.1	-	<16.1	-	<16.1	<4.53
VZ Cell 2 G3	3'-4' bas	12/16/2009	<0.0011	< 0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.1	-	<17.1		<17.1		<17.1	31.2
VZ Cell 2 G4	3'-4' bas	12/16/2009	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.1	_	<16.1	<u> </u>	<16.1	_	<16.1	10.6
V2 OCH 2 OT	7 # 193	12 10/2000	3.00	(S)	0.00	13 C		0.002	1946		- 13 機能: * 3	1 9 7 94	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.5 Kg 24	1 14/5	7 99 m
VZ Cell 3 G1	3'-4' bgs	12/16/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	-	<16.7		<16.7	-	<16.7	7.03
VZ Cell 3 G2	3'-4' bas	12/16/2009	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<16.9		<16.9		<16.9	·	<16.9	<16.9
VZ Cell 3 G3	3'-4' bgs	12/16/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.6	-	<16.6		<16.6		<16.6	11.5
VZ Cell 3 G4	3'-4' bas	12/16/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.6	_	<16.6		<16.6		<16.6	5.35
VZ Cell 3 G5	3'-4' bgs	12/16/2009	<0.0011	< 0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.9		<16.9		<16.9	-	<16.9	<4.73
V2 06# 0 00	1 - 1 DGS	12 10/2003 15 Eq. (30.00	-0.0022	2.40	0.0022		7	25.00	2 (4)	F4834 .		1 60 19 101	1.00	12.10	
VZ Cell 4 G1	3'-4' bas	12/16/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.9		<16.9	<u> </u>	<16.9		<16.9	<4.74
VZ Cell 4 G1	3'-4' bas	12/16/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.2		<16.2	<u> </u>	<16.2		<16.2	8.56
VZ Cell 4 G3	3-4 bgs	12/16/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.4		<16.4		<16.4		<16.4	12.9
VZ Cell 4 G3	3'-4' bgs	12/16/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.6	-	<16.6	-	<16.6		<16.6	<4.64
VZ Cell 4 G4	3'-4' bgs	12/16/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.6	 	<16.6	 	<16.6		<16.6	<4.64
VZ Cell 4 Go	3-4 bys		70.0011	20.0022	20.0011			V0.0022		16. 18 JAN 25.53	10.0	Part V		24 C 4	210.0	
4 7 . F Farry 100 - 14 5	77.90	12/16/2009	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<17.7	(23) 11, 22, 25%	. <17.7	10. 1 3	<17.7	1. 10 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	<17.7	63
VZ Cell 8 G1	3'-4' bgs	1 12/10/2009	₹0.00 12	<0.0024	₹0.0012	<0.0024	<0.0012	<0.0024	\$17.7		. 511.1		1 -1/./		517.7	1 63

TABLE 4
2009 CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN THE VADOSE ZONE

SOUTHERN UNION GAS SERVICES SOUTHERN UNION LAND FARM LEA COUNTY, NEW MEXICO NMOCD Permit #NM-02-19

				METH	IOD: EPA SV	V 846-8021B	5030			MET	HOD: 8015	VI		TOTAL	TOTAL	EPA 300
SAMPLE LOCATION	SAMPLE DEPTH (bgs)	SAMPLE DATE	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	M,P- XYLENES (mg/Kg)	O- XYLENES (mg/Kg)	BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	GRO C ₆ -C ₁₀ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	DRO C ₁₆ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₂₈ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	Chloride (mg/kg)
VZ Cell 8 G2	3'-4' bgs	12/16/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.5	•	<16.5	-	<16.5	-	<16.5	33.4
		说是"我的教师	新聞報道於 :	11.5% 11.00	SMERCH.	27 1 May 123	小型型		MANNTY	A TOWN		77 1991/25	A Party		これ 発験	J. A. C. W. J.
VZ Cell 7 G1	3'-4' bgs	12/16/2009	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.2	-	<16.2		<16.2	-	<16.2	<4.55
1887 17	7	13/2		75 15 3 m 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AND SHIP IN	- "44. \$ 0 , "38.9 \$40.0	45.源性图15	19. The 19. The Page	A 经数据 计	李二氏 在時期	ALL MAN	27.	A	3 Table 1	Nº 45.ES	"理解性","对
VZ Cell 5 G1	3'-4' bgs	12/16/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.6	-	<16.6		<16.6	-	<16.6	<4.65
September 15		1,000			A.16. 18 . 19	77 T.	3.4 Test 2.5	(1) 1. 多司		1 1 2 2 2 3	255 A.P. C.	N 3 . W . S	14 N. E. C. S.	- 拼	1	4.
VZ Cell 6 G1	3'-4' bgs	12/16/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	-	<16.7	-	<16.7	-	<16.7	<4.68
VZ Cell 6 G2	3'-4' bgs	12/16/2009	<0.0011	<0.0022	<0.0011	< 0.0022	<0.0011	<0.0022	<16.7	-	<16.7	-	<16.7	-	<16.7	<4.68
A STATE OF THE STA	of Warry		25 T		Sec. 3.	5. Pr. 17 * 28	.\$137.5°		7.43 A.		1277年1		TANK	25	1.25	54 10 E/A
VZ Cell 9 G1	3'-4' bgs	12/16/2009	<0.0012	<0.0023	<0.0012	< 0.0023	<0.0012	<0.0023	<17.8	-	<17.8	-	<17.8	-	<17.8	9.3
VZ Cell 9 G2	3'-4' bgs	12/16/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.4	-	<16.4	-	<16.4	-	<16.4	5.13
VZ Cell 9 G3	3'-4' bgs	12/16/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.1	-	<16.1	-	<16.1	-	<16.1	10.7
VZ Cell 9 G4	3'-4' bgs	12/16/2009	<0.0012	<0.0023	<0.0012	< 0.0023	<0.0012	<0.0023	<17.4	-	<17.4	-	<17.4	-	<17.4	19.9
VZ Cell 9 G5	3'-4' bgs	12/16/2009	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.1	-	<17.1	-	<17.1	-	<17.1	27.5
Will to the second			201	~ .	18 1 19 20	1 × 1	1.50	1150,	11000	a a	Service .	1.	-de	7.73.75	2.77.7%	
VZ Cell 10 G1	3'-4' bgs	12/16/2009	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.0	-	<16.0	-	<16.0	-	<16.0	43.9
VZ Cell 10 G2	3'-4' bgs	12/16/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.2	-	<16.2		<16.2	-	<16.2	9.7
VZ Cell 10 G3	3'-4' bgs	12/16/2009	<0.0011	<0.0022	<0.0011	<0.0022	< 0.0011	<0.0022	<16.1	-	<16.1		<16.1	-	<16.1	173
VZ Cell 10 G4	3'-4' bas	12/16/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.2	-	<16.2	-	<16.2	-	<16.2	<4.55
Martin Control	A Mary	- 生态 1	ELECTION.	in the state of the state of	1000	E 480 46	· 第一个	N. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	SEETS .	100	经验的	言葉物大	7.2.3.3.4	京 一直		24 M 244 Car
VZ Cell 15 G1	3'-4' bgs	12/16/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.2		<16.2		<16.2	-	<16.2	17
ARREAD	線性とし、	28 343	100 m		1 132 84.	853	PAGE 1	1111 791	1,100,300	医二氯磺胺	を整い数が、	Control of the Control	"Lawrence"		。	1857 Ca 1879
VZ Cell 11 G1	3'-4' bgs	12/16/2009	< 0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.2	-	<17.2	-	<17.2	-	<17.2	<4.83
VZ Cell 11 G2	3'-4' bgs	12/16/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	-	<16.7		<16.7	-	<16.7	9.78
\$4.20g	Larger File	17 24			PRESIDE.			1. 1. 1. 1.	300 30	**	35.3	1 3 3	· ministry		100	
VZ Cell 12 G1	3'-4' bgs	12/16/2009	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.4	-	<16.4		<16.4		<16.4	14.8
ACTUAL TO A STATE OF	(NI 4		***	1.00	6,20		Mary Control		(San Color		3 1 m	1.00	1 to 1	14.	- 2200	1.
VZ Cell 13 G1	3'-4' bgs	12/16/2009	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.7	-	<15.7		<15.7		<15.7	81.4
STATE STATE OF STATE	CHARLES TO A	STATE OF THE STATE	20-28-5-7-1	三十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二	想機能。	7 7 60	M. 12, 14.	W & MAR	ALLEY CL.	A CAST	FREG. N	14.7.23	SERVICE .	To the last	され 海の	1
Background	-	4/11/2001	<0.025	<0.025	<0.025	<0.04	<0.025	-	-	-		-	-	134	134	<10



Receiving Date: 04/20/09 Reporting Date: 04/23/09

Project Number: NOT GIVEN

Project Name: CELLS 7, 11, 12, 13, & 14

Project Location: LAND FARM

Sampling Date: 04/20/09 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: CK

Analyzed By: CK

GRO DRO (C_6-C_{10}) (> $C_{10}-C_{28}$) (mg/kg)

8.1

04/23/19

12.7

LAB NUMBER SAMPLE ID

Relative Percent Difference

ANALYSIS DATE 04/22/09 04/22/09 CELL # 7 - COMP. H17276-1 <10.0 55.1 H17276-2 CELL # 7 - CORE @ 24" <10.0 <10.0 H17276-3 CELL # 11 - COMP. <10.0 114 H17276-4 CELL # 11 - CORE @ 24" <10.0 <10.0 H17276-5 CELL # 12 - COMP <10.0 <10.0 H17276-6 CELL # 12 - CORE @ 24" <10.0 <10.0 H17276-7 CELL # 13 - COMP. <10.0 754 H17276-8 <10.0 CELL # 13 - CORE @ 24" <10.0 H17276-9 CELL # 14 - COMP. <10.0 161 H17276-10 CELL # 14 - CORE @ 24" <10.0 <10.0 Quality Control 553 517 True Value QC 500 500 % Recovery 111 103

METHODS: TPH GRO & DRO: EPA SW-846 8015 M

Chemist 🔨

Date



Receiving Date: 04/20/09
Reporting Date: 04/21/09
Project Number: NOT GIVEN

Project Name: CELLS 7, 11, 12, 13, & 14

Project Location: LAND FARM

Analysis Date: 04/21/09 Sampling Date: 04/20/09 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: CK

Analyzed By: TR

LAB NO.	SAMPLE ID	CI [—] (mg/kg)
H17276-2	CELL #7-CORE @ 24"	<16
H17276-4	CELL #11-CORE @ 24"	48
H17276-6	CELL #12-CORE @ 24"	<16
H17276-8	CELL #13-CORE @ 24"	32
H17276-10	CELL #14-CORE @ 24"	<16
Quality Contr	ol	500
True Value Q		500
% Recovery	11-24-1-44-1-4-1-4-1-4-1-4-1-4-1-4-1-4-1	100
Relative Perc	ent Difference	<0.1

METHOD: Standard Methods 4500-Cl'B Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

Date

04/21/119

H17276 SUGS



Receiving Date: 04/20/09 Reporting Date: 04/24/09

Project Number: NOT GIVEN

Project Name: CELLS 7, 11, 12, 13, & 14

Project Location: LAND FARM

Sampling Date: 04/20/09 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: CK

Analyzed By: ZL

			ETHYL	TOTAL
·	BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBI SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE	04/23/09	04/23/09	04/23/09	04/23/09
H17276-2 CELL # 7 - CORE @ 24"	<0.050	<0.050	<0.050	<0.300
H17276-4 CELL # 11 - CORE @ 24"	<0.050	<0.050	<0.050	<0.300
H17276-6 CELL # 12 - CORE @ 24"	<0.050	<0.050	<0.050	<0.300
H17276-8 CELL # 13 - CORE @ 24"	<0.050	<0.050	<0.050	<0.300
H17276-10 CELL # 14 - CORE @ 24"	<0.050	<0.050	<0.050	<0.300
	,			
Quality Control	0.053	0.051	0.055	0.171
True Value QC	0.050	0.050	0.050	0.150
% Recovery	106	102	110	114
Relative Percent Difference	3.6	4.0	2.6	4.3

METHOD: EPA SW-846 8021B

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES.

Chemist'

Date



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 EAX (505) 393-2476 (325) 673-7001 EAX (325)673-7020

	(505) 393-2326 FAX (505) 393-24	76	(32	.5) 6/3-/001 F/	AX '	(325									AGI						
Company Name:				,				LL TO					····	ANAL	YSIS	3 RE	QUE	ST			
Project Manager	TONY SAVOIE				P.C	0. #:							l .								
Address: 6/2	COMMERCE POB) orc	<u></u>	1226	Co	mpa	ny:														
City: J	AL State: N M	.Zip:	5	88252	Att	tn:		and the state of the special control of the s													.
	5-395-2116 Fax#:	,		•	Ad	dres	s:														
Project #:	Project Owner	:		1	Cit	ty:	and the second s			8									.		.
Project Name: C	ELL, 5 7, 11, 12, 13, 0-14			ļ	Sta	ate:		Zip:												,	
Project Location	Don Green				Ph	one	#:			4									i		
Sampler Name:	On Green				Fa	x #:				0		,								.	
FOR LAB USE ONLY				MATRIX		PRE	SERV.	SAMPLIN	1G	00						.				.	
		(C)OMP	0	/ # L							メ				1						
Lab I.D.	Sample I D	5	Ä	WATE		iii				3 .	K										
Labi.D.	Sample I.D.	B OR	Ĭ	INDV GE		BASE	00 .:			2	5	,									
1417276-		(G)RAB	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	отнея:	ACID/BASE	ICE / COOL OTHER:	DATE	TIME	7	. <i>V</i>	U									
1	CELL#7 - COMP.	6	1	4	1	1	7	-	8:30												
Z	CELL#7 - comp. CELL#7 - COREG 24° CELL#11 - COMP. CELL#11 - COMEG 24"	6	1				7	11	8:30		V	V	1								
3	CELL# 11 - comp.		1				7	1/	8:45	V											
4	CELL#11 - CORROR 24"	G	1				4	"	1/	/	/	0									
.5	CELL" 12 - COMP.	c	1		\bot		4	17	9:00]								
Q	CELL#12 - CORE@ 24"	6 C	1		<u> </u>		4	"	"			1]					<u> </u>			. !
7	CELL# 13 - COMP.	2	1		'		1	(1	9:15	1		ļ,	<u> </u>	<u> </u>	<u> </u>	ļ	<u> </u>	ļ			<u> </u> !
	CEU# 13 - CORE @ 24"	6	1			14	4		11	1			ļ	ļ		<u> </u>	ļ	ļ			
9	CELL#14 - comp.	<u> </u>	1		1	1_	1		9:45	1		ļ,	4	ļ	ļ	ļ	 	ļ		<u></u>	ļ!
DI FASE NOTE: Limbility an	CELL*14 - CREB 2 4" and Darmagos, Cardinal's liability and client's exclusive remody for an	6	لكا	no whether based in coolear	et or to:	- shall)	ha limited	to the amount naid	1 by the client for		~	V		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u></u>		<u></u>	
analyses, All claims includir	no parregues, camerure activity and controlled extensive remote for any titler cause whatsoever shall be our artificial be liable for incidental or consequental damages, including	deemed	d walvo	ed unless made in writing an	nd recol	olved by	Cardinal w	vithin 30 days after	r completion of th	na applicat	lo										
	ng out of or related to the performance of services hereunder by C	ardinal.	. regard							io.	□ Ye		No	! Add'!	Phone	<i>*</i> ••					
	4-20-09	Lec	SUL	eu by.					Fax Resul	t:	☐ Ye		No		Fax #:						
Den &	7: 14-20-09 Time: 12:10								REMARKS	S :											
Relinquished By	y: Date:	Re	çeiv	ved-By:	*********	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			ĺ												
	Time:		1	11. 110	11	1/\	0	•													
Delivered By:	: (Circle One)	- -	4	Sample Condit	tion	+ 0	CHECK	(ED BY:													•
Sampler - UPS	- Bus - Other:		1	Cool Intagt	38 36	1	(Init														

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



JAL, NM 88252

Receiving Date: 04/21/09 Reporting Date: 04/23/09

Project Number: NOT GIVEN

Project Name: LANDFARM-CELLS #2 & #15

Project Location: LANDFARM

LAB NUMBER SAMPLE ID

Relative Percent Difference

Sampling Date: 04/21/09

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AB

Analyzed By: CK

GRO

DRO

 $(C_6 - C_{10})$

(>C₁₀-C₂₈)

(mg/kg)

111

04/23/09

(ma/ka)

103

12.7

ANALYSIS [DATE	04/23/09	04/23/09
H17287-1	CELL #2 CORE @ 24"	<10.0	<10.0
H17287-2	CELL #2 NORTH-COMP.	<10.0	696
H17287-3	CELL #2 SOUTH-COMP.	<10.0	1,080
H17287-4	CELL #15, CORE @ 24"	<10.0	<10.0
H17287-5	CELL #15, -COMP.	<10.0	179
Quality Cont	rol	553	517
True Value (C	500	500

METHODS: TPH GRO & DRO: EPA SW-846 8015 M

% Recovery



Receiving Date: 04/21/09 Reporting Date: 04/24/09

Project Number: NOT GIVEN

Project Name: LANDFARM-CELLS #2 & #15

Project Location: LAND FARM

Sampling Date: 04/21/09 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AB

Analyzed By: ZL

			ETHYL	TOTAL
	BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBI SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE	04/23/09	04/23/09	04/23/09	04/23/09
H17287-1 CELL#2 CORE @ 24"	<0.050	<0.050	<0.050	<0.300
H17287-4 CELL # 15, CORE @ 24"	<0.050	<0.050	<0.050	<0.300
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Quality Control	0.053	0.051	0.055	0.171
True Value QC	0.050	0.050	0.050	0.150
% Recovery	106	102	110	114
Relative Percent Difference	3.6	4.0	2.6	4.3

METHOD: EPA SW-846 8021B

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES.

Chemist

Date



Receiving Date: 04/21/09
Reporting Date: 04/23/09
Project Number: NOT CIVE

Project Number: NOT GIVEN

Project Name: LANDFARM-CELLS #2 & #15

Project Location: LANDFARM

Sampling Date: 04/21/09 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AB

Analyzed By: TR

LAB NUMBER SAMPLE ID

CI* (mg/kg)

ANALYSIS [DATE	04/22/09
H17287-1	CELL #2 CORE @ 24"	<16
H17287-4	CELL #15, CORE @ 24"	16
Quality Cont	rol	500
True Value (QC	500
% Recovery		100
Relative Per	cent Difference	<0.1

METHODS: CIT Std. Methods 4500-CITB

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

Chemist

Date

04/23/19



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name	54.6.5.	(000) 000 24		10-	.0/ 0			Ť	. 10.			L TO	***************************************								QUE				
Project Manage	" TONY SAVOIR	<u> </u>				~*************************************		F	.O. #								Ī	T]	Γ					
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City:	2 4	State: Ny.	Zip:		88	23	7.2		ttn:																
Phone #: ょってっ	5-395-2116 F	ax #:	-						ddre	ess:															
Project #:		roject Owner:							ity:																
Project Name:	LAND FARM-			2 0	L /	5			tate:	:		Zip:		Ş											
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Sampler Name:	Don Land FARM	en					***************************************	F	ax#	:				2											
FOR LAB USE ONLY	·					MA	TRIX		PR	RESE	RV.	SAMPLI	νG	00											
			P P		œ	l			į					w	7	-									
			ğ	ERS	GROUNDWATER	Į.			1						K,	١.									· [
Lab I.D.	Sample I.D	•	g	AIN	3	X .		w .	ASE	뎡			٠.	18	K		\								
			(G)RAB OR	ŏ	o i	2 =		SLUDGE	ACID/BASE:	ICE / COOL	OTHER			K	0	0	1								
				#	9	SOS	ē	ਲ	5 ₹	<u> <u>ö</u></u>	ō	DATE	TIME	 		<u> </u>	 		 	 					
H17287-1	CELL#2 CORE CELL#2 NORTH- CELL#2 SOUTS CELL#15; COREGO CELL#15; COMEGO	@24"	6000	7		1	1_		_ _	1-		4-21-09				1	-		ļ	ļ	ļ				ļI
-7	CELL" 2 NORTH -	- COMP.	의	4		10	_	\vdash	-	1	4	11	9:10	1	<u> </u>	 	-		-	ļ	<u> </u>	ļ			
-5	CFU"2 50473	- comp.	듸	<u>/</u>	-	V	/		-	1	4	1/	9:10		ر— <u>-</u>	 	 	_	 -	ļ					
	CRU" 15; COREGO	124	6	4	\dashv	+		\vdash	-	V	4	"	9:45	-		ļ	 			ļ	 -	 			
	CRAL 15-COMP	?	2	-		+	-	-	-	+-			9:55	-		ļ		-	 	 		ļ			
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	nd Damages. Cardinal's liability and client's ng triose for negligence end any other caus														bla							· !·······	 	·	J
service, in no event shall C	ardinal be liable for incidental or consequering out of or related to the performance of s	stal damages, including	without	l limita	ion, bus	ni esoni:	terrupti	ions, tos	s of use,	, or los	s of pri	offts incurred by o	liont, Its subaidiar	les,				•							
Relinquished B	y:	Date:	Red	çeiv	ed B	γ:	_						Phone Re Fax Resul		□ Ye		No No		Phone Fax #:						
0	Green	Time:		5	-(1 '	1 3	` ,					REMARKS			<u> </u>	<u> </u>	IAuui	rax m.	·		····			
Relinquished B	y: 11	4-2/-09 Time: /4:/8 Date:	Re	teiv	red E	By:	4		-}			······					•								
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Delivered By	: (Circle One)			· 	e.	amair		nditio	<u></u>	CU	ECV	ED BY:													
1					С	ool	Inta	ct	" 📐		(luit														
Sampler - UPS	- Bus - Other:					Ye N	s o	Yes No		V	7	<u> </u>													

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Analytical Report 356111

for

Southern Union Gas Services- Monahans

Project Manager: Rose Slade

Southern Union Landfarm
Southern Union Gas

23-DEC-09



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), 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 (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)
Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),
South Carolina(96031001), Louisiana(04154), Georgia(917)



23-DEC-09

Project Manager: Rose Slade

Southern Union Gas Services- Monahans

1507 W. 15th Street Monahans, TX 79756

Reference: XENCO Report No: 356111

Southern Union Landfarm Project Address: Lea County, NM

Rose Slade:

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 356111. 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. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. 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. 356111 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,

Brent Barron, II

Odessa Laboratory Manager

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

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



Sample Cross Reference 356111



Southern Union Gas Services- Monahans, Monahans, TX

Southern Union Landfarm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TZ Cell 14 G1	S	Dec-15-09 09:00	•	356111-001
TZ Cell 1 G1 ·	S	Dec-15-09 09:10		356111-002
TZ Cell 1 G2	S	Dec-15-09 09:20		356111-003
TZ Cell 1 G3	S	Dec-15-09 09:30	•	356111-004
TZ Cell 1 G4	S	Dec-15-09 09:40	•	356111-005
TZ Cell 1 G5	S	Dec-15-09 09:50		356111-006
TZ Cell 2 G1	S	Dec-15-09 10:00		3561,11-007
TZ Cell 2 G2	S	Dec-15-09 10:10		356111-008
TZ Cell 2 G3	S	Dec-15-09 10:20		356111-009
TZ Cell 2 G4	S	Dec-15-09 10:30		356111-010
TZ Cell 3 G1	S	Dec-15-09 10:40		356111-011
TZ Cell 3 G2	S	Dec-15-09 10:50		356111-012
TZ Cell 3 G3	S	Dec-15-09 11:00		356111-013
TZ Cell 3 G4	S	Dec-15-09 11:10		356111-014
TZ Cell 3 G5	S	Dec-15-09 11:20		356111-015
TZ Cell 4 G1	S	Dec-15-09 11:30	•	356111-016
TZ Cell 4 G2	S	Dec-15-09 11:40		356111-017
TZ Cell 4 G3	S	Dec-15-09 11:50		356111-018
TZ Cell 4 G4	S	Dec-15-09 12:00		356111-019
TZ Cell 4 G5	S	Dec-15-09 12:10	•	356111-020
TZ Cell 8 G1	S	Dec-15-09 12:20		356111-021
TZ Cell 8 G2	S	Dec-15-09 12:30		356111-022
TZ Cell 7 G1	S	Dec-15-09 12:40		356111-023
TZ Cell 5 G1	S .	Dec-15-09 12:50		356111-024
TZ Cell 6 G1	S	Dec-15-09 13:00		356111-025
TZ Cell 6 G2	S	Dec-15-09 13:10		356111-026
TZ Cell 9 G1	S	Dec-15-09 13:20		356111-027
TZ Cell 9 G2	S	Dec-15-09 13:30		356111-028
TZ Cell 9 G3	S	Dec-15-09 13:40		356111-029
TZ Cell 9 G4	S	Dec-15-09 13:50		356111-030
TZ Cell 9 G5	S	Dec-15-09 14:00		356111-031
TZ Cell 10 G1	S	Dec-15-09 14:10		356111-032
TZ Cell 10 G2	S	Dec-15-09 14:20		356111-033
TZ Cell 10 G3	S	Dec-15-09 14:30		356111-034
TZ Cell 10 G4	S	Dec-15-09 14:40		356111-035
TZ Cell 15 G1	S	Dec-15-09 14:50		356111-036
TZ Cell 11 G1	S	Dec-15-09 15:00		356111-037
TZ Cell 11 G2	S	Dec-15-09 15:10		356111-038
TZ Cell 12 G1	S	Dec-15-09 15:20		356111-039
TZ Cell 13 G1	S	Dec-15-09 15:30		356111-040

CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans

Project Name: Southern Union Landfarm

Project ID:

Southern Union Gas

Work Order Number: 356111

Report Date: 23-DEC-09

Date Received: 12/17/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-786471 Percent Moisture

None

Batch: LBA-786476 Percent Moisture

None

Batch: LBA-786509 Inorganic Anions by EPA 300

None

Batch: LBA-786511 Anions by E300

None

Batch: LBA-786560 Anions by E300

None

Batch: LBA-786685 TPH By SW8015 Mod

SW8015MOD NM

Batch 786685, C12-C28 Diesel Range Hydrocarbons recovered below QC limits in the Matrix

Spike Duplicate.

Samples affected are: 356111-009, -010, -016, -020, -002, -017, -019, -012, -015, -003, -006, -

014, -001, -005, -008, -007, -011, -018, -004, -013.

The Laboratory Control Sample for C12-C28 Diesel Range Hydrocarbons is within laboratory

Control Limits

CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans

Project Name: Southern Union Landfarm

Project ID:

Southern Union Gas

Work Order Number: 356111

Report Date: 23-DEC-09

Date Received: 12/17/2009

Batch: LBA-787011 TPH By SW8015 Mod

SW8015MOD_NM

Batch 787011, C12-C28 Diesel Range Hydrocarbons recovered below QC limits in the Matrix

Spike Duplicate.

Samples affected are: 356111-036, -040, -033, -021, -024, -030, -034, -023, -028, -032, -035, -

038, -029, -037, -039, -022, -027, -031, -025, -026.

The Laboratory Control Sample for C12-C28 Diesel Range Hydrocarbons is within laboratory

Control Limits

SW8015MOD NM

Batch 787011, o-Terphenyl recovered above QC limits . Matrix interferences is suspected; data

not confirmed by re-analysis

Samples affected are: 356111-032,356111-026.



Southern Union Gas Services- Monahans, Monahans, TX

Project Name: Southern Union Landfarm

Contact: Rose Slade

Project Id: Southern Union Gas

Project Location: Lea County, NM

Date Received in Lab: Thu Dec-17-09 05:04 pm

Report Date: 23-DEC-09

Project Manager: Brent Barron, II

Lab Id:	356111-0	01	356111-0	002	356111-0	03	356111-0	004	356111-0	005	356111-00	06
Field Id:	TZ Cell 14	GI	TZ Cell 1	Gl	TZ Cell I	G2	TZ Cell I	G3	TZ Cell 1	G4	TZ Cell 1	G5
Depth:											ı	
Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	ŀ
Sampled:	Dec-15-09	09:00	Dec-15-09	09:10	Dec-15-09 (09:20	Dec-15-09	09:30	Dec-15-09	09:40	Dec-15-09 0	9:50
Extracted:												
Analyzed:	Dec-18-09	23:44	Dec-18-09	23:44	Dec-18-09	23:44	Dec-18-09	23:44	Dec-18-09	23:44	Dec-18-09 2	:3:44
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
1	ND	4.92	61.5	9.10	98.0	8.88	231	9.21	300	9.75	44.8	5.12
Extracted:												
Analyzed:	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09 1	.7:00
Units/RL:	%	RL	%	RL	%	RL	%	· RL	%	RL	. %	RL
	14.6	1.00	7.67	1.00	5.36	1.00	8.76	1.00	13.9	1.00	18.0	1,00
Extracted:	Dec-18-09	15:45	Dec-18-09	15:45	Dec-18-09	15:45	Dec-18-09	15:45	Dec-18-09	15:45	Dec-18-09 1	5:45
Analyzed:	Dec-21-09	12:54	Dec-21-09	13:21	Dec-21-09	13:48	Dec-21-09	14:15	Dec-21-09	14:41	Dec-21-09 1	5:08
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
	ND	17.6	ND	16.2	ND	15.8	ND	16.4	53.7	17.4	ND	18.3
	61.5	17.6	670	16.2	582	15.8	1060	16.4	1230	17.4	189	18.3
	ND	17.6	81.0	16.2	74.0	15.8	134	16.4	113	17.4	21.5	18.3
	61.5	17.6	. 751	16.2	656	15.8	1194	16.4	1397	17.4	211	18.3
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Analyzed: Analyzed:	Field Id: Depth: Matrix: SOIL Sampled: Dec-15-09 (Extracted: Analyzed: Units/RL: mg/kg ND Extracted: Analyzed: Dec-18-09 Units/RL: % 14.6 Extracted: Analyzed: Dec-18-09 Units/RL: mg/kg ND 61.5 ND	Field Id: TZ Cell 14 G1 Depth: Matrix: SOIL Sampled: Dec-15-09 09:00 Extracted: Analyzed: Dec-18-09 23:44 Units/RL: mg/kg RL ND 4.92 Extracted: Analyzed: Dec-18-09 17:00 Units/RL: % RL Analyzed: Dec-18-09 15:45 Dec-18-09 12:54 Analyzed: Dec-21-09 12:54 Units/RL: mg/kg RL ND 17.6 61.5 17.6 ND 17.6	Field Id: TZ Cell 14 G1 TZ Cell 1 Depth: Matrix: SOIL SOIL Sampled: Dec-15-09 09:00 Dec-15-09 09:00 Extracted: Analyzed: Dec-18-09 23:44 Dec-18-09 18-09 09:00 Units/RL: mg/kg RL mg/kg Extracted: Analyzed: Dec-18-09 17:00 Dec-18-09 17:00 Units/RL: % RL % Extracted: Dec-18-09 15:45 Dec-18-09 15:45 Dec-18-09 15:45 Analyzed: Dec-21-09 12:54 Dec-21-09 12:54 Dec-21-09 12:54 Units/RL: mg/kg RL mg/kg ND 17.6 ND 61.5 17.6 670 ND 17.6 81.0	Field Id: TZ Cell 14 G1 TZ Cell 1 G1 Depth: Matrix: SOIL SOIL Sampled: Dec-15-09 09:00 Dec-15-09 09:10 Extracted: Analyzed: Dec-18-09 23:44 Dec-18-09 23:44 Units/RL: mg/kg RL mg/kg RL Analyzed: Dec-18-09 17:00 Dec-18-09 17:00 Dec-18-09 17:00 Units/RL: % RL % RL Analyzed: Dec-18-09 15:45 Dec-18-09 15:45 Dec-18-09 15:45 Analyzed: Dec-21-09 12:54 Dec-21-09 13:21 mg/kg RL Units/RL: mg/kg RL mg/kg RL ND 17.6 ND 16.2 ND 17.6 81.0 16.2	Field Id: TZ Cell 14 G1 TZ Cell 1 G1 TZ Cell 1 Depth: Matrix: SOIL SOIL	Field Id: TZ Cell 14 G1 TZ Cell 1 G1 TZ Cell 1 G2 Depth: Matrix: SOIL SOIL SOIL Sampled: Dec-15-09 09:00 Dec-15-09 09:10 Dec-15-09 09:20 Extracted: Analyzed: Dec-18-09 23:44 Dec-18-09 23:44 Dec-18-09 23:44 Units/RL: mg/kg RL mg/kg RL mg/kg RL Extracted: Analyzed: Dec-18-09 17:00 Dec-18-09 17:00 </td <td>Field Id: TZ Cell 14 G1 TZ Cell 1 G1 TZ Cell 1 G2 Dec 15-09 TZ Cell 1 G2 Dec-18-09 TE Cell 1 G2 Dec-18-09 Dec-18-09 Dec-18-09 23:44 Dec-18-09 23:44 Dec-18-09 17:00 D</td> <td>Field Id: TZ Cell 1 G1 TZ Cell 1 G2 TZ Cell 1 G3 Depth: SOIL <th< td=""><td>Field Id: Depth: TZ Cell 14 G1 TZ Cell 1 G1 TZ Cell 1 G2 TZ Cell 1 G3 TE Table 1 Ga TE Tab</td><td>Field Id: TZ Cell 1 d G1 TZ Cell 1 G2 TZ Cell 1 G3 TZ Cell 1 G4 Depth: Matrix: SOIL S</td><td>Field Id: TZ Cell 1 d G1 TZ Cell 1 G2 TZ Cell 1 G3 TZ Cell 1 G4 TZ Cell 1 G4<</td></th<></td>	Field Id: TZ Cell 14 G1 TZ Cell 1 G1 TZ Cell 1 G2 Dec 15-09 TZ Cell 1 G2 Dec-18-09 TE Cell 1 G2 Dec-18-09 Dec-18-09 Dec-18-09 23:44 Dec-18-09 23:44 Dec-18-09 17:00 D	Field Id: TZ Cell 1 G1 TZ Cell 1 G2 TZ Cell 1 G3 Depth: SOIL SOIL <th< td=""><td>Field Id: Depth: TZ Cell 14 G1 TZ Cell 1 G1 TZ Cell 1 G2 TZ Cell 1 G3 TE Table 1 Ga TE Tab</td><td>Field Id: TZ Cell 1 d G1 TZ Cell 1 G2 TZ Cell 1 G3 TZ Cell 1 G4 Depth: Matrix: SOIL S</td><td>Field Id: TZ Cell 1 d G1 TZ Cell 1 G2 TZ Cell 1 G3 TZ Cell 1 G4 TZ Cell 1 G4<</td></th<>	Field Id: Depth: TZ Cell 14 G1 TZ Cell 1 G1 TZ Cell 1 G2 TZ Cell 1 G3 TE Table 1 Ga TE Tab	Field Id: TZ Cell 1 d G1 TZ Cell 1 G2 TZ Cell 1 G3 TZ Cell 1 G4 Depth: Matrix: SOIL S	Field Id: TZ Cell 1 d G1 TZ Cell 1 G2 TZ Cell 1 G3 TZ Cell 1 G4 TZ Cell 1 G4<

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Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

Brent Barron, II Odessa Laboratory Manager



Southern Union Gas Services- Monahans, Monahans, TX

Project Name: Southern Union Landfarm

Contact: Rose Slade

Project Id: Southern Union Gas

Project Location: Lea County, NM

Date Received in Lab: Thu Dec-17-09 05:04 pm

Report Date: 23-DEC-09

Project Manager: Brent Barron, II

							, 5, 500 1, 1		,			
Lab Id:	356111-0	07	356111-0	08	356111-0	009	356111-0	10	356111-0	11	356111-01	12
Field Id:	TZ Cell 2	GI	TZ Cell 2	G2	TZ Cell 2	G3	TZ Cell 2	G4	TZ Cell 3	Gl	TZ Cell 3	G2
Depth:							·				I	
Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
Sampled:	Dec-15-09	10:00	Dec-15-09	10:10	Dec-15-09	10:20	Dec-15-09	10:30	Dec-15-09	10:40	Dec-15-09 1	0:50
Extracted:	-							-				
Analyzed:	Dec-18-09	23:44	Dec-18-09 2	23:44	Dec-18-09	23:44	Dec-18-09	23:44	Dec-18-09	23:44	Dec-18-09 2	3:44
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
	7.83	5.25	161	8.97	144	10.6	45.6	10.7	16.2	8.60	26.3	9.44
Extracted:						·	•					
Analyzed:	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	7:00	Dec-18-09	17:00	Dec-18-09 1	7:00
Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
	20.0	1.00	6.34	1.00	20.5	1.00	21.6	1.00	2.32	1.00	. 11.0	1.00
Extracted:	Dec-18-09	15:45	Dec-18-09	15:45	Dec-18-09	15:45	Dec-18-09	15:45	Dec-18-09	15:45	Dec-18-09 1	5:45
Analyzed:	Dec-21-09	15:35	Dec-21-09	16:03	Dec-21-09	16:30	Dec-21-09	6:57	Dec-21-09	17:51	Dec-21-09 1	8:18
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
	ND	18.8	ND	16.0	ND	18.9	ND	19.1	ND	307	ND	16.8
	65.2	18.8	307	16.0	140	18.9	136	19.1	3860	307	630	16.8
	ND	18.8	50.4	16.0	19.6	18.9	21.8	19.1	538	307	67.5	16.8
	65.2	18.8	357	16.0	160	18.9	158	19.1	4398	307	698	16.8
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Analyzed: Analyzed: Analyzed:	TZ Cell 2 Depth: Matrix: SOIL Sampled: Dec-15-09	Field Id: TZ Ccll 2 Gl Depth: Matrix: SOIL Sampled: Dec-15-09 10:00 Extracted: Analyzed: Dec-18-09 23:44 Units/RL: mg/kg RL 7.83 5.25 Extracted: Analyzed: Dec-18-09 17:00 Units/RL: % RL 20.0 1.00 Extracted: Dec-18-09 15:45 Analyzed: Dec-21-09 15:35 Units/RL: mg/kg RL ND 18.8 65.2 18.8 ND 18.8	Field Id: TZ Cell 2 G1 TZ Cell 2 Depth: Matrix: SOIL SOIL Sampled: Dec-15-09 10:00 Dec-15-09 1 Extracted: Analyzed: Dec-18-09 23:44 Dec-18-09 2 Units/RL: mg/kg RL mg/kg Extracted: Analyzed: Dec-18-09 17:00 Dec-18-09 1 Units/RL: % RL % Extracted: Dec-18-09 15:45 Dec-18-09 1 Analyzed: Dec-21-09 15:35 Dec-21-09 1 Units/RL: mg/kg RL mg/kg ND 18.8 ND 65.2 18.8 307 ND 18.8 50.4	Field Id: TZ Cell 2 G1 TZ Cell 2 G2 Depth: Matrix: SOIL SOIL Sampled: Dec-15-09 10:00 Dec-15-09 10:10 Extracted: Analyzed: Dec-18-09 23:44 Dec-18-09 23:44 Units/RL: mg/kg RL mg/kg RL Extracted: Analyzed: Dec-18-09 17:00 Dec-18-09 17:00 Dec-18-09 17:00 Units/RL: % RL % RL Analyzed: Dec-18-09 15:45 Dec-18-09 15:45 Dec-18-09 15:45 Analyzed: Dec-21-09 15:35 Dec-21-09 16:03 mg/kg RL ND 18.8 ND 16.0 65.2 18.8 307 16.0 ND 18.8 50.4 16.0	Field Id: TZ Cell 2 G1 TZ Cell 2 G2 SOIL SOIL	Field Id: TZ Cell 2 G1 TZ Cell 2 G2 TZ Cell 2 G3 Depth: Matrix: SOIL SOIL	Lab Id: 356111-007 356111-008 356111-009 356111-0 Field Id: TZ Cell 2 G1 TZ Cell 2 G2 TZ Cell 2 G3 TZ Cell 2 G3 Depth: Matrix: SOIL SOIL SOIL SOIL SOIL Sampled: Dec-15-09 10:00 Dec-15-09 10:10 Dec-15-09 10:20 Dec-18-09 23:44 Dec-18-09 17:00 Dec-18-09 17:00 Dec-18-09 17:00 Dec-18-09 17:00 Dec-18-09 17:00 Dec-18-09 17:00 Dec-18-09 17:0	Lab Id: 356111-007 356111-008 356111-009 356111-010 Field Id: TZ Cell 2 G1 TZ Cell 2 G2 TZ Cell 2 G3 TZ Cell 2 G4 Depth: Matrix: SOIL S	Lab Id: 356111-007 356111-008 356111-009 356111-010 356111-010 366111-010 356111-010	Field Id: TZ Cell 2 G1 TZ Cell 2 G2 TZ Cell 2 G3 TZ Cell 2 G4 TZ Cell 3 G1 Matrix: SOIL <	Lab Id: 356111-007 356111-008 356111-009 356111-010 356111-011 35611

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Brent Barron, II Odessa Laboratory Manager



Southern Union Gas Services- Monahans, Monahans, TX

Project Name: Southern Union Landfarm

Contact: Rose Slade

Project Id: Southern Union Gas

Project Location: Lea County, NM

Date Received in Lab: Thu Dec-17-09 05:04 pm

Report Date: 23-DEC-09

Project Manager: Brent Barron, II

	7									Brenn Burren,			
	Lab Id:	356111-0	13	356111-0	14	356111-0	15	356111-0	16	356111-0	17	356111-01	18
Analysis Paguastad	Field Id:	TZ Cell 3	G3	TZ Cell 3	G4	TZ Cell 3	G5	TZ Cell 4	G1	TZ Cell 4	G2	TZ Cell 4 (G3
Analysis Requested	Depth:			•									
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-15-09	11:00	Dec-15-09	1:10	Dec-15-09	11:20	Dec-15-09 1	1:30	Dec-15-09	1:40	Dec-15-09 1	1:50
Anions by E300	Extracted:												
	Analyzed:	Dec-18-09	23:44	Dec-18-09	23:44	Dec-19-09 (05:01	Dec-19-09 (05:01	Dec-19-09 (5:01	Dec-19-09 0	5:01
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		26.6	4.54	15.8	4.58	17.8	4.73	18.0	5.08	39.7	4.49	9.49	5.48
Percent Moisture	Extracted:												
	Analyzed:	Dec-18-09	17:00	Dec-18-09	7:00	Dec-18-09	17:00	Dec-18-09 1	7:00	Dec-18-09	7:00	Dec-18-09 1	7:00
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		7.39	1.00	8.39	1.00	11.3	1.00	17.3	1.00	6.39	1.00	23.3	1.00
TPH By SW8015 Mod	Extracted:	Dec-18-09	15:45	Dec-18-09	5:45	Dec-18-09	15:45	Dec-18-09 1	5:45	Dec-18-09	5:45	Dec-18-09 1	5:45
·	Analyzed:	Dec-21-09	18:46	Dec-21-09	19:13	Dec-21-09	19:40	Dec-21-09 2	20:08	Dec-21-09	20:35	Dec-21-09 2	1:03
·	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	80.9	ND	81.9	ND	16.8	ND	18.1	ND	80.1	ND	19.6
C12-C28 Diesel Range Hydrocarbons		· 2930	80.9	2120	81.9	489	16.8	428	18.1	3320	80.1	436	19.6
C28-C35 Oil Range Hydrocarbons		365	80.9	247	81.9	47.4	16.8	32.2	18.1	339	80.1	31.4	19.6
Total TPH		3295	80.9	2367	81:9	536	16.8	460	18.1	3659	80.1	467	19.6

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Brent Barron, II Odessa Laboratory Manager



Southern Union Gas Services- Monahans, Monahans, TX

Project Name: Southern Union Landfarm

Project Id: Southern Union Gas

Contact: Rose Slade

Project Location: Lea County, NM

Date Received in Lab: Thu Dec-17-09 05:04 pm

Report Date: 23-DEC-09

Project Manager: Brent Barron, II

								110ject 17141					
	Lab Id:	356111-	019	356111-0	20	356111-0	21	356111-0	22	356111-0	023	356111-02	24
Analysis Danuastad	Field Id:	TZ Cell 4	- G4	TZ Cell 4	G5	TZ Cell 8	G1	TZ Cell 8	G2	TZ Cell 7	G1	TZ Cell 5	GI
Analysis Requested	Depth:											_	
•	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
·	Sampled:	Dec-15-09	12:00	Dec-15-09	12:10	Dec-15-09 1	12:20	Dec-15-09 1	12:30	Dec-15-09	12:40	Dec-15-09 1	2:50
Anions by E300	Extracted:												
	Analyzed:	Dec-19-09	05:01	Dec-19-09	05:01	Dec-19-09 (05:01	Dec-19-09 (05:01	Dec-19-09 (05:01	Dec-19-09 0	5:01
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		16.1	5.13	31.0	4.55	2050	122	ND	10.4	17.1	5.17	ND	4.28
Percent Moisture	Extracted:												
	Analyzed:	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09 1	17:00	Dec-18-09	17:00	Dec-18-09 1	7:00
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		18.1	1.00	7.70	1.00	15.7	1.00	19.3	1.00	18.8	1.00	1.82	1.00
TPH By SW8015 Mod	Extracted:	Dec-18-09	15:45	Dec-18-09	15:45	Dec-21-09	13:00	Dec-21-09 1	13:00	Dec-21-09	13:00	Dec-21-09 1	3:00
	Analyzed:	Dec-21-09	21:30	Dec-21-09	21:58	Dec-23-09 (01:12	Dec-23-09 (1:39	Dec-23-09 (02:06	Dec-23-09 0	2:33
•	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	18.3	ND	16.3	ND	218	ND	18.6	ND	18.5	ND	15.3
C12-C28 Diesel Range Hydrocarbons	-	302	18.3	985	16.3	3910	218	95.0	18.6	267	18.5	82.2	15.3
C28-C35 Oil Range Hydrocarbons		22.4	18.3	87.8	16.3	405	218	ND	18.6	30.9	18.5	51.9	15.3
Total TPH		324	18.3	1073	16.3	4315	218	95.0	18.6	298	18.5	134.1	15.3

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Brent Barron, II Odessa Laboratory Manager



Project Location: Lea County, NM

Certificate of Analysis Summary 356111

Southern Union Gas Services- Monahans, Monahans, TX

Project Name: Southern Union Landfarm

Project Id: Southern Union Gas

Contact: Rose Slade

Date Received in Lab: Thu Dec-17-09 05:04 pm

Report Date: 23-DEC-09

Project Manager: Brent Barron, II

								Project Mai	nager:	Brent Barron,	11		
	Lab Id:	356111-0)25	356111-0	26	356111-0	27	356111-0	28	356111-0	29	356111-03	30
Analysis Bannastad	Field Id:	TZ Cell 6	Gl	TZ Cell 6	G2	TZ Cell 9	GI	TZ Cell 9	G2	TZ Cell 9	G3	TZ Cell 9	G4
Analysis Requested	Depth:											ı	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-15-09	13:00	Dec-15-09	13:10	Dec-15-09	13:20	Dec-15-09	3:30	Dec-15-09	13:40	Dec-15-09 1	13:50
Anions by E300	Extracted:	•											
	Analyzed:	Dec-19-09	05:01	Dec-19-09	05:01	Dec-19-09 (05:01	Dec-19-09 (5:01	Dec-19-09 (05:01	Dec-19-09 0)5:01
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		ND	20.6	36.5	10.4	156	9.90	152	9.08	58.6	9.51	43.5	9.10
Percent Moisture	Extracted:												
	Analyzed:	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	7:00	Dec-18-09 1	17:00	Dec-18-09 1	17:00
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		18.4	1.00	18.9	1.00	15.2	1.00	7.47	1.00	11.7	1,00	7.72	1.00
TPH By SW8015 Mod	Extracted:	Dec-21-09	13:00	Dec-21-09	13:00	Dec-21-09	13:00	Dec-21-09	3:00	Dec-21-09	13:00	Dec-21-09 1	13:00
	Analyzed:	Dec-23-09	03:00	Dec-23-09	03:27	Dec-23-09 (03:54	Dec-23-09 ()4:21	Dec-23-09 (04:48	Dec-23-09 0)5:15
	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	18.4	ND	18.5	ND	17.7	ND	16.2	ND	17.0	ND	16
C12-C28 Diesel Range Hydrocarbons		98.7	18.4	177	18.5	71.9	17.7	194	16.2	86.9	17.0	210	16.3
C28-C35 Oil Range Hydrocarbons		18.7	18.4	30.0	18.5	18.0	17.7	71.7	16.2	28.8	17.0	58.2	16.3
Total TPH		117.4	18.4	207	18.5	89.9	17.7	266	16.2	115.7	17.0	268	16.3

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Brent Barron, II Odessa Laboratory Manager



Southern Union Gas Services- Monahans, Monahans, TX

Project Name: Southern Union Landfarm

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Project Id: Southern Union Gas

Project Location: Lea County, NM

Date Received in Lab: Thu Dec-17-09 05:04 pm

Report Date: 23-DEC-09

Project Manager: Brent Barron, II

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Lab Id:	356111-0	31	356111-0	32	356111-0	33	356111-0	34	356111-0	35	356111-03	36
Field Id:	TZ Cell 9	G5	TZ Cell 10) G1	TZ Cell 10) G2	TZ Cell 10	G3	TZ Cell 10) G4	TZ Cell 15	G1
Depth:												
Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
Sampled:	Dec-1-5-09	4:00	Dec-15-09	14:10	Dec-15-09	14:20	Dec-15-09	4:30	Dec-15-09	14:40	Dec-15-09 1	4:50
Extracted:												
Analyzed:	Dec-19-09	05:01	Dec-19-09	05:01	Dec-19-09 (05:01	Dec-19-09 (5:01	Dec-21-09	10:06	Dec-21-09 1	0:06
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
	81.6	8.63	9.63	4.97	11.9	4.53	9.06	4.77	10.0	5.29	ND	46.9
Extracted:	·		<u> </u>									
Analyzed:	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	7:00	Dec-18-09	17:00	Dec-18-09 1	7:00
Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
	2.70	1.00	15.6	1.00	7.23	1.00	11.9	1.00	20.6	1.00	10.4	1.00
Extracted:	Dec-21-09	13:00	Dec-21-09	13:00	Dec-21-09	13:00	Dec-21-09	3:00	Dec-21-09	13:00	Dec-21-09 1	3:00
Analyzed:	Dec-23-09	06:09	Dec-23-09	06:36	Dec-23-09 (07:03	Dec-23-09 (7:30	Dec-23-09 (07:57	Dec-23-09 0	8:24
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	. mg/kg	RL	mg/kg	RL
	ND	15.4	ND	17.8	ND	16.2	ND	17.0	ND	18.9	ND	16.7
	164	15.4	276	17.8	217	16.2	96.8	17.0	129	18.9	226	16.7
	63.5	15.4	50.9	17.8	52.4	16.2	24.1	17.0	19.2	18.9	95.0	16.7
	228	15.4	327	17.8	269	16.2	120.9	17.0	148	18.9	321	16.7
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Analyzed: Analyzed:	Field Id: Depth: Matrix: SOIL Sampled: Dec-15-09 Extracted: Analyzed: Dec-19-09 Whits/RL: mg/kg 81.6 Extracted: Analyzed: Dec-18-09 Units/RL: % 2.70 Extracted: Analyzed: Dec-21-09 Analyzed: Dec-23-09 Units/RL: mg/kg ND 164 63.5	Field Id: Depth: Matrix: SOIL Sampled: Dec-15-09 14:00 Extracted: Analyzed: Dec-19-09 05:01 Units/RL: mg/kg RL 81.6 8.63 Extracted: Analyzed: Dec-18-09 17:00 Units/RL: % RL 2.70 1.00 Extracted: Dec-21-09 13:00 Analyzed: Dec-23-09 06:09 Units/RL: mg/kg RL 63.5 15.4	Field Id: TZ Cell 9 G5 TZ Cell 10 Depth: Matrix: SOIL SOIL Sampled: Dec-15-09 14:00 Dec-15-09 1 Extracted: Analyzed: Dec-19-09 05:01 Dec-19-09 0 Units/RL: mg/kg RL mg/kg Extracted: Analyzed: Dec-18-09 17:00 Dec-18-09 Units/RL: % RL % Extracted: Dec-21-09 13:00 Dec-21-09 Analyzed: Dec-23-09 06:09 Dec-23-09 0 Units/RL: mg/kg RL mg/kg ND 15.4 ND 164 15.4 276 63.5 15.4 50.9	Field Id: TZ Cell 9 G5 TZ Cell 10 G1 Depth: Matrix: SOIL SOIL Sampled: Dec-15-09 14:00 Dec-15-09 14:10 Extracted: Analyzed: Dec-19-09 05:01 Dec-19-09 05:01 Units/RL: mg/kg RL mg/kg RL Extracted: Analyzed: Dec-18-09 17:00 Dec-18-09 17:00 Dec-18-09 17:00 Units/RL: % RL % RL Extracted: Dec-21-09 13:00 Dec-21-09 13:00 Dec-21-09 13:00 Analyzed: Dec-23-09 06:09 Dec-23-09 06:36 Units/RL: mg/kg RL mg/kg RL ND 15.4 ND 17.8 164 15.4 276 17.8 63.5 15.4 50.9 17.8	Field Id: TZ Cell 9 G5 TZ Cell 10 G1 TZ Cell 10 G1 Depth: Matrix: SOIL SOIL	Field Id: TZ Cell 9 G5 TZ Cell 10 G1 TZ Cell 10 G2 Depth: Matrix: SOIL SOIL SOIL SOIL Sampled: Dec-15-09 14:00 Dec-15-09 14:10 Dec-15-09 14:20 Extracted: Analyzed: Dec-19-09 05:01 Dec-19-09 05:01 Dec-19-09 05:01 Units/RL: mg/kg RL mg/kg RL mg/kg RL Extracted: Analyzed: Dec-18-09 17:00 Dec-18-09 17:00	Lab Id: 356111-031 356111-032 356111-033 356111-0 Field Id: TZ Cell 9 G5 TZ Cell 10 G1 TZ Cell 10 G2 TZ Cell 10 Depth: SOIL SOIL SOIL SOIL SOIL SOIL Sampled: Dec-15-09 14:00 Dec-15-09 14:10 Dec-15-09 14:20 Dec-15-09 1 Dec-15-09 14:20 Dec-15-09 1 Extracted: Analyzed: Dec-19-09 05:01 Dec-18-09 17:00 Dec-18-09 17:00<	Lab Id: 356111-031 356111-032 356111-033 356111-034 Field Id: TZ Cell 9 G5 TZ Cell 10 G1 TZ Cell 10 G2 TZ Cell 10 G3 Depth: Matrix: SOIL SOIL <t< th=""><th>Lab Id: 356111-031 356111-032 356111-033 356111-034 356111-03</th><th>Field Id: TZ Cell 9 G5 TZ Cell 10 G1 TZ Cell 10 G2 TZ Cell 10 G3 TZ Cell 10 G4 Depth: Matrix: SOIL SOIL</th><th>Lab Id: Field Id: Field Id: Paperhic Matrix: 356111-031 356111-032 356111-032 356111-033 356111-034 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 72 Cell 10 G3 TZ Cell 10 G3 TZ Cell 10 G4 TZ Cell 15 72 Cell 15 72 Cell 10 G3 TZ Cell 10 G3 TZ Cell 10 G4 TZ Cell 15 72 Cell 15 72 Cell 10 G3 TZ Cell 10 G3 TZ Cell 10 G4 TZ Cell 15 72 Cell 15 72 Cell 10 G3 TZ Cell 10 G3 TZ Cell 10 G4 TZ Cell 15 72 Cell 15 72 Cell 10 G3 TZ Cell 10</th></t<>	Lab Id: 356111-031 356111-032 356111-033 356111-034 356111-03	Field Id: TZ Cell 9 G5 TZ Cell 10 G1 TZ Cell 10 G2 TZ Cell 10 G3 TZ Cell 10 G4 Depth: Matrix: SOIL SOIL	Lab Id: Field Id: Field Id: Paperhic Matrix: 356111-031 356111-032 356111-032 356111-033 356111-034 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 356111-035 72 Cell 10 G3 TZ Cell 10 G3 TZ Cell 10 G4 TZ Cell 15 72 Cell 15 72 Cell 10 G3 TZ Cell 10 G3 TZ Cell 10 G4 TZ Cell 15 72 Cell 15 72 Cell 10 G3 TZ Cell 10 G3 TZ Cell 10 G4 TZ Cell 15 72 Cell 15 72 Cell 10 G3 TZ Cell 10 G3 TZ Cell 10 G4 TZ Cell 15 72 Cell 15 72 Cell 10 G3 TZ Cell 10

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.

The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron, II Odessa Laboratory Manager



Southern Union Gas Services- Monahans, Monahans, TX

Project Name: Southern Union Landfarm

Contact: Rose Slade

Project Location: Lea County, NM

Project Id: Southern Union Gas

Date Received in Lab: Thu Dec-17-09 05:04 pm

Report Date: 23-DEC-09

Project Manager: Brent Barron, II

356111-038 TZ Cell 11 G2	356111-039 TZ Cell 12 G1	356111-040 TZ Cell 13 G1	
TZ Cell 11 G2	TZ Cell 12 G1	TZ Cell 13 G1	
	i		
SOIL	SOIL	SOIL	
Dec-15-09 15:10	Dec-15-09 15:20	Dec-15-09 15:30	
Dec-21-09 10:06	Dec-21-09 10:06	Dec-21-09 10:06	
mg/kg RL	mg/kg RL	mg/kg RL	
161 18.2	ND 22.6	291 9.88	
Dec-18-09 17:00	Dec-18-09 17:00	Dec-18-09 17:00	
% RL	% RL	% RL	
7.80 1.00	7.19 1.00	15.0 1.00	
Dec-21-09 13:00	Dec-21-09 13:00	Dec-21-09 13:00	·
Dec-23-09 09:21	Dec-23-09 09:48	Dec-23-09 10:16	
mg/kg RL	mg/kg RL	mg/kg RL	
27.0 16.3	ND 16.2	20.0 17.6	
488 16.3	302 16.2	597 17.6	
49.7 16.3	38.1 16.2	64.6 17.6	
565 16.3	340 16.2	682 17.6	
	Dec-21-09 10:06 mg/kg RL 161 18.2 Dec-18-09 17:00 % RL 7.80 1.00 Dec-21-09 13:00 Dec-23-09 09:21 mg/kg RL 27.0 16.3 488 16.3 49.7 16.3	Dec-21-09 10:06 Dec-21-09 10:06 mg/kg RL mg/kg RL 161 18.2 ND 22.6 Dec-18-09 17:00 Dec-18-09 17:00 % RL % RL 7.80 1.00 7.19 1.00 Dec-21-09 13:00 Dec-21-09 13:00 Dec-21-09 13:00 Dec-23-09 09:48 mg/kg RL mg/kg RL 27.0 16.3 ND 16.2 488 16.3 302 16.2 49.7 16.3 38.1 16.2	Dec-21-09 10:06 Dec-21-09 10:06 Dec-21-09 10:06 mg/kg RL mg/kg RL mg/kg RL 161 18.2 ND 22.6 291 9.88 Dec-18-09 17:00 Dec-18-09 17:00 Dec-18-09 17:00 Dec-18-09 17:00 Dec-18-09 17:00 % RL % RL % RL 7.80 1.00 7.19 1.00 15.0 1.00 Dec-21-09 13:00 Dec-21-09 13:00 Dec-21-09 13:00 Dec-23-09 10:16 Dec-23-09 09:48 Dec-23-09 10:16 mg/kg RL mg/kg RL mg/kg RL 27.0 16.3 ND 16.2 20.0 17.6 488 16.3 302 16.2 597 17.6 49.7 16.3 38.1 16.2 64.6 17.6

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Brent Barron, II Odessa Laboratory Manager



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- **BRL** Below Reporting Limit.
- **RL** Reporting Limit
- * Outside XENCO's scope of NELAC Accreditation.

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Form 2 - Surrogate Recoveries

Project Name: Southern Union Landfarm

Work Orders: 356111,

Project ID: Southern Union Gas

Lab Batch #: 786685

Sample: 546083-1-BSD / BSD

Matrix: Solid Batch:

Units: mg/kg Date Analyzed: 12/21/09 12:01	. SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	95.7	99.6	96	70-135	
o-Terphenyl	43.9	49.8	88	70-135	

Lab Batch #: 786685

Sample: 546083-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 12/21/09 12:28	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			{D}		·	
1-Chlorooctane	796	997	80	70-135		
o-Terphenyl	466	499	93	70-135	-	

Lab Batch #: 786685

Sample: 356111-001 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/21/09 12:54	ate Analyzed: 12/21/09 12:54 SURROGATE RECOVERY STUDY					
трн 1	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
	Analytes			[D]			
1-Chlorooctane		106	100	106	70-135		
o-Terphenyl		59.7	50.0	119	70-135		

Lab Batch #: 786685

Sample: 356111-002 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 13:21	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	80.8	100	81	70-135		
o-Terphenyl .	46.4	50.0	93	70-135		

Lab Batch #: 786685

Sample: 356111-003 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 13:48	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	78.1	99.5	78	70-135	
o-Terphenyl	44.6	49.8	90	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

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

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: Southern Union Landfarm

Work Orders: 356111,

Project ID: Southern Union Gas

Lab Batch #: 786685

Sample: 356111-004 / SMP

Matrix: Soil Batch:

Units: mg/kg	Date Analyzed: 12/21/09 14:15	SU	RROGATE R	ECOVERY	STUDY	
ТРН В	y SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		76.0	100	76	70-135	
o-Terphenyl		43.5	50.0	87	70-135	

Lab Batch #: 786685

Sample: 356111-005 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/21/09 14:41	SURROGATE RECOVERY STUDY					
	By SW8015 Mod	Amount . Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
	Analytes	1		[D]	l		
I-Chlorooctanc		82.0	100	82	70-135		
o-Terphenyl		47.1	50.0	94	70-135		

Lab Batch #: 786685

Sample: 356111-006 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 15:08 SURROGATE RECOVERY STUDY						
ТРН В	y SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
A	Analytes			[D]		
1-Chlorooctane		76.8	. 100	77	70-135	
o-Terphenyl		45.0	50.0	90	70-135	

Lab Batch #: 786685

Sample: 356111-007 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/21/09 15:35	SURROGATE RECOVERY STUDY				
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		76.4	100	76	70-135	
o-Terphenyl		44.8	50.0	90	70-135	

Lab Batch #: 786685

. Sample: 356111-008 / SMP

Batch:

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/21/09 16:03	SURROGATE RECOVERY STUDY					
ТРН Е	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
I-Chlorooctane		77.1	100	77	70-135		
o-Terphenyl		44.3	50.0	89	70-135		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

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

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: Southern Union Landfarm

Work Orders: 356111,

Lab Batch #: 786685

Sample: 356111-009 / SMP

Project ID: Southern Union Gas

Matrix: Soil Batch:

Units: mg/kg Date Analyzed: 12/21/09 16:30	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes			(2)		
1-Chlorooctane	82.0	100	82	70-135	
o-Terphenyl	47.3	50.0	95	70-135	

Lab Batch #: 786685

Sample: 356111-010 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 16:57 SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	105	100	105	70-135	
o-Terphenyl	62.8	50.0	126	70-135	

Lab Batch #: 786685

Sample: 356111-011/SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 17:51	/kg Date Analyzed: 12/21/09 17:51 SURROGATE RECOVERY STUD				
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	82.0	100	82	70-135	
o-Terphenyl	49.0	50.0	98	70-135	

Lab Batch #: 786685

Sample: 356111-012 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 18:18	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount {B}	Recovery %R [D]	Control Limits %R	Flags	
						1-Chlorooctane
o-Terphenyl	44.4	50.0	89	70-135		

Lab Batch #: 786685

Sample: 356111-013 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 18:46	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctanc	92.3	99.9	92	70-135		
o-Terphenyl	56.4	50.0	113	70-135		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders: 356111,

Sample: 356111-014 / SMP

Project ID: Southern Union Gas

Lab Batch #: 786685

Batch: Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 1	9:13 SU	SURROGATE RECOVERY STUDY						
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes		[-]	[D]					
1-Chlorooctane	90.9	100	91	70-135				
o-Terphenyl	54.5	50.0	109	70-135				

Lab Batch #: 786685

Sample: 356111-015 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg D	Units: mg/kg Date Analyzed: 12/21/09 19:40 SURROGATE RECOVERY STUDY					
TPH By SV	W8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Ana	lytes		_	[D]		
1-Chlorooctane		78.3	99.5	79	70-135	
o-Terphenyl		44.6	49.8	90	70-135	

Lab Batch #: 786685

Sample: 356111-016 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 20:08	SURROGATE RECOVERY STUDY						
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctanc	73.9	100	74	70-135			
o-Tcrphenyl	43.0	50.0	86	70-135			

Lab Batch #: 786685

Sample: 356111-017 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 20:35	SU	SURROGATE RECOVERY STUDY						
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
1-Chlorooctane	92.0	100	92	70-135				
o-Terphenyl	60.9	50.0	122	70-135				

Lab Batch #: 786685

Sample: 356111-018 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 21:03	SURROGATE RECOVERY STUDY						
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane	76.0	100	76	70-135			
o-Terphenyl	44.2	50.0	88	70-135			

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders: 356111, Lab Batch #: 786685

Sample: 356111-019 / SMP

Batch:

Project ID: Southern Union Gas

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 21:30	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes	, ,	,-,	[D]			
I-Chlorooctane	79.2	100	79	70-135		
o-Terphenyl	45.4	50.0	91	70-135		

Lab Batch #: 786685

Sample: 356111-020 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 21:58	SURROGATE RECOVERY STUDY						
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctane	74.7	100	75	70-135			
o-Terphenyl	44.6	50.0	89	70-135			

Lab Batch #: 786685

Sample: 356111-007 S / MS

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 22:25 SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
· · · · · · · · · · · · · · · · · · ·					
I-Chlorooctane	90.5	99.5	91	70-135	
o-Terphenyl	41.8	49.8	84	70-135	

Lab Batch #: 786685

Sample: 356111-007 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 22:53	SU	SURROGATE RECOVERY STUDY						
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctanc	97.5	99.9	98	70-135				
o-Terphenyl	44.1	50.0	88	70-135				

Lab Batch #: 787011

Sample: 546262-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg	Date Analyzed: 12/22/09 23:50	SURROGATE RECOVERY STUDY					
ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
	Analytes			[D]			
1-Chlorooctane		105	99.8	105	70-135		
o-Terphenyl		47.8	49.9	96	70-135		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / BAll results are based on MDL and validated for QC purposes.

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders: 356111,

Sample: 546262-1-BSD / BSD

Project ID: Southern Union Gas

Lab Batch #: 787011

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/23/09 00:17	SURROGATE RECOVERY STUDY						
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctane	101	101	100	70-135			
o-Terphenyl	46.7	50.3	93	70-135			

Lab Batch #: 787011

Sample: 546262-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 12/23/09 00:44	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	86.4	99.5	87	70-135		
o-Terphenyl	49.3	49.8	99	70-135		

Lab Batch #: 787011

Sample: 356111-021 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/23/09 01:12	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.5	100	85	70-135	
o-Terphenyl	48.4	50.0	97	70-135	

Lab Batch #: 787011

Sample: 356111-022 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/23/09 01:39 SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctanc	84.5	100	85	70-135	
o-Terphenyl	49.3	50.0	99	70-135	

Lab Batch #: 787011

Sample: 356111-023 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/23/09 02:06	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	80.0	100	80	70-135	
o-Terphenyl	46.3	50.0	93	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders: 356111,

Project ID: Southern Union Gas

Lab Batch #: 787011

Sample: 356111-024 / SMP

Matrix: Soil Batch: 1

Units: mg/kg Date Analyzed: 12/23/09 02:33 SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			{D}		
1-Chlorooctane	79.2	100	79	70-135	
o-Terphenyl	44.8	50.0	90	70-135	

Lab Batch #: 787011

Sample: 356111-025 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/23/09 03:00	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
I-Chlorooctane	93.1	100	93	70-135		
o-Terphenyl	54.1	50.0	108	70-135		

Lab Batch #: 787011

Sample: 356111-026 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/23/09 03:27	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	126	100	126	70-135	
o-Terphenyl	74.3	50.0	149	70-135	*

Lab Batch #: 787011

Sample: 356111-027 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/23/09 03:54 SURROGATE RECOVERY STUDY						
ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]	ì	
1-Chlorooctane		84.3	100	84	70-135	
o-Terphenyl	!	48.4	50.0	97	70-135	

Lab Batch #: 787011

Sample: 356111-028 / SMP

Batch:

Matrix: Soil

Units: mg/kg [ate Analyzed: 12/23/09 04:21	SURROGATE RECOVERY STUDY				
TPH By S	W8015 Mod	Amount Found {A}	True Amount [B]	Recovery %R	Control Limits %R	Flags
Ana	lytes		ι-,	[D]		
1-Chlorooctane		84.6	100	85	70-135	
o-Terphenyl		48.0	50.0	96	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders: 356111,

Project ID: Southern Union Gas

Lab Batch #: 787011

Sample: 356111-029 / SMP

Batch: Matrix: Soil

Units: mg/kg Date Analyzed:	12/23/09 04:48	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes				[D]			
1-Chlorooctane		85.7	100	86	70-135		
o-Terphenyl		49.0	50.0	98	70-135		

Lab Batch #: 787011

Sample: 356111-030 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/23/09 05:15	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.0	100	85	70-135	
o-Terphenyl	48.4	50.0	97	70-135	

Lab Batch #: 787011

Sample: 356111-031 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/23/09 06:09 SURROGATE RECOVERY STUDY						
ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		83.1	100	83	70-135	
o-Terphenyl		46.8	50.0	94	70-135	

Lab Batch #: 787011

Sample: 356111-032 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/23/09 06:36	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes		400			
1-Chlorooctane'	124	. 100	124	70-135	
o-Terphenyl	71.8	50.0	144	70-135	*

Lab Batch #: 787011

Sample: 356111-033 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/23/09 07:03	SURROGATE RECOVERY STUDY					
ТРН І	By SW8015 Mod Analytes	Amount Found . [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane		96.0	100	96	70-135		
o-Terphenyl		54.7	50.0	109	70-135		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders: 356111,

Project ID: Southern Union Gas

Lab Batch #: 787011

Sample: 356111-034 / SMP

Matrix: Soil Batch: 1

Units: mg/kg	Date Analyzed: 12/23/09 07:30	SURROGATE RECOVERY STUDY						
ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
	Analytes		, .	[D]				
1-Chlorooctane		114	100	114	70-135			
o-Terphenyl		66.7	50.0	133	70-135			

Lab Batch #: 787011

Sample: 356111-035 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/23/09 07:57	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	91.1	100	91	70-135	
o-Terphenyl ·	51.5	50.0	103	70-135	

Lab Batch #: 787011

Sample: 356111-036 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/23/09 08:24	SU	RROGATE R	ECOVERY	STUDY	
ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		86.5	100	87	70-135	
o-Terphenyl		49.7	50.0	99	70-135	

Lab Batch #: 787011

Sample: 356111-037 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/23/09 08:51	SURROGATE RECOVERY STUDY					
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	Analytes	102	100	102	70-135		
o-Terphenyl	·	58.3	50.0	117	70-135		

Lab Batch #: 787011

Sample: 356111-038 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/23/09 09:21	SURROGATE RECOVERY STUDY						
ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
	Analytes			[D]				
1-Chlorooctane		81.1	100	18	70-135			
o-Terphenyl		46.8	50.0	94	70-135			

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders: 356111,

Project ID: Southern Union Gas

Lab Batch #: 787011

Sample: 356111-039 / SMP

Matrix: Soil

Units: mg/kg Date Analyzed: 12/23/09 09:48	SURROGATE RECOVERY STUDY						
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
Analytes			""				
1-Chlorooctane	83.8	100	84	70-135			
o-Terphenyl	48.4	50.0	97	70-135			

Lab Batch #: 787011

Sample: 356111-040 / SMP

Batch: 1

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/23/09 10:16	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.7	100	88	70-135	
o-Terphenyl	50.0	50.0	100	70-135	

Lab Batch #: 787011.

Sample: 356111-022 S / MS

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/23/09 10:43	SU	RROGATE R	ECOVERY :	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes 1-Chlorooctanc	106	99.5	107	70-135	
o-Terphenyl	49.3	49.8	99	70-135	

Lab Batch #: 787011

Sample: 356111-022 SD / MSD

Batch:

Matrix: Soil

SURROGATE RECOVERY STUDY					
Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
112	00.5	112	70 135		
	Amount Found	Amount True Found Amount [A] [B]	Amount True Recovery %R [D]	Amount True Recovery Control Limits %R D]	

Surrogate Recovery [D] = 100 * A / B

^{*} Surrogate outside of Laboratory QC limits .

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

^{***} Poor recoveries due to dilution



Blank Spike Recovery



Project Name: Southern Union Landfarm

Work Order #: 356111

Project ID:

Southern Union Gas

Lab Batch #: 786509

Sample: 786509-1-BKS

Matrix: Solid

Date Analyzed: 12/18/2009

Date Prepared: 12/18/2009

Analyst: LATCOR

Reporting Units: mg/kg	Batch #:	BLANK/BLANK SPIKE RECOVERY STUDY				
Anions by E300	Blank Result	Spike Added	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags
Analytes	[A]	[B]	[C]	[D]	70 K	
Chloride	ND	10.0	9.32	93	75-125	

Lab Batch #: 786511

Sample: 786511-1-BKS

Matrix: Solid

Date Analyzed: 12/19/2009

Date Prepared: 12/19/2009

Analyst: LATCOR

Reporting Units: mg/kg

BLANK /BLANK SPIKE RECOVERY STUDY

Treporting States Mg/Kg	Jaccii #.	DEANK/I	JUAININ SEE	KE KEC	OVERT	1001
Anions by E300	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags
Analytes	[A]	[B]	Result [C]	%R [D]	%R	
Chloride	ND	9.00	8.47	94	75-125	

Lab Batch #: 786560

Sample: 786560-1-BKS

Matrix: Solid

Date Analyzed: 12/21/2009

Date Prepared: 12/21/2009

Analyst: LATCOR

Reporting Units: mg/kg	Batch #:	BLANK/BLANK SPIKE RECOVERY STUDY						
Anions by E300	Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags		
Analytes		,-,	[C]	[D]				
Chloride	. ND	10.0	10.0	100	75-125			



BS / BSD Recoveries



Project Name: Southern Union Landfarm

Work Order #: 356111

Analyst: BEV

Project ID: Southern Union Gas

Date Analyzed: 12/22/2009

Lab Batch ID: 787011

Sample: 546262-1-BKS

Date Prepared: 12/21/2009 **Batch #:** 1

Matrix: Solid

Units: mg/kg	Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	998	947	95	1010	904	90	. 5	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	998	934	94	1010	750	74	22	70-135	35	

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



Form 3 - MS Recoveries

Project Name: Southern Union Landfarm



Work Order #: 356111

Lab Batch #: 786509

Date Analyzed: 12/18/2009

Date Prepared: 12/18/2009

Project ID: Southern Union Gas

Analyst: LATCOR

QC- Sample ID: 356110-035 S

Batch #:

Matrix: Soil

eporting Units: mg/kg MATRIX SPIKE RECOVERY STUDY						DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result C	%R [D]	Control Limits %R	Flag
Chloride	ND	108	108	100	75-125	

Lab Batch #: 786511

Date Analyzed: 12/19/2009

Date Prepared: 12/19/2009

Analyst: LATCOR

QC- Sample ID: 356111-015 S

Batch #:

Matrix: Soil

Reporting Units: mg/kg	MATE	MATRIX / MATRIX SPIKE RECOVERY STUDY							
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag			
Analytes	IAI	[B]							
Chloride	17.8	113	147	114	75-125				

Lab Batch #: 786560

Date Analyzed: 12/21/2009

Date Prepared: 12/21/2009

Analyst: LATCOR

QC- Sample ID: 356111-035 S

Batch #:

Matrix: Soil

Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY								
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag			
Chloride	10.0	151	156	97	75-125				

Matrix Spike Percent Recovery [D] = 100*(C-A)/B elative Percent Difference [E] = 200*(C-A)/(C+B).11 Results are based on MDL and Validated for QC Purposes

JRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries

Project Name: Southern Union Landfarm

Work Order #: 356111

Project ID: Southern Union Gas

70-135

Lab Batch ID: 786685

TPH By SW8015 Mod

Analytes

QC-Sample ID: 356111-007 S

Matrix: Soil

Date Analyzed: 12/21/2009

Date Prepared: 12/18/2009

Analyst: BEV

Batch #:

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
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		
1240	1080	87	1250	1160	93	7	70-135	35			

923

1

Lab Batch ID: 787011

Parent

Sample Result

[A]

ND

65.2

QC- Sample ID: 356111-022 S

1240

Batch #:

Matrix: Soil

Date Analyzed: 12/23/2009

C6-C12 Gasoline Range Hydrocarbons

C12-C28 Diesel Range Hydrocarbons

Date Prepared: 12/21/2009

Analyst: BEV

1250

.... TT-:4-

Reporting Units: mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
TPH By SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R Added [D] [E]		Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	ND	1230	1170	95	1230	1250	102	7	70-135	35	
C12-C28 Diesel Range Hydrocarbons	95.0	1230	1110	83	1230	883	64	23	70-135	35	Х

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Sample Duplicate Recovery

Project Name: Southern Union Landfarm

Work Order #: 356111

Lab Batch #: 786509

Project ID: Southern Union Gas

Date Analyzed: 12/18/2009

Date Prepared: 12/18/2009

Analyst: LATCOR

QC- Sample ID: 356110-035 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg	SAMPLE / SAMPLE DUPLICATE RECOVERY							
Anions by E300 Analyte	Parent Sample · Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag			
Chloride	ND	ND	NC	20				

Lab Batch #: 786511

Date Analyzed: 12/19/2009

Date Prepared: 12/19/2009

Analyst: LATCOR

QC- Sample ID: 356111-015 D

Anions by E300

Analyte

Batch #:

Matrix: Soil

Reporting Units: mg/kg

SAMPLE	SAMPLE	DUPLIC	CATE REC	OVERY
Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
170	10.2	0	20	

Lab Batch #: 786560

Chloride

Date Analyzed: 12/21/2009

Date Prepared: 12/21/2009

Analyst: LATCOR

QC- Sample ID: 356111-035 D

Batch #:

Matrix: Soil

Reporting Units: mg/kg	SAMPLE	SAMPLE / SAMPLE DUPLICATE RECOVERY							
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag				
Analyte		[B }							
Chloride	10.0	10.1	1	20					

Lab Batch #: 786471

Date Analyzed: 12/18/2009

Date Prepared: 12/18/2009

Analyst: WRU

QC- Sample ID: 356111-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	14.6	13.6	7 .	20	



Sample Duplicate Recovery

Project Name: Southern Union Landfarm

Work Order #: 356111

Lab Batch #: 786476

Project ID: Southern Union Gas

Date Analyzed: 12/18/2009

Date Prepared: 12/18/2009

Analyst: WRU

QC- Sample ID: 356111-021 D

Batch #:

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Reporting Onto. 70	SAMILE / SAMILE DUILICATE RECOVERT							
Percent Moisture	Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag			
Analyte		[B]						
Percent Moisture	15.6	16.3	4	20				

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Final Ver. 1.000

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Project Manager. Rose Slade PAGE 01 OF 04 Project Name: Southern Union Landfarm Company Name Southern Union Gas Services Project #: Southern Union Gas Company Address: 1507 W. 15th Street Project Loc: Lea County, NM City/State/Zip: Monahans, TX 79756 TRRP NPOES. Telephone No: Fax No: 432-943-1101 Report Format: rose.slade@SUG.com Sampler Signature: e-mail: Analyze For: (lab use only) TCLP: TOTAL ORDER#: 356111 Preservation & of Containers Matrix å als: As Ag Ba Cd Cr Pb Hg Se 37EX 8021B/5030 or BTEX Orty) ons (Ca. Mg, Na, K) eginning Depth EPA Paint Filter Test Time Sampled Ending Depth N.O.R.M. FIELD CODE TZ Cell 14 G1 12/15/2009 0900 Soll 2 12/15/2009 0910 TZ Cell 1 G1 Soil 3 12/15/2009 0920 TZ Cell 1 G2 Sail 4 12/15/2009 0930 TZ Cell 1 G3 Soil 5 0940 TZ Cell 1 G4 12/15/2009 Soll 12/15/2009 0950 1 X TZ Cell 1 G5 Soll 7 TZ Cell 2 G1 12/15/2009 1000 Soil TZ Celi 2 G2 12/15/2009 1010 Soli 9 TZ Cell 2 G3 12/15/2009 1020 Soil 10 12/15/2009 1030 Soil TZ Cell 2 G4 Special Instructions: Laboratory Comments: Please copy to cdstanley@basin-consulting.com Sanda Certainer Insult VOCs Free of Headspace? Custody seals on container(s) / Like N Date Received by: Sample Hand Delivered Received by: Date by Sampler/Client Rep. ? UPS DHL FedEx Lone Star Date Received by ELOT: Retinquished by: Temperature Upon Receipt: 5.6.0 12-17-09 1704

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12500 West I-20 East Odessa, Texas 79765 Phone: 432-563-1800 Fax: 432-563-1713

	Project Manager: Rose	Slade			PAGE 02 C	OF 04				 					_	Proje	ct Na	ıme:	Sou	the	rn U	nlo	<u>n Le</u>	<u>andf</u>	<u>larm</u>	n			
	Company Name South	nern Union Gas Se	rvices												_	ī	Proje	ct #:	Sou	the	rn U	nio	n G	as					
	Company Address: 1507	W. 15th Street													_	Pro	ject l	Loc:	Lea (Cour	nty, N	·M							
	City/State/Zip: Mona	hans, TX 79756												٠	_		P	O#:											
	Telephone No: 432-9 Sampler Signature:	43-11/6	- الريمة	<u> </u>		Fax No		-	2-943 Se.:	 	ā)SI	UG	.cor	n	Rep	art F	orma	t: 1	X s	tanc	dard			TRE	₹₽			NPDE	s
(lab use	ontv)		7			•												•			Analy	ze F	or:	<u> </u>	_		_	7	1
٠.	n#: 356///							152		 44 Pl A		-			l line	上			TOTA		土	上	H			Ì		27 hrs	
LAB # (lab use only)	FIELD COD		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers 402.9		0A X 2)		Nach Second	None (PAH)		ater	TPH: 418.1 80.15M RO15B	1 XT 8001 XT	Cations (Ca, Mg, Na, K)	Anions (CI, SO4, Alkalinity)	Metals: As Ao Ba Cd Cr Pb Ho Se	Volaties	Sernivolatibes	BTEX 80218/5030 or BTEX 8260	RCI	N.O.R.M.	РАН	EPA Paint Filter Test	Chlondes E 300) RUSH TAT (Pre-Schedule) 24, 46,	
11	TZ Cell 3 (G1			12/15/2009	1040		1	x	7	1	T	1	T	Soll	_	_	Ĭ	1	†	+	<u>"</u>			7			x	X
12	TZ Cell 3 (32			12/15/2009	1050		1	x						Soil	$\neg \vdash$	•	\Box		T	\top	П			十	十		x	x
13	TZ Cell 3 (33			12/15/2009	1100		1	X						Soil	×				T		П		T	T	丁	7,	x	х
14	TZ Cell 3 (34			12/15/2009	1110		1	х				I_{-}		Soil	X					\prod			T	T	1	7,	χ	x
15	TZ Cell 3 (35 <u> </u>			12/15/2009	1120		1	x						Soll	X					T	\Box	\Box	Т	Т	T	T	x	x
16	TZ Cell 4 C	3 1			12/15/2009	1130		1	X						Soll	х			Т			П		\top	Т	1	7	x	X
17	TZ Cell 4 (32	<u> </u>		12/15/2009	1140		1	х						Soil	Х						П		T		T	75	x	X
18	TZ Cell 4 C	33			12/15/2009	1150		1	X						Soil	X							\Box		T		万	χĪ	х
19	TZ Cell 4 (34			12/15/2009	1200		1	x						Soil	X							\Box		\perp	T	X	K	X
70	TZ Cell 4 C	<u> </u>	<u> </u>	<u> </u>	12/15/2009	1210		1	x		$oldsymbol{\perp}$				Soil	X							\Box		\perp	$oxed{\mathbb{T}}$	y		X
Special I	nstructions: Please copy to cds	tanley@basin-co	nsultin	g.com	ı .												i				omm	No.							
Réfinquist Relinquis	1) Hul	Date	170	me) (Received by:									Da Da		Tin		Sem	ole H	and	Head on co Deliv	ered			chel			N N N O	
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Relinquist	ned by:	Date	Ti	me	Received by ELC	ne Tite	ム						iz	Da 71 -		Tim 170					Jpon						5.6		
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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: Rose Slade PAGE 03 OF 04 Project Name: Southern Union Landfarm Company Name Southern Union Gas Services Project #: Southern Union Gas Company Address: 1507 W. 15th Street Project Loc: Les County, NM City/State/Zip: Monahans, TX 79756 X Standard Telephone No: TRRP □ NPDES Fax No: 432-943-1101 Report Format: Sampler Signature: rose.slade@SUG.com e-mail: Analyze For. (tab use only) TOP: 356111 TOTAL: ORDER #: Preservation & / of Containers Matrix Cd Cr Pt Hg Se (Muo eginning Depth Time Sampled inding Depth 8 None (PAH) N.O.R.M. 3 FIELD CODE 2 TZ Cell 8 G1 12/15/2009 1220 Soll TZ Cell 8 G2 12/15/2009 1230 Soil 23 TZ Cell 7 G1 12/15/2009 1240 Soil 74 TZ Cell 5 G1 12/15/2009 1250 Soil 25 TZ Cell 6 G1 12/15/2009 1300 Soll 26 TZ Cell 6 G2 12/15/2009 1310 Soli 27 TZ Cell 9 G1 12/15/2009 1320 Soil 28 TZ Cell 9 G2 12/15/2009 1330 Soil 29 TZ Cell 9 G3 12/15/2009 1340 Soil TZ Cell 9 G4 12/15/2009 1350 Soll Special Instructions: Laboratory Comments: Please copy to cdstanley@basin-consulting.com Sample Containing Wheel VOCs Free of Headspace? Custody seeks on container(s) / but N Received by: Date Time Sample Hand Delivered by Sampler/Client Rep. ? by Sourist? UPS Received by: Date Time UPS DHL FedEx Lone Star Date Received by ELOT: Date Relinquished by: Time Temperature Upon Receipt: 1704 5.6 12-1709

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

	Project Manager:	Rose Slade				PAGE 04 C	OF 04										_	Proj	ect N	ame:	So	uthe	<u>rn l</u>	<u>Jnic</u>	<u>n L</u>	and	farr	<u>n_</u>			
	Company Name	Southern Union Gas	s Servi	ces													-		Proje	ct #:	Soi	ıthe	<u>ırn l</u>	Jnic	ж G	88					_
	Company Address:	1507 W. 15th Street	t														_	Pr	oject	Loc:	Lea	Cou	nty,	NM.							
	City/State/Zip:	Monahans, TX 7975	16														•		P	O #:											
	Telephone No:	432-943-1116		<u> </u>		<u>. </u>	Fax No:		432	-94	3-110	1					Res	oort i	oma	ıt:	X	Stand	dard			TRI	RP			NPDE	S
	Sampler Signature:	(1)	H	W	I.	/	e-mail:		ro	se.	slac	de(<u> </u>	UG	.cor	<u>n</u>					_		Ana	lvza	For						7
(isb use	•••				(9												ţ				LP:	I	Ï	Ï	П		T	Т	- E	<u> </u>
ORDER	1#: 356111			_					250		serv	atio	n & #	of Co	ontali	ners	Matr	iχ	9	Т	τοτ		8	十	+	 		,	-	1 2	
LAB # (lab use only)	FIEL	.D CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers 402.9	Ice	HNO ₃	HCI (VOA X 2)	4.SO.	NaOH Na.9.O.	None (PAH)	Other (Specify)	St Sludg Soll/Sof	Specify oth	TPH: TX 1005 TX 1006		Anlons (CI, SO4, Alkelinity)	SAR / ESP / CEC	Metals: As Ag da Cd Cr Pb Hg S Voletties	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	РАН	EPA Paint Filter Test	Chlorides E 300) RUSH TAT (Pr-Behadule) 24	
3	TZ C	eli 9 G5				12/15/2009	1400		1	X							Soi		x				$oldsymbol{\mathbb{T}}$	I	I				_	x	х
32	TZ C	ell 10 G1				12/15/2009	1410		1	X				\perp			Soi	1	x					\perp			\Box	\Box	\prod	X	X
33	TZ C	ell 10 G2				12/15/2009	1420		1	X							Soi		ĸ				\mathbb{I}	T					:	x	x
34	TZ C	ell 10 G3				12/15/2009	1430		1	X							Sol	2	ĸ				\perp	L				\Box	\exists :	x	x
<i>3</i> 5	TZ C	ell 10 G4				12/15/2009	1440		1	x							Sol	;]	ĸ			Т	T	T		\Box	\Box		\prod_{i}	x	x
36	TZ C	ell 15 G1				12/15/2009	1450		1	X							Soll	1 7	ĸ			T		Т		П	П	\top	7;	x	x
37	TZ C	ell 11 G1				12/15/2009	1500		1	x			Т				Soil	1	(T	T	Т		П	Т	\Box	Τ,	χ	x
.38	TZ C	ell 11 G2				12/15/2009	1510		1	X							Soil					T	Т	T	\sqcap	П	П	T	7,	χĪ	X
39	TZ Co	ell 12 G1			·	12/15/2009	1520		1	X			T				Soil		<u>(</u>			Γ	T	T	\Box	П	Т	Т	T_{i}	x	x
40	TZ Co	ell 13 G1				12/15/2009	1530		1	X				$oxed{\Box}$			Soil)	(T				T	Π		П			\top_{i}	\mathbf{x}^{\top}	x
		to cdstanley@basir																-		l voc	e Fn	an of	Hee	Mene	s: ace?			77	7-7	N N	
Retipouist	Han	12/17 Dat	bal		4	Received by:						-				Da		7 T i	me	CU CO	tody locky	soal:	s on	green contr de of	ainer Mile)	(s)/	abe	Y	2	N N	
Relinquis		0				Received by:										Da			TRE	Sem	ipie r	mple	Dell'	vere	ка Кер. ?			Y		'N N one S	
Relinquist	ned by:	Date	e	Tim	ne	Received by ELC	r: ne Fi	1e	<u>L</u>						12	Da ()	te 7-0 9		me 704	Terr	pera	ture '	Upor	ı Re	ceipt	:				, ·c	٠. ا
						~																									_

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client:	SUGS				
Date/ Time:	12-17-09 01704				
Lab 1D # :	356111				
Initials:	JMF				
	Sample Receipt (Checklist		CI	ient initials
#1 Tempera	ture of container/ cooler?	Yes	No	5.6 °C	
#2 Shipping	container in good condition?	Yes >	No		
#3 Custody	Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4 Custody	Seals intact on sample bottles/ container?/(a/x)	des	No	Not Present	
#5 Chain of	Custody present?	Yes	No		
#6 Sample	instructions complete of Chain of Custody?	Yes	No		
#7 Chain of	Custody signed when relinquished/ received?	Ves	No		
	Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
	er label(s) legible and intact?	Yes	No	Not Applicable	
	matrix/ properties agree with Chain of Custody?	Yes	No		
	ers supplied by ELOT?	Ves	No		
#12 Sample	s in proper container/ bottle?	(es)	No	See Below	
	s properly preserved?	Yes	No	See Below	
	bottles intact?	(Yes)	No		
	rations documented on Chain of Custody?	Yes	No		
#16 Contain	ers documented on Chain of Custody?	(Yes	No		
	nt sample amount for indicated test(s)?	Yes	No	See Below	
	ples received within sufficient hold time?	(Yes)	No	See Below	
	tract of sample(s)?	Yes	(No)	Not Applicable	
	amples have zero headspace?	Yes)	No	Not Applicable	
Contact:	Variance Docum	nentation		Date/ Time:	
Regarding:					
Corrective Ad	ction Taken:				·
Check all tha	at Apply: See attached e-mail/ fax Client understands and would	-		-	

Analytical Report 356110

for

Southern Union Gas Services- Monahans

Project Manager: Rose Slade

Southern Union Landfarm
Southern Union Gas

22-DEC-09





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), 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 (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALII), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)
Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),
South Carolina(96031001), Louisiana(04154), Georgia(917)





22-DEC-09

Project Manager: Rose Slade

Southern Union Gas Services- Monahans

1507 W. 15th Street Monahans, TX 79756

Reference: XENCO Report No: 356110

Southern Union Landfarm
Project Address: Lea County, NM

Rose Slade:

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 356110. 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. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. 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. 356110 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,

Brent Barron, II

Odessa Laboratory Manager

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

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



Sample Cross Reference 356110



Southern Union Gas Services- Monahans, Monahans, TX

Southern Union Landfarm

Sample Id	Matrix	Date Collected Sample Depth	Lab Sample Id
VZ Cell 14 G1	S	Dec-16-09 09:05	356110-001
VZ Cell 1 G1	S	Dec-16-09 09:15	356110-002
VZ Cell 1 G2	S	Dec-16-09 09:25	356110-003
VZ Cell 1 G3	S	Dec-16-09 09:35	356110-004
VZ Cell 1 G4	S	Dec-16-09 09:45	356110-005
VZ Cell 1 G5	S	Dec-16-09 09:55	356110-006
VZ Cell 2 G1	S	Dec-16-09 10:05	356110-007
VZ Cell 2 G2	S	Dec-16-09 10:15	356110-008
VZ Cell 2 G3	S	Dec-16-09 10:25	356110-009
VZ Cell 2 G4	S	Dec-16-09 10:35	356110-010
VZ Cell 3 G1	S	Dec-16-09 10:45	356110-011 .
VZ Cell 3 G2	S	Dec-16-09 10:55	356110-012
VZ Cell 3 G3	S	Dec-16-09 11:05	356110-013
VZ Cell 3 G4	S	Dec-16-09 11:15	356110-014
VZ Cell 3 G5	S	Dec-16-09 11:25	356110-015
VZ Cell 4 G1	S	Dec-16-09 11:35	356110-016
VZ Cell 4 G2	S	Dec-16-09 11:45	356110-017
VZ Cell 4 G3	S	Dec-16-09 11:55	356110-018
VZ Cell 4 G4	S	Dec-16-09 12:05	356110-019
VZ Cell 4 G5	S	Dec-16-09 12:15	356110-020
VZ Cell 8 G1	S	Dec-16-09 12:25	356110-021
VZ Cell 8 G2	S	Dec-16-09 12:35	356110-022
VZ Cell 7 GI	S	Dec-16-09 12:45	356110-023
VZ Cell 5 G1	S	Dec-16-09 12:55	356110-024
VZ Cell 6 G1	S	Dec-16-09 13:05	356110-025
VZ Cell 6 G2	S	Dec-16-09 13:15	356110-026
VZ Cell 9 G1	S	Dec-16-09 13:25	356110-027
VZ Cell 9 G2	S	Dec-16-09 13:35	356110-028
VZ Cell 9 G3	S	Dec-16-09 13:45	356110-029
VZ Cell 9 G4	S	Dec-16-09 13:55	356110-030
VZ Cell 9 G5	S	Dec-16-09 14:05	356110-031
VZ Cell 10 G1	S .	Dec-16-09 14:15	356110-032
VZ Cell 10 G2	S	Dec-16-09 14:25	356110-033
VZ Cell 10 G3	S	Dec-16-09 14:35	356110-034
VZ Cell 10 G4	S	Dec-16-09 14:45	356110-035
VZ Cell 15 G1	S	Dec-16-09 14:55	356110-036
VZ Cell 11 G1	S	Dec-16-09 15:05	356110-037
VZ Cell 11 G2	S	Dec-16-09 15:15	356110-038
VZ Cell 12 G1	S	Dec-16-09 15:25	356110-039
VZ Cell 13 G1	. S	Dec-16-09 15:35	356110-040

CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans

Project Name: Southern Union Landfarm

Project ID:

Southern Union Gas

Work Order Number: 356110

Report Date: 22-DEC-09

Date Received: 12/17/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-786465 Percent Moisture

None

Batch: LBA-786468 Percent Moisture

None

Batch: LBA-786498 Inorganic Anions by EPA 300

None

Batch: LBA-786505 Anions by E300

E300MI

Batch 786505, Chloride RPD is outside the QC limit. This is most likely due to sample non-

homogeneity.

Samples affected are: 356110-023, -027, -028, -020, -021, -029, -030, -018, -034, -019, -022, -

026, -031, -032, -015, -017, -025, -016, -024, -033.

Batch: LBA-786507 TPH By SW8015 Mod

None

Batch: LBA-786509 Anions by E300

None

Batch: LBA-786512 TPH By SW8015 Mod

None

CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans

Project Name: Southern Union Landfarm

Project ID:

Southern Union Gas

Work Order Number: 356110

Report Date: 22-DEC-09

Date Received: 12/17/2009

Batch: LBA-786542 BTEX by EPA 8021B

SW8021BM

Batch 786542, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike. Benzene, Ethylbenzene, Toluene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 356110-006, -014, -007, -020, -001, -018, -002, -004, -009, -013, -005, -012, -019, -008, -010, -015, -017, -003, -011, -016.

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

Batch: LBA-786549 BTEX by EPA 8021B

None



Southern Union Gas Services- Monahans, Monahans, TX

Project Name: Southern Union Landfarm

Date Received in Lab: Thu Dec-17-09 05:04 pm

Report Date: 22-DEC-09



Contact: Rose Slade Project Location: Lea County, NM

Project Id: Southern Union Gas

	·							Project Ma	nager:	Brent Barron	, II		
	Lab Id:	356110-0	100	356110-0	02	356110-0	03	356110-0	004	356110-	005	356110-0	006
Analysis Requested	Field Id:	VZ Cell 1-	4 G1	VZ Cell 1	Gl	VZ Cell I	G2	VZ Cell I	G3	VZ Cell	1 G4	VZ Cell 1	G5
Analysis Requesieu	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-16-09	09:05	Dec-16-09	09:15	Dec-16-09	09:25	Dec-16-09	09:35	Dec-16-09	09:45	Dec-16-09	09:55
Anions by E300	Extracted:												
•	Analyzed:	Dec-18-09	13:07	Dec-18-09	13:07	Dec-18-09	13:07	Dec-18-09	13:07	Dec-18-09	13:07	Dec-18-09	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		25.1	4.80	ND	4.79	ND	4.55	46.9	4.65	15.7	4.52	4.57	4.45
BTEX by EPA 8021B	Extracted:	Dec-19-09	11:13	Dec-19-09	11:13	Dec-19-09	11:13	Dec-19-09	11:13	Dec-19-09	11:13	Dec-19-09	11:13
	Analyzed:	Dec-20-09	13:32	Dec-20-09	13:56	Dec-20-09	14:20	Dec-20-09	14:43	Dec-20-09	15:07	Dec-20-09	15:31
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011
Toluene		ND	0.0023	. ND	0.0023	ND	0.0022	ND	0.0022	ND	0.0021	ŇD	0.0021
Ethylbenzene			0.0011	ND	0.0011	ND	0.0011	· ND	0.0011	ND	0.0011	ND	0.0011
m,p-Xylenes			0.0023		0.0023		0.0022		0.0022	ND	0.0021	ND	0.0021
o-Xylene			0.0011		0.0011		0.0011		0.0011	ND	0.0011	ND	0.0011
Total Xylenes			0.0011		0.0011		0.0011		0.0011		0.0011	ND	1100.0
Total BTEX		ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011
Percent Moisture	Extracted:												
	Analyzed:	Dec-18-09	17:00	Dec-18-09	7:00	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	17:00
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		12.4	1.00	12.4	1.00	7.72	1.00	9.71	1.00	7.11	1.00	5.64	1.00
TPH By SW8015 Mod	Extracted:	Dec-18-09	13:45	Dec-18-09	13:45	Dec-18-09	13:45	Dec-18-09	13:45	Dec-18-09	13:45	Dec-18-09	13:45
	Analyzed:	Dec-19-09	14:59	Dec-19-09	15:26	Dec-19-09	15:53	Dec-19-09	16:20	Dec-19-09	16:46	Dec-19-09	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	17.0	ND	17.0	ND	16.2	ND	16.6	ND	16.1	ND	15.8
C12-C28 Diesel Range Hydrocarbons		ND	17.0	ND	17.0	ND	16.2	ND	16.6	ND	16.1	ND	15.8
C28-C35 Oil Range Hydrocarbons		ND	17.0	ND	17.0	ND	16.2	ND	16.6	ND	16.1	ND	15.8
Total TPH		ND	17.0	ND	17.0	ND	16.2	ND	16.6	· ND	16.1	ND	15.8

Page 6 of 46

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

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

Brent Barron, II Odessa Laboratory Manager



Southern Union Gas Services- Monahans, Monahans, TX

Project Name: Southern Union Landfarm

nelad

Project Id: Southern Union Gas

Contact: Rose Slade

Project Location: Lea County, NM

Date Received in Lab: Thu Dec-17-09 05:04 pm

Report Date: 22-DEC-09

Project Manager: Brent Barron, II

	T:							Froject Ma	nager:	Brent Barron,	, 11		
· ·	Lab Id:	356110-0	007	356110-0	800	356110-0	009	356110-0	010	356110-0	011	356110-	012
Analysis Requested	Field Id:	VZ Cell 2	2 G1	VZ Cell 2	. G2	VZ Cell 2	2 G3	VZ Cell 2	2 G4	VZ Cell 3	3 G1	VZ Cell :	3 G2
Anatysis Kequesieu	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	_
	Sampled:	Dec-16-09	10:05	Dec-16-09	10:15	Dec-16-09	10:25	Dec-16-09	10:35	Dec-16-09	10:45	Dec-16-09	10:55
Anions by E300	Extracted:												
	Analyzed:	Dec-18-09	13:07	Dec-18-09	13:07	Dec-18-09	13:07	Dec-18-09	13:07	Dec-18-09	13:07	Dec-18-09	13:07
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride	•	14.4	4.54	ND	4.53	31.2	9.55	10.6	4.50	7.03	4.68	10.6	4.73
BTEX by EPA 8021B	Extracted:	Dec-19-09	11:13	Dec-19-09	11:13	Dec-19-09	11:13	Dec-19-09	11:13	Dec-19-09	11:13	Dec-19-09	11:13
·	Analyzed:	Dec-20-09	15:55	Dec-20-09	16:18	Dec-20-09	16:42	Dec-20-09	17:06	Dec-20-09	18:17	Dec-20-09	18:41 ·
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	. ND	0.0011	ND	0.0011
Toluene		ND	0.0022	ND	0.0022	ND	0.0023	ND	0.0021	ND	0.0022	ND	0.0023
Ethylbenzene		ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011
m,p-Xylenes		ND	0.0022	ND	0.0022	ND	0.0023	ND	0.0021	ND	0.0022	ND	0.0023
o-Xylene			0.0011	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011
Total Xylenes			0.0011		0.0011	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011
Total BTEX		ND	0.001,1	ND	0.0011	ND	0.0011	. ND	1100.0	ND	0.0011	ND	0.0011
Percent Moisture	Extracted:												
_	Analyzed:	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	17:00
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		7.44	1.00	7.24	1.00	12.0	1.00	6.71	1.00	10.3	1.00	11.2	1:.00
TPH By SW8015 Mod	Extracted:	Dec-18-09	13:45	Dec-18-09	13:45	Dec-18-09	13:45	Dec-18-09	13:45	Dec-18-09	13:45	Dec-18-09	13:45
	Analyzed:	. Dec-19-09	17:39	Dec-19-09	18:06	Dec-19-09	18:33	Dec-19-09	19:00	Dec-19-09	19:54	Dec-19-09	20:20
	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	16.2	ND	16.1	ND	17.1	ND	16.1	ND	16.7	ND	16.9
C12-C28 Diesel Range Hydrocarbons		ND	16.2	ND	16.1	ND	17.1	ND	16.1	ND	16.7	ND	16.9
C28-C35 Oil Range Hydrocarbons		ND	16.2	ND	16.1	ND	17.1	ND	16.1	ND	16.7	ND	16.9
Total TPH		ND	16.2	ND	16.1	ND	17.1	ND	16.1	ND	16.7	ND	16.9

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Brent Barron, II Odessa Laboratory Manager



Southern Union Gas Services- Monahans, Monahans, TX

Project Name: Southern Union Landfarm

Date Received in Lab: Thu Dec-17-09 05:04 pm

Report Date: 22-DEC-09
Project Manager: Brent Barron II

Project Id: Southern Union Gas
Contact: Rose Slade

Project Location: Lea County, NM

							Project Ma	nager:	Brent Barron,	. 11		
	Lab Id:	356110-013	356110	-014	356110-0	15	356110-0	016	356110-0	017	356110-0	018
Analysis Requested	Field Id:	VZ Cell 3 G3	VZ Cell	3 G4	VZ Cell 3	G5	VZ Cell 4	GI	VZ Cell 4	l G2	VZ Cell 4	4 G3
Anaiysis Kequesieu	Depth:											
	Matrix:	SOIL	soı	L	SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-16-09 11:05	Dec-16-09	11:15	Dec-16-09	11:25	Dec-16-09	11:35	Dec-16-09	11:45	Dec-16-09	11:55
Anions by E300	Extracted:											
	Analyzed:	Dec-18-09 13:07	Dec-18-09	13:07	Dec-18-09	18:37	Dec-18-09	18:37	Dec-18-09	18:37	Dec-18-09	18:37
·	Units/RL:	mg/kg R	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		11.5 4.6	5.35	4.68	ND	4.73	ND	4.74	8.56	4.54	12.9	4.62
BTEX by EPA 8021B	Extracted:	Dec-19-09 11:13	Dec-19-09	11:13	Dec-19-09	11:13	Dec-19-09	11:13	Dec-19-09	11:13	Dec-19-09	11:13
	Analyzed:	Dec-20-09 19:04	Dec-20-09	19:28	Dec-20-09	19:51	Dec-20-09	20:15	Dec-20-09	20:38	Dec-20-09	21:02
	Units/RL:	mg/kg R	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND 0.001	ND	0.0011	. ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011
Toluene		ND 0.002	2 ND	0.0022	ND	0.0022	ND	0.0022	ND	0.0022	ND	0.0022
Ethylbenzene		ND 0.001	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011
m,p-Xylenes		ND 0.002	2 ND	0.0022	ND .	0.0022	ND	0.0022	ND	0.0022	ND	0.0022
o-Xylene		ND 0.001	ND	0.0011		0.0011	ND	0.0011	ND	0.0011	ND	0.0011
Total Xylenes		ND 0.001	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011
Total BTEX		ND 0.001	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011
Percent Moisture	Extracted:											
,	Analyzed:	Dec-18-09 17:00	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	17:00
•	Units/RL:	% RI	_ %	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		10.2 1.0	10.3	1.00	11.3	1.00	11.3	1.00	7.47	1.00	9.02	1.00
TPH By SW8015 Mod	Extracted:	Dec-18-09 13:45	Dec-18-09	13:45	Dec-18-09	13:45	Dec-18-09	13:45	Dec-18-09	13:45	Dec-18-09	13:45
	Analyzed:	Dec-19-09 20:47	Dec-19-09	21:14	Dec-19-09	21:41	Dec-19-09	22:07	Dec-19-09	22:34	Dec-19-09	23:00
	Units/RL:	mg/kg Ri	_ mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND 16.	ND ND	16.6	· ND	16.9	ND	16.9	ND	16.2	ND	16.4
C12-C28 Diesel Range Hydrocarbons		ND 16.		16.6	ND	16.9	ND	16.9	ND	16.2	ND	16.4
C28-C35 Oil Range Hydrocarbons		ND 16.		16.6	ND	16.9	ND	16.9	ND	16.2	ND	16.4
Total TPH	.	ND 16.	5 ND	16.6	ND	16.9	ND	16.9	ND	16.2	ND	16.4

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Brent Barron, II Odessa Laboratory Manager



Certificate of Analysis Summary 356110 Southern Union Gas Services- Monahans, Monahans, TX

3

Project Id: Southern Union Gas

Contact: Rose Slade

Project Location: Lea County, NM

Project Name: Southern Union Landfarm

Date Received in Lab: Thu Dec-17-09 05:04 pm

Report Date: 22-DEC-09

Project Manager: Brent Barron, II.

								Project Ma	nager:	Brent Barron	, 11		
	Lab Id:	356110-0	19	356110-0	20	356110-0	121	356110-	022	356110-	023	356110-	024
Analysis Requested	Field Id:	VZ Cell 4	G4	VZ Cell 4	G5	VZ Cell 8	GI	VZ Cell 8	3 G2	VZ Cell	7 GI	VZ Cell	5 G1
Analysis Nequesieu	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-16-09	12:05	Dec-16-09	12:15	Dec-16-09	12:25	Dec-16-09	12:35	Dec-16-09	12:45	Dec-16-09	12:55
Anions by E300	Extracted:												
	Analyzed:	Dec-18-09	18:37	Dec-18-09	18:37	Dec-18-09	18:37	Dec-18-09	18:37	Dec-18-09	18:37	Dec-18-09	18:37
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride	,	ND	4.64	ND	4.64	63.0	4.99	33.4	4.62	ND	4.55	ND	4.65
BTEX by EPA 8021B	Extracted:	Dec-19-09	11:13	Dec-19-09	11:13	Dec-19-09	11:20	Dec-19-09	11:20	Dec-19-09	11:20	Dec-19-09	11:20
	Analyzed:	Dec-20-09	21:26	Dec-20-09	21:49	Dec-21-09	01:22	Dec-21-09	01:46	Dec-21-09	02:09	Dec-21-09	02:33
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL.
Benzene		ND	0.0011	ND	0.0011	ND	0.0012	ND	0.0011	ND	0.0011	ND	0.0011
Toluene		ND	0.0022	ND	0.0022	ND	0.0024	ND	0.0022	ND	0.0021	ND	0.0022
Ethylbenzene			0.0011	ND	0.0011	ND	0.0012	ND	0.0011	ND	0.0011	ND	0.0011
m,p-Xylenes		ND	0.0022	ND	0.0022	ND	0.0024	ND	0.0022	ND	0.0021	ND	0.0022
o-Xylene		-	0.0011		0.0011		0.0012	ND	0.0011	ND	0.0011	ND	0.0011
Total Xylenes		ND	0.0011	ND	0.0011	ND	0.0012	ND	0.0011	ND	0.0011	ND	0.0011
Total BTEX		ND	0.0011	ND	0.0011	ND	0.0012	ND	0.0011	ND	0.0011	ND	0.0011
Percent Moisture	Extracted:												
	Analyzed:	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	17:00
	Units/RL:	%	RL	<u></u> %	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		9.51	1.00	9.45	1.00	15.8	1.00	9.18	1.00	7.65	1.00	9.63	1.00
TPH By SW8015 Mod	Extracted:	Dec-18-09	13:45	Dec-18-09	13:45	Dec-18-09	13:45	Dec-18-09	13:45	Dec-18-09	13:45	Dec-18-09	13:45
	Analyzed:	Dec-19-09	23:27	Dec-19-09	23:54	Dec-20-09	04:45	Dec-20-09	05:11	Dec-20-09	05:38	Dec-20-09	06:04
	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	16.6	ND	16.6	ND	17.7	ND	16.5	ND	16.2	ND	16.6
C12-C28 Diesel Range Hydrocarbons		ND	16.6	ND.	16.6	ND	17.7	ND	16.5	ND	16.2	ND	16.6
C28-C35 Oil Range Hydrocarbons		ND	16.6	ND	16.6	ND	17.7	ND	16.5	ND	16.2	· ND	16.6
Total TPH		ND	16.6	ND	16.6	ND	17.7	ND	16.5	ND	16.2	ND	16.6

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Brent Barron, II Odessa Laboratory Manager

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Page 9 of 46



Certificate of Analysis Summary 356110 Southern Union Gas Services- Monahans, Monahans, TX

nelad

Project Id: Southern Union Gas

Contact: Rose Slade

Project Location: Lea County, NM

Project Name: Southern Union Landfarm

Date Received in Lab: Thu Dec-17-09 05:04 pm

Report Date: 22-DEC-09
Project Manager: Brent Barron, II

								1 roject ma	nager.	Dient Danton,	, 44		
	Lab Id:	356110-0	025	356110-0	026	356110-0	27 .	356110-0)28	356110-0	029	356110-	030
Analysis Requested	Field Id:	VZ Cell 6	Gl	VZ Cell 6	G2	VZ Cell 9	GI	VZ Cell 9	G2	VZ Cell 9	G3	VZ Cell	9 G4
Analysis Requesieu	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	,	SOIL	_
	Sampled:	Dec-16-09	13:05	Dec-16-09	13:15	Dec-16-09 1	3:25	Dec-16-09	13:35	Dec-16-09	13:45	Dec-16-09	13:55
Anions by E300	Extracted:								_				
	Analyzed:	Dec-18-09	18:37	Dec-18-09	18:37	Dec-18-09 1	8.37	Dec-18-09	18:37	Dec-18-09	18:37	Dec-18-09	18:37
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	ŘL	mg/kg	RL	mg/kg	RL
Chloride	Chils/RE.	ND	4.68	ND	4.68	9.30	4.98	5.13	4.61	10.7	4.53	19.9	4.90
BTEX by EPA 8021B	Extracted:	Dec-19-09	11:20	Dec-19-09	11:20	Dec-19-09 1	1:20	Dec-19-09	11:20	Dec-19-09	11:20	Dec-19-09	11:20
·	Analyzed:	Dec-21-09		Dec-21-09		Dec-21-09 (Dec-21-09		Dec-21-09		Dec-21-09	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene			0.0011		0.0011		0.0012		0.0011		0.0011.	ND	0.0012
Toluene .		ND	0.0022	ND	0.0022	ND	0.0023	ND	0.0022	ND	0.0022	ND	0.0023
Ethylbenzene		ND	0.0011	ND	0.0011	ND	0.0012	ND	0.0011	ND	0.0011	ND	0.0012
m,p-Xylenes		ND	0.0022	ND	0.0022	ND	0.0023	ND	0.0022	ND	0.0022	ND	0.0023
o-Xylene			0.0011		0.0011		0.0012		0.0011		0.0011	ND	0.0012
Total Xylenes			0.0011		0.0011		0.0012		0.0011		0.0011	ND	0.0012
Total BTEX		ND	0.0011	ND	0.0011	ND	0.0012	ND	0.0011	ND	1100.0	ND	0.0012
Percent Moisture	Extracted:												
	Analyzed:	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09 1	7:00	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09	17:00
,	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		10.2	1.00	10.3	1.00	15.7	1.00	8.94	1.00	7.22	1.00	14.3	1.00
TPH By SW8015 Mod	Extracted:	Dec-18-09	13:45	Dec-18-09	13:45	Dec-18-09 1	3:45	Dec-18-09	13:45	Dec-18-09	13:45	Dec-18-09	13:45
•	Analyzed:	Dec-20-09	06:31	Dec-20-09	06:57	Dec-20-09 (7:23	Dec-20-09	07:50	Dec-20-09	08:16	Dec-20-09	08:43
	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	16.7	ND	16.7	ND	17.8	ND	16.4	ND	16.1	ND	17.4
C12-C28 Diesel Range Hydrocarbons		ND	16.7	ND	16.7	ND	17.8	ND	16.4	ND	16.1	ND	17.4
C28-C35 Oil Range Hydrocarbons		ND	16.7	ND	16.7	ND	17.8	ND	16.4	ND	16.1	ND	17.4
Total TPH .		ND	16.7	ND	16.7	ND	17.8	ND	16.4	ND	16.1	ND	17.4

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Brent Barron, II Odessa Laboratory Manager



Southern Union Gas Services- Monahans, Monahans, TX

Project Name: Southern Union Landfarm

nelad:

Project Id: Southern Union Gas

Contact: Rose Slade

Project Location: Lea County, NM

Date Received in Lab: Thu Dec-17-09 05:04 pm

Report Date: 22-DEC-09

Project Manager: Brent Barron, II

· · · · · · · · · · · · · · · · · · ·					Project Manager:	Brent Barron, II	
· .	Lab Id:	356110-031	356110-032	356110-033	356110-034	356110-035	356110-036
Analysis Requested	Field Id:	VZ Cell 9 G5	VZ Cell 10 Gi	VZ Cell 10 G2	VZ Cell 10 G3	VZ Cell 10 G4	VZ Cell 15 G1
Anaiysis Kequesiea	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
•	Sampled:	Dec-16-09 14:05	Dec-16-09 14:15	Dec-16-09 14:25	Dec-16-09 14:35	Dec-16-09 14:45	Dec-16-09 14:55
Anions by E300	Extracted:	<u></u>					
	Analyzed:	Dec-18-09 18:37	Dec-18-09 18:37	Dec-18-09 18:37	Dec-18-09 18:37	Dec-18-09 23:44	Dec-18-09 23:44
·	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		27.5 4.80	43.9 4.51	9.70 4.56	. 173 4.53	ND 4.55	17.0 4.54
BTEX by EPA 8021B	Extracted:	Dec-19-09 11:20	Dec-19-09 11:20	Dec-19-09 11:20	Dec-19-09 11:20	Dec-19-09 11:20	Dec-19-09 11:20
	Analyzed:	Dec-21-09 06:04	Dec-21-09 06:28	Dec-21-09 06:51	Dec-21-09 07:14	Dec-21-09 07:38	Dec-21-09 08:01
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011
Toluene		ND 0.0023	ND 0.0021	ND 0.0022	ND 0.0022	ND 0.0022	ND 0.0022
Ethylbenzene		ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011
m,p-Xylenes		ND 0.0023	ND 0.0021	ND 0.0022	ND 0.0022	ND 0.0022	ND 0.0022
o-Xylene		ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011
Total Xylenes		ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011
Total BTEX		ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011
Percent Moisture	Extracted:						
	Analyzed:	Dec-18-09 17:00	Dec-18-09 17:00	Dec-18-09 17:00	Dec-18-09 17:00	Dec-18-09 17:00	Dec-18-09 17:00
,	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		12.5 1.00	6.84 1.00	7.81 1.00	7.34 1.00	7.74 1.00	7.59 1.00
TPH By SW8015 Mod	Extracted:	Dec-18-09 13:45	Dec-18-09 13:45	Dec-18-09 13:45	Dec-18-09 13:45	Dec-18-09 13:45	Dec-18-09 13:45
	Analyzed:	Dec-20-09 09:36	Dec-20-09 10:03	Dec-20-09 10:30	Dec-20-09 10:56	Dec-20-09 11:23	Dec-20-09 11:50
·	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 17.1	ND 16.0	ND 16.2	ND 16.1	ND 16.2	ND 16.2
C12-C28 Diesel Range Hydrocarbons		ND 17.1	ND 16.0	ŅD 16.2	ND 16.1	ND 16.2	ND 16.2
C28-C35 Oil Range Hydrocarbons		ND 17.1	ND 16.0	ND 16.2	ND 16.1	ND 16.2	ND 16.2
Total TPH		ND 17.1	ND 16.0	ND 16.2	ND 16.1	ND 16.2	ND 16.2

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Brent Barron, II Odessa Laboratory Manager



Southern Union Gas Services- Monahans, Monahans, TX

Project Name: Southern Union Landfarm

nelad

Project Id: Southern Union Gas

Contact: Rose Slade

Project Location: Lea County, NM

Date Received in Lab: Thu Dec-17-09 05:04 pm

Report Date: 22-DEC-09

Project Manager: Brent Barron, II

							Project Ma			
Lab Id:	356110-0	037	356110-0	38	356110-0	39	356110-	040		
Field Id:	VZ Cell 1	I G1	VZ Cell 1	I G2	VZ Cell 12	2 G1	VZ Cell I	3 G1		
Depth:										
Matrix:	SOIL		SOIL		SOIL		SOIL			
Sampled:	Dec-16-09	15:05	Dec-16-09	15:15	Dec-16-09, 1	15:25	Dec-16-09	15:35		
Extracted:										
Analyzed:	Dec-18-09	23:44	Dec-18-09	23:44	Dec-18-09 2	23:44	Dec-18-09	23:44		
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
	ND	4.83	9.78	4.67	14.8	9.22	81.4	4.42		
Extracted:	Dec-19-09	11:20	Dec-19-09	11:20	Dec-19-09	11:20	Dec-19-09	11:20		
Analyzed:	Dec-21-09	08:25	Dec-21-09	09:28	Dec-21-09 (9:52	Dec-21-09	10:15		
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		•
	ND	0.0012	ND	0.0011	ND	0.0011	ND	0.0010		
	ND	0.0023	ND	0.0022	ND	0.0022	ND	0.0021		
			ND	0.0011	ND	0.0011	ND	0.0010		
,	ND	0.0023	ND	0.0022	ND	0.0022	ND	0.0021		
			ND	0.0011	ND	0.0011	ND	0.0010		
	ND	0.0012	ND	0.0011.	ND	0.0011	ND	0.0010		
	ND	0.0012	ND	0.0011	ND	1100.0	ND	0.0010		
Extracted:										
Analyzed:	Dec-18-09	17:00	Dec-18-09	17:00	Dec-18-09 1	7:00	Dec-18-09	17:00		
Units/RL:	%	RL	%	RL	%	RL	% -	RL		
	13.0	1.00	10.1	1.00	8.89	1.00	4.88	1.00		
Extracted:	Dec-18-09	13:45	Dec-18-09	13:45	Dec-18-09 1	13:45	Dec-18-09	13:45		
Analyzed:	Dec-20-09	12:17	Dec-20-09	12:44	Dec-20-09 1	13:11	Dec-20-09	13:38		
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
	ND	17.2	ND	16.7	ND	16.4	ND	15.7		
	ND	17.2	ND	16.7	ND	16.4	ND	15.7		
	ND	17.2	· ND	16.7	ND	16.4	ND	15.7		
	ND	17.2	ND	16.7	ND	16.4	. ND	15.7		
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Analyzed: Analyzed: Analyzed: Analyzed:	Field Id:	Field Id: Depth: Matrix: SOIL Sampled: Dec-16-09 15:05 Extracted: Analyzed: Units/RL: Dec-18-09 23:44 Units/RL: mg/kg RL ND 4.83 Extracted: Dec-19-09 11:20 Analyzed: Dec-21-09 08:25 Units/RL: mg/kg RL ND 0.0012 Extracted: Analyzed: Dec-18-09 17:00 Units/RL: % RL 13.0 1.00 Extracted: Dec-18-09 13:45 Analyzed: Dec-20-09 12:17 Units/RL: mg/kg RL ND 17.2 ND 17.2 ND 17.2	Field Id: VZ Cell 11 G1 VZ Cell 1 Depth: Matrix: SOIL SOIL Sampled: Dec-16-09 15:05 Dec-16-09 Extracted: Analyzed: Dec-18-09 23:44 Dec-18-09 Units/RL: mg/kg RL mg/kg Extracted: Dec-19-09 11:20 Dec-19-09 Analyzed: Dec-21-09 08:25 Dec-21-09 0 Units/RL: mg/kg RL mg/kg ND 0.0012 ND ND 0.0023 ND ND 0.0012 ND Extracted: Analyzed: Dec-18-09 17:00 Dec-18-09 Units/RL: % RL % Analyzed: Dec-18-09 13:45 Dec-18-09 Analyzed: Dec-20-09 12:17 Dec-20-09 Units/RL:	Field Id: VZ Cell 11 G1 VZ Cell 11 G2 Depth: Matrix: SOIL SOIL Sampled: Dec-16-09 15:05 Dec-16-09 15:15 Extracted: Analyzed: Dec-18-09 23:44 Dec-18-09 23:44 Units/RL: mg/kg RL mg/kg RL Extracted: Dec-19-09 11:20 Dec-19-09 11:20 Dec-19-09 11:20 Analyzed: Dec-21-09 08:25 Dec-21-09 09:28 Units/RL: mg/kg RL mg/kg RL ND 0.0012 ND 0.0011 ND 0.0022 ND 0.0023 ND 0.0022 ND 0.0011 ND 0.0012 ND 0.0011 ND 0.0012 ND 0.0012 ND 0.0011 ND 0.0011 Extracted: Analyzed: Dec-18-09 17:00 Dec-18-09 17:00 Dec-18-09 17:00 Extracted: Dec-18-09 13:45 Dec-18-09 13:45 Dec-18-09 13:45 Dec-20-09 12:44 Units/RL: mg/kg RL MD </td <td> Field Id:</td> <td>Field Id: VZ Cell 11 G1 VZ Cell 12 G1 Matrix: SOIL SOIL<</td> <td>Field Id: VZ Cell 11 G1 VZ Cell 11 G2 VZ Cell 12 G1 VZ Cell 1 Depth: Matrix: SOIL SOI</td> <td>Field Id: VZ Cell 11 G1 VZ Cell 11 G2 VZ Cell 12 G1 VZ Cell 13 G1 Depth: Matrix: SOIL <th< td=""><td> Field Id:</td></th<></td>	Field Id:	Field Id: VZ Cell 11 G1 VZ Cell 12 G1 Matrix: SOIL SOIL<	Field Id: VZ Cell 11 G1 VZ Cell 11 G2 VZ Cell 12 G1 VZ Cell 1 Depth: Matrix: SOIL SOI	Field Id: VZ Cell 11 G1 VZ Cell 11 G2 VZ Cell 12 G1 VZ Cell 13 G1 Depth: Matrix: SOIL SOIL <th< td=""><td> Field Id:</td></th<>	Field Id:

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Brent Barron, II Odessa Laboratory Manager



Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte.

 The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- **BRL** Below Reporting Limit.
- **RL** Reporting Limit
- * Outside XENCO's scope of NELAC Accreditation.

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Project Name: Southern Union Landfarm

Work Orders: 356110,

Sample: 545993-1-BKS / BKS

Project ID: Southern Union Gas

Lab Batch #: 786542

Matrix: Solid Batch:

Units: mg/kg Date Analyzed: 12/20/09 07:15	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1,4-Difluorobenzene	0.0301	0.0300	100	80-120			
4-Bromofluorobenzene	0.0284	0.0300	95	80-120			

Lab Batch #: 786542

Sample: 545993-1-BSD / BSD

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 12/20/09 07:38	SU	RROGATE R	ECOVERY	STUDY	•
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0294	0.0300	98	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

Lab Batch #: 786542

Sample: 545993-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 12/20/09 13:08		SURROGATE RECOVERY STUDY						
BTEX by EPA 802	1B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes				[D]				
1,4-Difluorobenzene		0.0277	0.0300	92	80-120			
4-Bromofluorobenzene		0.0288	0.0300	96	80-120			

Lab Batch #: 786542

Sample: 356110-001 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 13:32		SURROGATE RECOVERY STUDY						
втех	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
	Analytes			[D]				
1,4-Difluorobenzene		0.0272	0.0300	· 91	80-120			
4-Bromofluorobenzene		0.0253	0.0300	84	80-120			

Lab Batch #: 786542

Sample: 356110-002 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 13:56	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorobenzene	0.0272	0.0300	91	80-120			
4-Bromofluorobenzene	0.0262	0.0300	87	80-120			

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders: 356110,

Lab Batch #: 786542

Sample: 356110-003 / SMP

Project ID: Southern Union Gas

Matrix: Soil Batch:

Units: mg/kg Date Analyzed: 12/20/09 14:20 SURROGATE RECOVERY S				STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0270	0.0300	90	80-120	
4-Bromofluorobenzene	0.0260	0.0300	87	80-120	

Lab Batch #: 786542

Sample: 356110-004 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 14:43	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			{D}				
1,4-Difluorobenzene	0.0272	0.0300	91	80-120			
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	•		

Lab Batch #: 786542

Sample: 356110-005 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 15:07	SU	RROGATE RI	ECOVERY S	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0270	0.0300	90	80-120	
4-Bromofluorobenzene	0.0249	0.0300	83 .	80-120	

Lab Batch #: 786542

Sample: 356110-006 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 15:31	SU	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			{ D }		
1,4-Difluorobenzene	0.0268	0.0300	89	80-120	
4-Bromofluorobenzene	0.0258	0.0300	86	80-120	

Lab Batch #: 786542

Sample: 356110-007 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09) 15:55 SU	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
Analytes			<u> </u>					
1,4-Difluorobenzene	0.0278	0.0300	93	80-120				
4-Bromofluorobenzene	0.0269	0.0300	90	80-120				

^{*} Surrogate outside of Laboratory QC limits

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

^{***} Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Project Name: Southern Union Landfarm

Work Orders: 356110,

Lab Batch #: 786542

Sample: 356110-008 / SMP

Project ID: Southern Union Gas

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 16:18	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found - [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0279	0.0300	93	80-120		
4-Bromofluorobenzene	0.0269	0,0300	90	80-120		

Lab Batch #: 786542

Sample: 356110-009 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 16:42	SURROGATE RECOVERT STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes	11	'-'	[D]	,		
1,4-Difluorobenzene	0.0273	(0.0300	91	80-120		
4-Bromofluorobenzene	0.0264	0.0300	88	80-120		

Lab Batch #: 786542

Sample: 356110-010 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 17:06	SU	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0266	0.0300	89	80-120	
4-Bromofluorobenzene	0.0250	0.0300	83	80-120	

Lab Batch #: 786542

Sample: 356110-011 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/20/09 18:17	SURROGATE RECOVERY STUDY				
ВТЕ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0276	0.0300	92	80-120	
4-Bromofluorobenzene		0.0285	0.0300	95	80-120	

Lab Batch #: 786542

Sample: 356110-012 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/20/09 18:41	SURROGATE RECOVERY STUDY					
втех	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
	Analytes			[D]	:		
1,4-Difluorobenzene		0.0272	0.0300	91	80-120		
4-Bromofluorobenzene		0.0267	0.0300	89	80-120		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders: 356110,

Lab Batch #: 786542

Sample: 356110-013 / SMP

Project ID: Southern Union Gas

Matrix: Soil Batch:

Units: mg/kg Date Analyzed: 12/20/09 19:04 SURROGATE RECOVERY STUDY						
втех	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
•	Analytes	11		[D]		
1,4-Difluorobenzene		0.0274	0.0300	91	80-120	
4-Bromofluorobenzene		0.0265	0.0300	88	80-120	

Lab Batch #: 786542

Sample: 356110-014 / SMP

Batch: 1

Matrix: Soil

Data Amalamada 12/20/00 10:29

SURROGATE RECOVERY STUDY

Units: mg/kg Date Analyzed: 12/20/09 19:28	SURROGATE RECOVERT STODI				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0278	0.0300	93	80-120	

Lab Batch #: 786542

Sample: 356110-015 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 19:51	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0271	0.0300	90	80-120	
4-Bromofluorobenzene	0.0274	0.0300	91	80-120	

Lab Batch #: 786542

Sample: 356110-016 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 20:15 SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

Lab Batch #: 786542

Sample: 356110-017 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 20:38	SU	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes	·		[D] _.			
I,4-Difluorobenzene	0.0276	0.0300	92	80-120		
4-Bromofluorobenzene	0.0274	0.0300	91	80-120		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders: 356110,

Sample: 356110-018 / SMP

Project ID: Southern Union Gas

Lab Batch #: 786542

Matrix: Soil Batch:

Units: mg/kg Date Analyzed: 12/20/09 21:02	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	- 0.0266	0.0300	89	80-120	
4-Bromofluorobenzene	0.0259	0.0300	86	80-120	

Lab Batch #: 786542

Sample: 356110-019 / SMP

Batch: 1

Matrix: Soil

Linite: mo/ko

Date Analyzed: 12/20/09 21-26

SURROGATE RECOVERY STUDY

Units: mg/kg Date Analyzed: 12/20/09 21:26	SCHROGHIE RECOVERT STODI				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0267	0.0300	89	80-120	
4-Bromofluorobenzene	0.0260	0.0300	87	80-120	

Lab Batch #: 786542

Sample: 356110-020 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/20/09 21:49	SURROGATE RECOVERY STUDY				
ВТЕХ	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes	ļ		(D)		
1,4-Difluorobenzene		0.0274	0.0300	91	80-120	
4-Bromofluorobenzene		0.0269	0.0300	90	80-120	

Lab Batch #: 786542

Sample: 356110-001 S/MS

Batch: 1

Matrix: Soil

Units: mg/kg Da	ite Analyzed: 12/20/09 22:13	SU	RROGATE RE	COVERY	STUDY	
BTEX by E		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Anal	ytes			[D]		
1,4-Difluorobenzene		0.0306	0.0300	102	80-120	
4-Bromofluorobenzene		0.0292	0.0300	97 -	80-120	

Lab Batch #: 786542

Sample: 356110-001 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 22:37	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes			121		
I,4-Difluorobenzene	0.0310	0.0300	103	80-120	
4-Bromofluorobenzene	0.0284	0.0300	95	80-120	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders: 356110,

Project ID: Southern Union Gas

Lab Batch #: 786549

Sample: 545998-1-BKS / BKS

Matrix: Solid Batch: 1

Units: mg/kg Date Analyzed: 12/20/09 23:24	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes	11	1-,	[D]		
1,4-Difluorobenzene	0.0305	0.0300	102	80-120	
4-Bromofluorobenzene	0.0275	0.0300	92	80-120	

Lab Batch #: 786549

Sample: 545998-1-BSD / BSD

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 12/20/09 23:48 SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D] .		
1,4-Difluorobenzene	0.0262	0.0300	87	80-120	
4-Bromofluorobenzene	0.0243	0.0300	81	80-120	

Lab Batch #: 786549

Sample: 545998-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 12/21/09 00:58	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
I,4-Difluorobenzene	0.0282	0.0300	94	80-120			
4-Bromofluorobenzene	0.0288	0.0300	96	80-120			

Lab Batch #: 786549

Sample: 356110-021 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 01:22	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1,4-Difluorobenzene	0.0271	0.0300	90	80-120			
4-Bromofluorobenzene	0.0264	0.0300	88	80-120			

Lab Batch #: 786549

Sample: 356110-022 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/21/09 01:46	SURROGATE RECOVERY STUDY				
BTE	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0272	0.0300	91	80-120	<u>.</u>
4-Bromofluorobenzene		0.0273	0.0300	91	80-120	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution

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



Project Name: Southern Union Landfarm

Work Orders: 356110,

Sample: 356110-023 / SMP

Project ID: Southern Union Gas

Lab Batch #: 786549

Matrix: Soil Batch:

Units: mg/kg Date Analyzed: 12/21/09 02:09	SU	RROGATE R	ECOVERY :	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R.	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0271	0.0300	90	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

Lab Batch #: 786549

Sample: 356110-024 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 02:33	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes	11	121	[D]	/•••			
I,4-Difluorobenzene	0.0272	0.0300	91	80-120			
4-Bromofluorobenzene	0.0272	0.0300	91	80-120			

Lab Batch #: 786549

Sample: 356110-025 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 02:56	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
Analytes			""				
1,4-Difluorobenzene	0.0278	0.0300	93	80-120			
4-Bromofluorobenzene	0.0281	0.0300	94	80-120			

Lab Batch #: 786549

Sample: 356110-026 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 03:20	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1,4-Difluorobenzene	0.0280	0.0300	93	80-120			
4-Bromofluorobenzene	0.0276	0.0300	92	80-120	·		

Lab Batch #: 786549

Sample: 356110-027 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/21/09 03:43	SURROGATE RECOVERY STUDY				
втех	X by EPA 8021B Analytes	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		0.0271	0.0300	90	80-120	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders: 356110,

Project ID: Southern Union Gas

Lab Batch #: 786549

Sample: 356110-028 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 04:07	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes		·	[D]			
1,4-Difluorobenzene	0.0275	0.0300	92	80-120	,	
4-Bromofluorobenzene	0.0272	0.0300	91	80-120		

Lab Batch #: 786549

Sample: 356110-029 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 04:30	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1,4-Difluorobenzene	0.0267	0.0300	89	80-120			
4-Bromofluorobenzene	0.0262	0.0300	87	80-120			

Lab Batch #: 786549

Sample: 356110-030 / SMP

Batch: 1

1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 04:54	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1,4-Difluorobenzene	0.0272	0.0300	91	80-120			
4-Bromofluorobenzene	0.0265	0.0300	88	80-120			

Lab Batch #: 786549

Sample: 356110-031 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 06:04	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0271	0.0300	90	80-120		
4-Bromofluorobenzene	0.0266	0.0300	89	80-120		

Lab Batch #: 786549

Sample: 356110-032 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 06:28	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]	1		
1,4-Difluorobenzene	0.0273	0.0300	. 91	80-120		
4-Bromofluorobenzene	0.0271	0.0300	90	80-120		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders: 356110,

Lab Batch #: 786549

Sample: 356110-033 / SMP

Project ID: Southern Union Gas

Matrix: Soil Batch: 1

SURROGATE RECOVERY STUDY Units: mg/kg Date Analyzed: 12/21/09 06:51 Control Amount True BTEX by EPA 8021B Found Amount Recovery Limits Flags %R [B] %R [A] [D] Analytes 1,4-Difluorobenzene 0.02720.0300 91 80-120 4-Bromofluorobenzene 0.0260 0.0300 87 80-120

Lab Batch #: 786549

Sample: 356110-034 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 07:	14 S	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes		•	[D]				
1,4-Difluorobenzene	0.0267	0.0300	89	80-120			
4-Bromofluorobenzene	0.0263	0.0300	- 88	80-120			

Lab Batch #: 786549

Sample: 356110-035 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 07:38	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found . [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			{D}			
1,4-Difluorobenzene	0.0268	0.0300	89	80-120		
4-Bromofluorobenzene	0.0267	0.0300	89	80-120		

Lab Batch #: 786549

Sample: 356110-036 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 08:01	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	'Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes	([[D]			
1,4-Difluorobenzene	0.0273	. 0.0300	91	80-120		
4-Bromofluorobenzene	0.0271	0.0300	90	80-120		

Lab Batch #: 786549

Sample: 356110-037 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/21/09 08:25	SURROGATE RECOVERY STUDY					
ВТЕ	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
	Analytes			[D]			
1,4-Difluorobenzene		0.0272	0.0300	91	80-120		
4-Bromofluorobenzene		0.0270	0.0300	90	80-120		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders: 356110,

Project ID: Southern Union Gas

Lab Batch #: 786549

Sample: 356110-038 / SMP

Matrix: Soil Batch:

Units: mg/kg Date Analyzed: 12/21/09 09:28	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes	",	(=)	[D]			
1,4-Difluorobenzene	0.0265	0.0300	88	80-120		
4-Bromofluorobenzene	0.0276	0.0300	92	80-120		

Lab Batch #: 786549

Sample: 356110-039 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 09:52 SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0273	0.0300	91	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

Lab Batch #: 786549

Sample: 356110-040 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 10:15	SU	RROGATE RI	ECOVERY	STUDY	
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0274	0.0300	91	80-120	

Lab Batch #: 786549

Sample: 356110-040 S / MS

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 10:39 SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0316	0.0300	105	80-120	
4-Bromofluorobenzene	0.0288	0.0300	96	80-120	

Lab Batch #: 786549

Sample: 356110-040 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/21/09 11:03	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluorobenzene	0.0315	0.0300	105	80-120		
4-Bromofluorobenzene	0.0288	0.0300	96	80-120		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders: 356110,

Lab Batch #: 786507

Sample: 545957-1-BKS / BKS

Project ID: Southern Union Gas

Matrix: Solid Batch: 1

SURROGATE RECOVERY STUDY Date Analyzed: 12/19/09 13:39 Units: mg/kg Control TPH By SW8015 Mod Amount True Found Amount Recovery Limits Flags [B] %R %R [A] [D] Analytes I-Chlorooctane 96.5 97 70-135 99.5 o-Terphenyl 44.2 49.8 70-135 89

Lab Batch #: 786507

Sample: 545957-1-BSD / BSD

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 12/19/09 14:06	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
I-Chlorooctane	94.6	99.8	95	70-135		
o-Terphenyl	43.5	49.9	87	70-135		

Lab Batch #: 786507

Sample: 545957-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 12/19/09	14:32 SU	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctane	77.7	99.6	78	70-135			
o-Terphenyl	45.9	49.8	92	70-135			

Lab Batch #: 786507

Sample: 356110-001 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/19/09 14:59	Su	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	75.5	99.5	76	70-135	
o-Terphenyl ·	44.9	49.8	90	70-135	

Lab Batch #: 786507

Sample: 356110-002 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Units: mg/kg Date Analyzed: 12/19/09 15:26		SURROGATE RECOVERY STUDY					
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane	Analytes	76.0	99.5	76	70-135			
o-Terphenyl		44.9	49.8	90	70-135			

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders: 356110,

Project ID: Southern Union Gas

Lab Batch #: 786507

Sample: 356110-003 / SMP

Batch: | Matrix: Soil

Units: mg/kg Date Analyzed: 12/19/09 15:53	SU	RROGATE R	RECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	74.7	99.7	75	70-135	
o-Terphenyl	44.1	49.9	88	70-135	

Lab Batch #: 786507

Sample: 356110-004 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/19/09 16:20	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod Analytes	Amount Found [A]	Found Amount Recovery [A] [B] %R [D]	Control Limits %R	Flags	
I-Chlorooctane	77.0	99.7	77	70-135	
o-Terphenyl	45.6	49.9	91	70-135	

Lab Batch #: 786507

Sample: 356110-005 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/19/09 16:46	SURROGATE RECOVERY STUDY					
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	,	86.9	99.7	87	70-135		
o-Terphenyl		50.0	49.9	100	70-135		

Lab Batch #: 786507

Sample: 356110-006 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/19/0	9 17:13	SURROGATE R	RECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes		İ	[D]		
I-Chlorooctane	75.3	99.5	76	70-135	
o-Terphenyl	43.9	49.8	88	70-135]

Lab Batch #: 786507

Sample: 356110-007 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
ļ	Analytes			[D]		
1-Chlorooctane		74.8	99.9	75	70-135	
o-Terphenyl		44.0	50.0	88	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders: 356110,

Project ID: Southern Union Gas

Lab Batch #: 786507

Sample: 356110-008 / SMP

Matrix: Soil Batch: 1

Units: mg/kg	Date Analyzed: 12/19/09 18:06	SU	SURROGATE RECOVERY STUDY				
TPH By S	W8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
An	alytes	, ,	. ,	[D]			
1-Chlorooctanc		72.7	99.7	73	70-135		
o-Terphenyl		43.2	49.9	87	70-135		

Lab Batch #: 786507

Sample: 356110-009 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
ТРН Ву	/ SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
A	Analytes	11	(-1	[D]	,,,,,	
1-Chlorooctane		76.2	100	76	70-135	
o-Terphenyl		45.2	50.0	90	70-135	

Lab Batch #: 786507

Sample: 356110-010 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/19/09 19:00	SU	RROGATE R	ECOVERY	STUDY			
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
I-Chlorooctane		82.2	100	82	70-135			
o-Terphenyl		. 48.0	50.0	96	70-135			

Lab Batch #: 786507

Sample: 356110-011 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/19/09 19:54	SU	RROGATE R	ECOVERY	STUDY	
	sy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]	'	
1-Chlorooctane		75.5	100	76	70-135	
o-Terphenyl		44.5	50.0	89	70-135	

Lab Batch #: 786507

Sample: 356110-012 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/19/09 20:20	SURROGATE RECOVERY STUDY				
	y SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		ļ				
1-Chlorooctane		78.0	100	78	70-135	
o-Terphenyl		45.5	50.0	91	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders : 356110,

Sample: 356110-013 / SMP

Project ID: Southern Union Gas

Lab Batch #: 786507

Sample: 330110-013 / SMIP

Batch: | Matrix: Soil

Units: mg/kg Date Analyzed: 12/19/09 20:47 SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	75.3	99.5	76	70-135	
o-Terphenyl .	44.2	49.8	89	70-135	

Lab Batch #: 786507

Sample: 356110-014 / SMP

Batch:

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/19/09 21:14	SURROGATE RECOVERY STUDY						
ТРН	By SW8015 Mod	· Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
	Analytes			[D]				
1-Chlorooctane		76.4	99.5	77	70-135			
o-Terphenyl		44.8	49.8	90	70-135			

Lab Batch #: 786507

Sample: 356110-015 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/19/09 21:41	SU	RROGATE RI	ECOVERY	STUDY	
ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes			ļ		
1-Chlorooctane		78.7	100	79	70-135	
o-Terphenyl	•	46.2	50.0	92	70-135	

Lab Batch #: 786507

Sample: 356110-016 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/19/09 22:07	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	78.4	99.8	79	70-135	
o-Terphenyl	46.0	49.9	92	70-135	

Lab Batch #: 786507

Sample: 356110-017 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/19/09 22:34	SU	RROGATE RI	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes	, ,	' '	[D]		
1-Chlorooctane	78.1	99.8	78	70-135	
o-Terphenyl	45.4	49.9	91	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders: 356110,

Project ID: Southern Union Gas

Lab Batch #: 786507

Sample: 356110-018 / SMP

Matrix: Soil Batch:

Units: mg/kg	Date Analyzed: 12/19/09 23:00	SURROGATE RECOVERY STUDY					
ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
	Analytes			[D]			
I-Chlorooctane		78.0	99.6	78	70-135		
o-Terphenyl		45.6	49.8	92	70-135		

Lab Batch #: 786507

Sample: 356110-019 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/19/09 23:27	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			{ D }			
I-Chlorooctanc	. 78.4	100	78	70-135		
o-Terphenyl .	45.6	50.0	91	70-135	·	

Lab Batch #: 786507

Sample: 356110-020 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/19/09 23:54 SURROGATE RECOV					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes			(6)		
I-Chlorooctane	81.8	100	82	70-135	
o-Terphenyl .	47.4	50.0	95	70-135	

Lab Batch #: 786507

Sample: 356110-001 S / MS

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/20/09 00:20	0 SURROGATE RECOVERY STUDY				
ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
I-Chlorooctanc		93.0	99.9	93	70-135	
o-Terphenyl		42.8	50.0	86	70-135	

Lab Batch #: 786507

Sample: 356110-001 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 00:47	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.8	99.5	98	70-135	
o-Terphenyl	44.9	49.8	90	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders: 356110,

Lab Batch #: 786512

Sample: 545961-1-BKS / BKS

Project ID: Southern Union Gas

Matrix: Solid

SURROGATE RECOVERY STUDY Units: mg/kg Date Analyzed: 12/20/09 03:25 Amount True Control TPH By SW8015 Mod Found Amount Recovery Limits Flags [B] %R %R [A] [D] **Analytes** I-Chlorooctane 90 89.3 99.7 70-135 o-Terphenyl 40.4 49.9 81 70-135

Lab Batch #: 786512

Sample: 545961-1-BSD / BSD

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 12/20/09 03:52 SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	92.0	99.7	92	70-135	
o-Terphenyl	42.0	49.9	84	70-135	

Lab Batch #: 786512

Sample: 545961-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 12/20/09 04:18 SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctanc	79.0	100	79	70-135	
o-Terphenyl	45.7	50.0	91	70-135	

Lab Batch #: 786512

Sample: 356110-021 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20	/09 04:45 S	URROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	72.1	99.5	72	70-135	
o-Terphenyl	42.7	49.8	86	70-135	

Lab Batch #: 786512

Sample: 356110-022 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/20/09 05:11	SURROGATE RECOVERY STUDY				
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount {B}	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		85.4	100	85	70-135	
o-Terphenyl		48.9	50.0	98	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders: 356110,

Project ID: Southern Union Gas

Lab Batch #: 786512

Sample: 356110-023 / SMP

Batch: Matrix: Soil

Units: mg/kg	Date Analyzed: 12/20/09 05:38	SURROGATE RECOVERY STUDY					
ТРН В	y SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
	Analytes	11	,-,	[D]			
1-Chlorooctane		76.9	99.9	77	70-135		
o-Terphenyl		45.1	50.0	90	70-135		

Lab Batch #: 786512

Sample: 356110-024 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 06:04 SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes	[]	[]	[D]	,,,,	
1-Chlorooctane	76.7	100	77	70-135	
o-Terphenyl	45.0	50.0	90	70-135	

Lab Batch #: 786512

Sample: 356110-025 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg D	SU	RROGATE RI	ECOVERY	STUDY		
TPH By SV	V8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
. Ana	lytes		, ,	[D]		
1-Chlorooctanc		78.1	100	78	70-135	
o-Terphenyl		44.7	50.0	89	70-135	

Lab Batch #: 786512

Sample: 356110-026 / SMP

Batch:

Matrix: Soil

Units: mg/kg	kg Date Analyzed: 12/20/09 06:57 SURROGATE RECOVERY STUDY						
ТРН Ву S	W8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Ans	alytes			[D]			
I-Chlorooctane		77.3	100	. 77	70-135		
o-Terphenyl		45.3	50.0	91	70-135		

Lab Batch #: 786512

Sample: 356110-027 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 07:23	SU	RROGATE RI	ECOVERY S	STUDY	
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	80.9	100	81	70-135	
o-Terphenyl	46.6	50.0 ·	93	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders: 356110,

Project ID: Southern Union Gas

Lab Batch #: 786512

Sample: 356110-028 / SMP

Batch: Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 07:50 SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes		}	[D]		
1-Chlorooctane	75.0	99.8	75	70-135	
o-Terphenyl	44.2	49.9	89	70-135	

Lab Batch #: 786512

Sample: 356110-029 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/20/09 08:16	SURROGATE RECOVERY STUDY					
	SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
A	analytes			[D]			
1-Chlorooctane		76.8	99.5	77	70-135		
o-Terphenyl		44.9	49.8	90	70-135		

Lab Batch #: 786512

Sample: 356110-030 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 08:43	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
I-Chlorooctane	73.0	· 99.5	73	70-135		
o-Terphenyl ·	43.2	49.8	87	70-135		

Lab Batch #: 786512

Sample: 356110-031 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 09:36	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
I-Chlorooctane	73.8	99.9	74	70-135	
o-Terphenyl	43.1	50.0	86	70-135	

Lab Batch #: 786512

Sample: 356110-032 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 10:03	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
I-Chlorooctane	70.2	99.5	71	70-135	
o-Terphenyl	40.9	49.8	82	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders : 356110,

Project ID: Southern Union Gas

Lab Batch #: 786512

Sample: 356110-033 / SMP

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 10:30	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes		'.	[D]		
1-Chlorooctane	75.1	99.5	75	70-135	***
o-Terphenyl	43.9	49.8	88	70-135	

Lab Batch #: 786512

Sample: 356110-034 / SMP

Batch: 1

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 10:56	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
I-Chlorooctane	79.5	99.5	80	70-135		
o-Terphenyl	46.4	49.8	93	70-135		

Lab Batch #: 786512

Sample: 356110-035 / SMP

Batch: 1

Matrix: Soil

	54 p							
Units: mg/kg	Date Analyzed: 12/20/09 11:23	SU	RROGATE R	ECOVERY	STUDY			
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
I-Chlorooctane		75.6	99.5	76	70-135			
o-Terphenyl		44.5	49.8	89	70-135			

Lab Batch #: 786512

Sample: 356110-036 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 11:50	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
I-Chlorooctane	80.7	100	81	70-135	
o-Terphenyl	46.3	50.0	93	70-135	

Lab Batch #: 786512

Sample: 356110-037 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 12:17	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	76.2	100	76	70-135	•
o-Terphenyl					
0-1 cipiloliyi	44.8	50.0	90	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Project Name: Southern Union Landfarm

Work Orders: 356110,

Lab Batch #: 786512

Sample: 356110-038 / SMP

Project ID: Southern Union Gas

Matrix: Soil Batch:

Units: mg/kg Date Analyzed: 12/20/09 12:44	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D] .		
1-Chlorooctane	79.3	99.9	79	70-135	
o-Terphenyl	46.2	50.0	92	70-135	

Lab Batch #: 786512

Sample: 356110-039 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 13:11	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount (B)	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	77.1	99.9	.77	70-135		
o-Terphenyl	44.9	50.0	90.	70-135		

Lab Batch #: 786512

Sample: 356110-040 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 13:38	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
I-Chlorooctanc	74.8	99.5	75	70-135		
o-Terphenyl	43.2	49.8	87	70-135		

Lab Batch #: 786512

Sample: 356110-030 S / MS

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 14:05	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	90.8	100	91	70-135	
o-Terphenyl	41.7	50.0	83	70-135	

Lab Batch #: 786512

Sample: 356110-030 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/20/09 14:32	SURROGATE RECOVERY STUDY						
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]	, ·			
I-Chlorooctane	95.8	99.7	٠96	70-135			
o-Terphenyl	43.8	49.9	88	70-135			

^{*.} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Blank Spike Recovery



Project Name: Southern Union Landfarm

Work Order #: 356110

Project ID:

Southern Union Gas

Lab Batch #: 786498

Sample: 786498-1-BKS

Matrix: Solid

Date Analyzed: 12/18/2009

Date Prepared: 12/18/2009

Analyst: LATCOR

Reporting Units: mg/kg	g/kg Batch #: 1 BLANK /BLANK SPI					
Anions by E300	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags
Analytes	[A]	[B]	Result [C]	%R [D]	' %R	
Chloride	ND	11.0	11.1	101	75-125	

Lab Batch #: 786505

Sample: 786505-1-BKS

Matrix: Solid

Date Analyzed: 12/18/2009

Date Prepared: 12/18/2009

Analyst: LATCOR

Reporting Units: mg/kg	Batch #:	BLANK/I	BLANK /BLANK SPIKE RECOVERY S							
Anions by E300	Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags				
Analytes			[C]	[D]	ļ					
Chloride	ND	10.0	10.1	101	75-125					

Lab Batch #: 786509

Sample: 786509-1-BKS

Blank

Result A

ND

Matrix: Solid

Date Analyzed: 12/18/2009

Anions by E300

Analytes

Date Prepared: 12/18/2009

Analyst: LATCOR

Reporting Units: mg/kg

Chloride

Batch #:

ĺ	Spike Blank Blank Control										
	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags						
	10.0	9.32	93	75-125							

Blank Spike Recovery [D] = 100*[C]/[B] All results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit



BS / BSD Recoveries



Project Name: Southern Union Landfarm

Work Order #: 356110

Analyst: ASA

Date Prepared: 12/19/2009

Project ID: Southern Union Gas

Date Analyzed: 12/20/2009

Matrix: Solid

Lab Batch ID: 786542

Sample: 545993-1-BKS

Batch #: 1

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Units: mg/kg	BLANK/BLANK STIKE / BLANK STIKE DUFLICATE RECOVERT STUDY										
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Benzene	ND	0.1000	0.1111	111	0.1	0.1059	106	5	70-130	35	
Toluene	ND	0.1000	0.1140	114	0.1	0.1098	110	4	70-130	35	
Ethylbenzene	ND	0.1000	0.1128	113	0.1	0.1081	108	.4	71-129	35	
m,p-Xylenes	ND	0.2000	0.2502	125	0.2	0.2399	120	4	70-135	35	
o-Xylene	ND	0.1000	0.1209	121	0.1	0.1165	117	4	71-133	35	

Analyst: ASA

Date Prepared: 12/19/2009

Date Analyzed: 12/20/2009

Lab Batch ID: 786549

Sample: 545998-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Benzene	ND	0.1000	0.1045	105	0.1	0.1019	102	3	70-130	35	
Toluene	ND	0.1000	0.1068	107	0.1	0.1059	106	1	70-130	35	
Ethylbenzene	ND	0.1000	0.1044	104	0.1	0.1042	104	0	71-129	35	
m,p-Xylenes	ND	0.2000	0.2268	113	0.2	0.2221	111	2	70-135	35	
o-Xylene	ND	0.1000	0.1122	112	0.1	0.1110	111	1	71-133	35	

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



BS / BSD Recoveries



Project Name: Southern Union Landfarm

Work Order #: 356110

Analyst: BEV

Date Prepared: 12/18/2009

Project ID: Southern Union Gas

Date Analyzed: 12/19/2009

Lab Batch ID: 786507

Sample: 545957-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg	BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
C6-C12 Gasoline Range Hydrocarbons	ND	995	940	94	998	931	93	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	995	766	77	998	753	75	2	70-135	35	

Analyst: BEV

Date Prepared: 12/18/2009

Date Analyzed: 12/20/2009

Lab Batch ID: 786512

Sample: 545961-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	997	910	91	997	929	93	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND .	997	869	87	997	757	76	14	70-135	35	

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



Form 3 - MS Recoveries

Project Name: Southern Union Landfarm



Work Order #: 356110

Lab Batch #: 786498

Date Analyzed: 12/18/2009

Date Prepared: 12/18/2009

Project ID: Southern Union Gas

Analyst: LATCOR

QC-Sample ID: 356011-002 S

Batch #:

Matrix: Soil

Reporting Units: mg/kg MATRIX SPIKE RECOVERY S						DY
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	11-1	וטו			}	
Chloride	. 656	228	844	82	75-125	

Lab Batch #: 786505

Date Analyzed: 12/18/2009

Date Prepared: 12/18/2009

Analyst: LATCOR

QC-Sample ID: 356110-018 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg	MATI	MATRIX / MATRIX SPIKE RECOVERY STUDY								
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag				
Chloride	12.9	113	118	93	75-125					

Lab Batch #: 786509

Date Analyzed: 12/18/2009

Date Prepared: 12/18/2009

Analyst: LATCOR

QC- Sample ID: 356110-035 S

Batch #:

Matrix: Soil

Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY								
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag			
Chloride	ND	108	108	100	75-125				

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

JR.L - Below Reporting Limit

Final Ver. 1.000



Form 3 - MS / MSD Recoveries

Project Name: Southern Union Landfarm



Work Order #: 356110

Project ID: Southern Union Gas

Lab Batch ID: 786542

QC- Sample ID: 356110-001 S

Matrix: Soil Batch #:

Date Analyzed: 12/20/2009

Date Prepared: 12/19/2009

Analyst: ASA

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUDI ICATE DECOVERY STUDY

Troporous outsides	MATRIX SPIRE / MATRIX SPIRE DUPLICATE RECOVERY STUDY										
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample .%R [D]		Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1140	0.0665	58	0.1142	0.0763	67	14	70-130	35	Х
Toluene	ND	0.1140	0.0679	60	0.1142	0.0783	69	14	70-130	35	х
Ethylbenzene	ND .	0.1140	0.0659	58	0.1142	0.0759	66	14	71-129	35	Х
m,p-Xylenes	ND	0.2280	0.1510	66	0.2284	0.1729	76	14	70-135	35	Х
o-Xylene	ND	0.1140	0.0748	66	0.1142	0.0857	75	14	71-133	35	х

Lab Batch ID: 786549

Date Analyzed: 12/21/2009

Date Prepared: 12/19/2009

QC- Sample ID: 356110-040 S

Batch #:

Matrix: Soil

Analyst: ASA

Reporting Units: mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Con Lin		

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1045	0.0795	76	0.1043	0.0807	77	1	70-130	35	
Toluene	ND	0.1045	0.0792	76	0.1043	0.0806	. 77	2	70-130	35	
Ethylbenzene	ND	0.1045	0.0781	75	0.1043	0.0795	76	2	71-129	35	
m,p-Xylenes	ND	0.2090	0.1740	83	0.2086	0.1777	85	2	70-135	35	
o-Xylene	ND	0.1045	0.0852	82	0.1043	0.0868	83	2	71-133	35	

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

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



Form 3 - MS / MSD Recoveries

Project Name: Southern Union Landfarm



Work Order #: 356110

Matrix: Soil

Project ID: Southern Union Gas

Lab Batch ID: 786507 Date Analyzed: 12/20/2009 **QC-Sample ID:** 356110-001 S

Batch #:

1

Reporting Units: mg/kg

Date Prepared: 12/18/2009 Analyst:

Reporting Units: mg/kg		M	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY:	STUDY		
TPH By SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample	•	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	ND	1140	1050	92	1140	1060	93	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1140	862	76	1140	885	78	3	70-135	35	

Lab Batch ID: 786512

QC-Sample ID: 356110-030 S

Batch #:

Matrix: Soil

Date Analyzed: 12/20/2009

Date Prepared: 12/18/2009

Analyst: BEV

Reporting Units: mg/kg		M	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
TPH By SW8015 Mod	Parent Sample Result	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	ND	1170	1030	88	1160	1070	92	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1170	977	84	1160	876	76	11	70-135	35	

ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

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



Sample Duplicate Recovery



Project Name: Southern Union Landfarm

Work Order #: 356110

Lab Batch #: 786498

Project ID: Southern Union Gas

Date Analyzed: 12/18/2009

Date Prepared: 12/18/2009

Analyst: LATCOR

QC- Sample ID: 356011-002 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	656	652	1	20	

Lab Batch #: 786505

Date Analyzed: 12/18/2009

Date Prepared: 12/18/2009

Analyst: LATCOR

QC-Sample ID: 356110-018 D

Batch #:

Matrix: Soil

Reportin

Reporting Units: mg/kg	SAMPLE	SAMPLE	DUPLIC	ALE REC	OVERY
Anions by E300	Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Chloride	12.9	6.04	72	20	F

Lab Batch #: 786509

Date Analyzed: 12/18/2009

Date Prepared: 12/18/2009

Analyst: LATCOR

QC- Sample ID: 356110-035 D

Batch #:

Matrix: Soil

Reporting Units: mg/kg	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Chloride	ND	ND	NC	20	

Lab Batch #: 786465

Date Analyzed: 12/18/2009

Date Prepared: 12/18/2009

Analyst: WRU

QC- Sample ID: 356110-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	12.4	12.5	0	20	

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



Sample Duplicate Recovery



Project Name: Southern Union Landfarm

Work Order #: 356110

Date Analyzed: 12/18/2009

Lab Batch #: 786468

Date Prepared: 12/18/2009

Project ID: Southern Union Gas

Analyst: WRU

QC- Sample ID: 356110-021 D

Batch #: 1

Matrix: Soil

Reporting Units: %	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte		1-1			
Percent Moisture	15.8	16.7	6 '	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

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Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765

	Project Manager: Rose Stade	9			PAGE 01 0	F 04										. PI	rojec	t Nam	e: <u>5</u>	out	1err	Un	ion	Lan	лап	<u>m</u>	—			_
	Company Name Southern L	Inion Gas Serv	/ices					_								•	Pr	oject	#: <u>S</u>	outi	nern	<u>Un</u>	ion	Gas						
	Company Address: 1507 W. 15	ith Street															Proje	ect La	c: <u>Le</u>	a C	ount	y, NA	A							_
	City/State/Zip: Monahans,	, TX 79756													_	-		PO	#:											
	Telephone No: 432-943-11	16				Fax No:		432	2- 9 4:	3-110	01					Repo	rt Fo	rmat:	X	Sta	anda	rd	ĺ	TF	RRP			NPO	ES	
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ORDER								ZY.	Pre	eserv	atio	n & #	of Co	ntain	ers	Matrix	9	П	T	OTAL	8	Н	_	X					48, 72 hr	
LAB # (tab use only)	FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers 4229		HNO3			Na ₂ S ₂ O ₃	Î	Other (Specify)	OW - Drinking Water St Studg CW - Groundwater S - SolvSok NP - Non-Potable Specity Orn	18	TPH: TX 1005 TX 1006	Cations (Cl. SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg S	Volatiles	Samivolatiles	BTEX 802 7B/5030 or BTEX 8260 RCI	N.O.R.M.	РАН	EPA Paint Filter Test	Chlorides E 300	RUSH TAT (Pre-Schedule) 24,	Standard TAT
1	VZ Cell 14 G1				12/16/2009	0905		1	X							Soll	х		\perp					x				x	_	X
2	VZ Cell 1 G1				12/16/2009	0915		1	X			\perp	┸			Soil	<u> x</u>		\perp	L				X.	\bot			x		X
3	VZ Cell 1 G2				12/16/2009	0925		1	X				1	\perp		Soil	x		\perp			Ш		x	丄	Ш	\sqcup	X	_	X
4	VZ Cell 1 G3				12/16/2009	0935		1	Х			\perp	丄	<u> </u>		Soll	<u> x</u>	Ц	\perp	L		Ш		X.	\perp	$oxed{oxed}$	\sqcup	X		X
5	VZ Cell 1 G4			L	12/16/2009	0945		1	X			\perp	ᆚ			Soll	x	Ц		L		Ш		x	丄	igspace	Ш	X		X
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Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765

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	Company Name	Southern Union	n Gas Serv	rices													-	P	roje	rt #:	Sou	ther	n U	nior	1 Ga	8					
	Company Address:	1507 W. 15th S	treet															Proj	ect l	Loc:	Lea (oun	rty, N	IM							
	City/State/Zip:	Monahans, TX	79756																P	O #:											
	Telephone No:	432-943-1116		•			Fax No:	:	432	2- 9 4:	3-11) 1					Rep	ort Fo	ama	t:	x s	tand	ard			TRR)] NPC	DES	
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· §				Seginning Depth	nding Depth	Date Sampled	Time Sampled	2	Cotal #. of Containers	l		χ X		1	£	ecify)	DW-Drinidng Water GW - Groundwater	ăト	TX 1005	Cations (Ca. Mg. Na.	Anions (Cl. SO4,	2 2	•	8				i i		£	Standard TAT
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Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765

	Project Manager:	Rose Slade			PAGE 03 C	F 04										-	Pr	ojeci	: Na	me:	50	uth	<u>ern</u>	Un	lon	Lar	ота	<u>m</u>				
	Company Name	Southern Union G	as Services													-		Pr	ojec	: #:	So	uthe	ern	Un	ion	Gas	3					
	Company Address:	1507 W. 15th Stree	ot													_	í	^o roje	ect L	.oc:	Lea	Cou	unty	, NA	4							
	City/State/Zip:	Monahans, TX 797	56									_				_			PC)# :												
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21	VZ	ell 8 G1			12/16/2009	1225			X							S	oli	х								x	\perp	L	I	х		Х
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25	VZ C	eli 6 G1			12/16/2009	1305		1	x							8	oil	х								x	\perp	1_		X		X
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Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765

	Project Manager.	Rose Slade			PAGE U4 U	PF 04										. Р	rojec	I Na	me:	<u> </u>	tnei	n u	nioi		nat	arm	<u></u>			
	Company Name	Southern Union Gas Ser	vices														P	rojec	at#:_	Sou	ther	n U	inio	n Ga	as_					
	Company Address:	1507 W. 15th Street														-	Proj	ect L	.oc:	Lea I	Cour	ıty, İ	ММ							
	City/State/Zip:	Monahans, TX 79756														<u>-</u>		P	O #:_											
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38	VZ C	ell 11 G2			12/16/2009	1515	<u>.</u>	1	X					$oldsymbol{ol}}}}}}}}}}}}}}}}}}$		Soil	X			_	┵	<u> </u>	<u> </u>	X	Ц	\dashv	4	⊥≥	<u> </u>	X
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Relinquis	phed by:	Date		me.	Received by:						-				Da	ite	Tim	ю	Sen	iple by So by Co	land mple	Del MC#	ivere ent R UP	d ep. ?	P DHL		TedE	المراجع ا	N N	
Relinquis	shed by:	Date	Т	me	Received by ELC	or: Lo Fitz	<u>ہ</u>							17	Da ۲۰	7:09	Tim (7)	- 1	١.	•			n Red						ن. م.	
										- ~	-																			

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client:	SUGS	•			
Date/ Time:	12-17-09 @1704				
.ab ID#:	356110				
nitials:	JMF				
	Sample Receipt	Checklist			
		·			Client Initials
	ature of container/ cooler?	Yes	No	5.6 °C	
	container in good condition?	Yes	No_		
	Seals intact on shipping container/ cooler?	Yes	No_	Not Present	
#4 Custody Seals intact on sample bottles/ container?/labe.		(Yes)	No	Not Present	
#5 Chain of Custody present?		Yes	No		
6 Sample instructions complete of Chain of Custody?		(Yes)	<u>No</u>		
7 Chain of Custody signed when relinquished/ received?		(Yes)	No		
8 Chain of Custody agrees with sample label(s)?		Yes	No	ID written on Cont./ Lid	
9 Container label(s) legible and intact?		Yes	No_	Not Applicable	
	matrix/ properties agree with Chain of Custody?	(Yes)	<u>No</u>		
~	ers supplied by ELOT?	(Yes)	No		
#12 Samples in proper container/ bottle?		(Yes)	No_	See Below	
#13 Samples properly preserved? #14 Sample bottles intact?		Yes	No	See Below	
		(Yes	No		
	ations documented on Chain of Custody?	Yes	No		
	ers documented on Chain of Custody?	(Yes	No	ļ	
	nt sample amount for indicated test(s)?	Yes	No	See Below	
	ples received within sufficient hold time?	(Yes)	No	See Below	
	tract of sample(s)?	Yes	No	Not Applicable	
120 VOC SE	imples have zero headspace?	Yes	No	Not Applicable	
	Variance Docur	mentation			
	variance bocu	iicii(AtiOii			
Contact:	Contacted by:			Date/ Time:	
			•	D G (G)	
Regarding:					
		,			
Corrective Ad	ction Taken:				
	·				
					
				·	
Check all tha	at Apply: See attached e-mail/ fax				



Southern Union Landfarm - Cell #1



Southern Union Landfarm – Cell #2



Southern Union Landfarm - Cell #3



Southern Union Landfarm - Cell #4



Southern Union Landfarm - Cell #5



Southern Union Landfarm – Cell #6



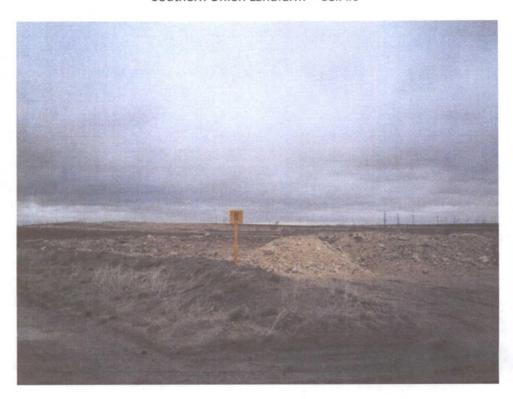
Southern Union Landfarm - Cell #7



Southern Union Landfarm – Cell #8



Southern Union Landfarm – Cell #9



Southern Union Landfarm - Cell #11



Southern Union Landfarm - Cell #13



Southern Union Landfarm - Cell #14