1R- 495

REPORTS

DATE:

10-26-10

Southern Union Gas Services

1507 W. 15th
Monahans, Texas 79756

432.943.1100 Fax: 432.943.1101

October 26, 2010

Mr. Edward J. Hansen
Environmental Bureau
New Mexico Oil Conservation Division
1220 South St. Francis
Santa Fe, New Mexico 87505

Re: Remediation Summary and Site Closure Request
Red Byrd 8-Inch Monument (1RP-1463 and 1RP-495)

Dear Ed,

Enclosed is the Red Byrd 8-Inch Monument release site *Remediation Summary and Site Closure Request* dated October 25, 2010. The release site is located in Unit Letter "H", Section 1, Township 20 South, Range 36 East, in rural Lea County, New Mexico. A Final Form C-141 is also enclosed for your consideration. Please contact me at 575-390-7595, should you have any questions or comments.

Respectfully submitted,

Curt D. Stanley
EHS Compliance Specialist
Southern Union Gas Services, Ltd
1507 W. 15th Street
Monahans, Texas 79756
curt.stanley@sug.com

Cc:
Mr. Larry Johnson – NMOCD Hobbs District Office
SUG Environmental Files

Enclosures

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Southern Union Gas Services, Ltd.	Contact	Rose Slade
Address	P.O. Box 1226 Jal, N.M. 88252	Telephone No.	432-940-5147
Facility Name	Red Byrd 8-Inch Monument	Facility Type	Natural Gas Gathering

Surface Owner: J.R. "Red" Byrd	Mineral Owner:	Lease No. 30-025-28822

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	1	20S	36E					Lea

Latitude N32 36.199 Longitude W103 18.066

NATURE OF RELEASE

Type of Release : Natural Gas and Water	Volume of Release: Less than 2 bbls of water and 50 MCF Gas	Volume Recovered None
Source of Release : 8" Natural Gas Pipeline	Date and Hour of Occurrence Not Known	Date and Hour of Discovery Not Known
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
A natural gas pipeline developed a leak while operating at less than 35 PSI. The leak was excavated and the affected area was temporarily repaired with an 8" leak clamp. The line will be purged and disconnected from the system.

Describe Area Affected and Cleanup Action Taken. The area affected by the release measured approximately 30 feet by 20 feet, in pasture land. The impacted soil was excavated and transported to the Southern Union Landfarm. Please reference Red Byrd 8-Inch Monument Remediation Summary and Site Closure Request dated October 25, 2010, for remediation details.

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

Signature: Rose L Slade		OIL CONSERVATION DIVISION	
Printed Name:	Rose L. Slade	Approved by District Supervisor:	
Title:	EHS Compliance Specialist	Approval Date:	Expiration Date:
E-mail Address:	rose.slade@sug.com	Conditions of Approval:	Attached ☐
Date: 10/25/2010	Phone: 432-940-5147		

* Attach Additional Sheets If Necessary

Southern Union Gas Services

1507 W. 15th
Monahans, Texas 79756

432.943.1100 Fax: 432.943.1101

October 25, 2010

Mr. Edward J. Hansen
Environmental Bureau
New Mexico Oil Conservation Division
1220 South St. Francis
Santa Fe, New Mexico 87505

Re: Remediation Summary and Site Closure Request
Red Byrd 8-Inch Monument (1RP-1463 and 1RP-495)

Mr. Hansen,

On February 9, 2007, a release of natural gas and produced water was reported to Southern Union Gas Services, Ltd (SUG). The release occurred on an eight (8) inch steel natural gas pipeline, located on property owned by Mr. J.R. "Red" Byrd. The release was located in Unit Letter "H", Section 1, Township 20 South and Range 36 East in rural Lea County, New Mexico. The release GPS coordinates were 32° 36.199' N, 103° 18.066' W. The volume of the release was estimated to be approximately two (2) barrels (bbls) of water and fifty (50) MCF of natural gas, with no recovery. The area affected by the release measured approximately twenty (20) feet in width and thirty (30) feet in length, within a pasture. A site location map and site map are attached for your reference.

On June 8, 2007, SUG prepared and submitted an Initial Release Notification and Corrective Action (NMOCD Form C-141) to the New Mexico Oil Conservation Division (NMOCD) – Hobbs District Office. The Initial NMOCD Form C-141 is attached for your reference. The release appears to have been assigned two (2) NMOCD release numbers (1RP-1463 and 1RP-495).

The SUG release was located adjacent to and comingled with a Plains Marketing, L.P. (Plains) release (Red Byrd Ranch Historical – 1RP-1299), reported to the NMOCD – Hobbs District Office on April 25, 2007. Furthermore, the Red Byrd Ranch Historical Release (Plains) and Red Byrd 8-Inch Monument Release (SUG) were contained within the confines of the larger Red Byrd #1 (1RP-085) release (Plains). Red Byrd #1 monitor well (MW-6) is located within the SUG Red Byrd 8-inch Monument release site.

In September 2009, Basin Environmental Consulting, LLC (Basin) completed, on behalf of Plains, the remediation of the Red Byrd Ranch Historical release (1RP-1299). In October 2009, a *Remediation Summary and Soil Closure Request* was prepared and submitted to the NMOCD – Santa Fe Office, for approval. On November 30, 2009, Plains received NMOCD

approval of the Red Byrd Ranch Historical *Remediation Summary and Soil Closure Request.* As stated above, given the proximity of the Red Byrd Ranch Historical (Plains) and the Red Byrd 8-inch Monument release(s), the reviewer should reference the Plains *Remediation Summary and Soil Closure* for additional details not contained in this document.

The available data indicates, a registered water well is located approximately 1,538 feet southwest of the release site. A depth to groundwater reference map, utilized by the NMOCD, indicates groundwater should be encountered at approximately thirty-one (31) feet below ground surface (bgs). During the installation of monitor wells at the Plains Red Byrd #1 release site, groundwater was encountered at approximately twenty-five (25) bgs. The nearest water course is approximately 1.39 miles to the north of the release site. Based on the NMOCD ranking classification, the release site score is twenty (20). A release site with a ranking score of twenty (20), requires the following NMOCD cleanup levels:

Benzene: 10 mg/Kg
BTEX : 50 mg/Kg
TPH: 100 mg/Kg

On June 8, 2007, Ocotillo Environmental, LLC (Ocotillo), on behalf of SUG, began the delineation and remediation of the Red Byrd 8-Inch Monument release site. Excavated soil was stockpiled onsite, pending final disposition.

On June 8, 2007, nine (9) soil samples (3' E of MW @ 1', 3' E of MW @ 2', 3' E of MW @ 3', 3' E of MW @ 4', 3' E of MW @ 5', 3' E of MW @ 6', 3' E of MW @ 8', 3' E of MW @ 12' and 3' N of MW @ 15') were collected and submitted to the laboratory for analysis. All nine (9) soil samples were analyzed for concentrations of total petroleum hydrocarbon (TPH) using Method SW-846 8015B(M). The analytical results indicated TPH concentrations ranged from 15.2 mg/Kg in soil sample 3' N of MW @ 15' to 352 mg/Kg in soil sample 3' E of MW @ 2'. Soil samples 3' E of MW @ 6', 3' E of MW @ 12' and 3' N of MW @ 15', were analyzed for concentrations of benzene, toluene, ethyl benzene and xylene (BTEX) using EPA Method SW-846 8021b and chloride using Method 4500-Cl-B. The analytical results indicated benzene concentrations were less than the laboratory method detection limit (MDL) of 0.002 mg/Kg, in all three (3) of the submitted soil samples. The results further indicated BTEX concentrations ranged from less than the laboratory MDL of 0.002 mg/Kg in soil sample 3' N of MW @ 15' to 0.2027 mg/Kg in soil sample 3' E of MW @ 12'. The results indicated chloride concentrations ranged from 681 mg/Kg in soil sample 3' N of MW @ 15' to 1,020 mg/Kg in soil sample 3' E of MW @ 12'. A table summarizing Concentrations of Benzene, BTEX, TPH and Chloride is attached to this Site Closure Request and analytical laboratory reports are attached for your reference.

On June 12, 2007, the impacted soil stockpile was blended and a soil sample was submitted to the laboratory for chloride analysis. The analytical results indicated the chloride concentration was 383 mg/Kg. Based the analytical results, the impacted soil stockpile was to be transported the Southern Union Services Landfarm (NM2-19-0), located north of Jal, New Mexico.

On June 15, 2007, three (3) excavation sidewall soil samples (EW-Comp, WW-Comp and NW-Comp) were collected and submitted to the laboratory for TPH and chloride analysis. The analytical results indicated TPH concentrations were less than the laboratory MDL of 10 mg/Kg in all three (3) of the submitted soil samples. Chlorides concentrations ranged from 903 mg/Kg in soil sample NW-Comp to 1,840 mg/Kg in soil sample WW-Comp.

On June 15, 2007, two (2) excavation floor soil samples (P.R. @ 15' and B-Comp) were collected and submitted for TPH and chloride analysis. The analytical results indicated soil samples P.R. @ 15' and B-Comp exhibited TPH concentrations of 2,204 mg/Kg and 9,511 mg/Kg, respectively. The results further indicated, chloride concentrations for soil samples P.R. @ 15' and B-Comp were 539 mg/Kg and 537 mg/Kg, respectively. Soil sample P.R. @ 15' was analyzed for concentrations of benzene and BTEX, as well. The analytical results indicated the benzene concentration was 26.5 mg/Kg and the BTEX concentration was 471.5 mg/Kg.

On August 28, 2008, SUG submitted a chronology of events at the Red Byrd 8-Inch Monument release site, including the results of analysis, to the NMOCD – Santa Fe Office. The correspondence to the NMOCD also included photographs of an additional potential release source along the south sidewall of the SUG excavation. The photographs identified an apparent release and subsequent repair of the Plains pipeline.

From September 2, 2008 through October 1, 2008, approximately 720 cubic yards (cy) of impacted soil contained in the stockpile, was transported to the Southern Union Landfarm. Non-impacted soil was purchased from the landowner, transported to the release site and staged, pending NMOCD permission to backfill the excavation.

On September 17, 2008, the NMOCD – Santa Fe Office reviewed the submitted analytical results and requested SUG provide a work plan for further investigation of the Red Byrd 8-Inch Monument release site.

On September 19, 2008, SUG responded to the NMOCD request and proposed additional soil sampling on the excavation floor and along the south sidewall of the excavation. Prior to the sampling event, loose soil was removed from the excavation floor and added to the existing stockpile to provide a platform for a representative sample.

On October 1, 2008, fifteen (15) soil samples (B-1 through B-14 and B-17) were collected from the excavation floor. All fifteen (15) excavation floor soil samples were analyzed for concentrations of TPH. The analytical results indicated TPH concentrations ranged from less than the laboratory MDL of 25 mg/Kg in soil samples B-1, B-2, B-5, B-6, B-7, B-9 and B-10 to 4,282 mg/Kg in soil sample B-11. Soil samples B-3, B-7, B-11, B-12 and B-17 were analyzed for concentrations of benzene and BTEX. The analytical results indicated benzene concentrations ranged from less than the laboratory MDL of 0.05 mg/Kg in soil samples B-3 and B-7 to 0.297 mg/Kg in soil sample B-11. Soil samples B-2 and B-7 were analyzed for concentrations of chloride. The analytical results indicated chloride concentrations for soil samples B-2 and B-7 were 48 mg/Kg and less than the laboratory MDL, respectively.

The laboratory analytical data obtained during the October 1, 2008 sampling event appeared to confirm an additional area of hydrocarbon impact along the south sidewall and south excavation floor, which appeared to be attributable to a release from the Plains pipeline.

On October 17, 2008, SUG submitted an email to the NMOCD – Santa Fe Office documenting the analytical results of the October 1, 2008 sampling event. On November 14, 2008, SUG received conditional NMOCD approval to backfill the release site. The approval was contingent on SUG coordinating the backfill activities with the Plains Red Byrd Ranch Historical (1RP-1299) remediation activities, which were identified by the SUG October 1, 2008 sampling activities.

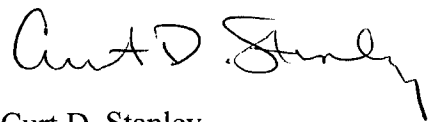
Additional remediation activities undertaken by Plains Marketing, L.P. after November 14, 2008, are documented in the Red Byrd Ranch Historical *Remediation Summary and Soil Closure Request* dated October 2009.

On September 9, 2009, remediation activities conducted by SUG and Plains were completed. Following the backfill and contouring of the Plains Red Byrd Ranch Historical and SUG Red Byrd 8-Inch Monument release sites, the affected areas were seeded with vegetation acceptable to the landowner.

Based on the analytical results, Southern Union Gas Services, Ltd requests NMOCD Site Closure status for the Red Byrd 8-Inch Monument release. Attached to this correspondence are: a location map, a site map, a table summarizing Concentrations of Benzene, BTEX, TPH and Chloride, site photographs, laboratory analytical reports, an Initial NMOCD Form C-141 and a Final NMOCD Form C-141.

Please contact me at 575-390-7595, should you have any questions or comments.

Respectfully submitted,



Curt D. Stanley
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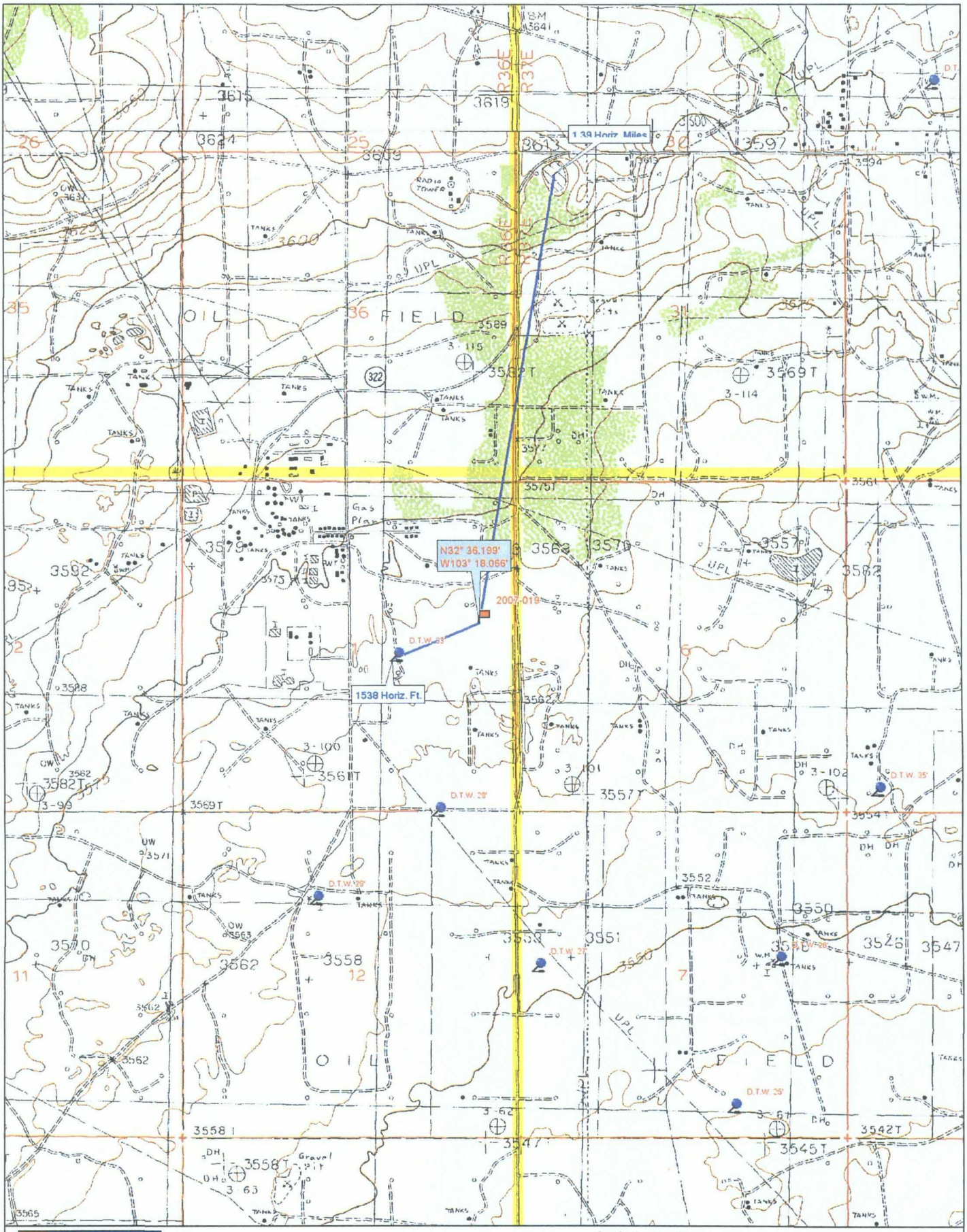
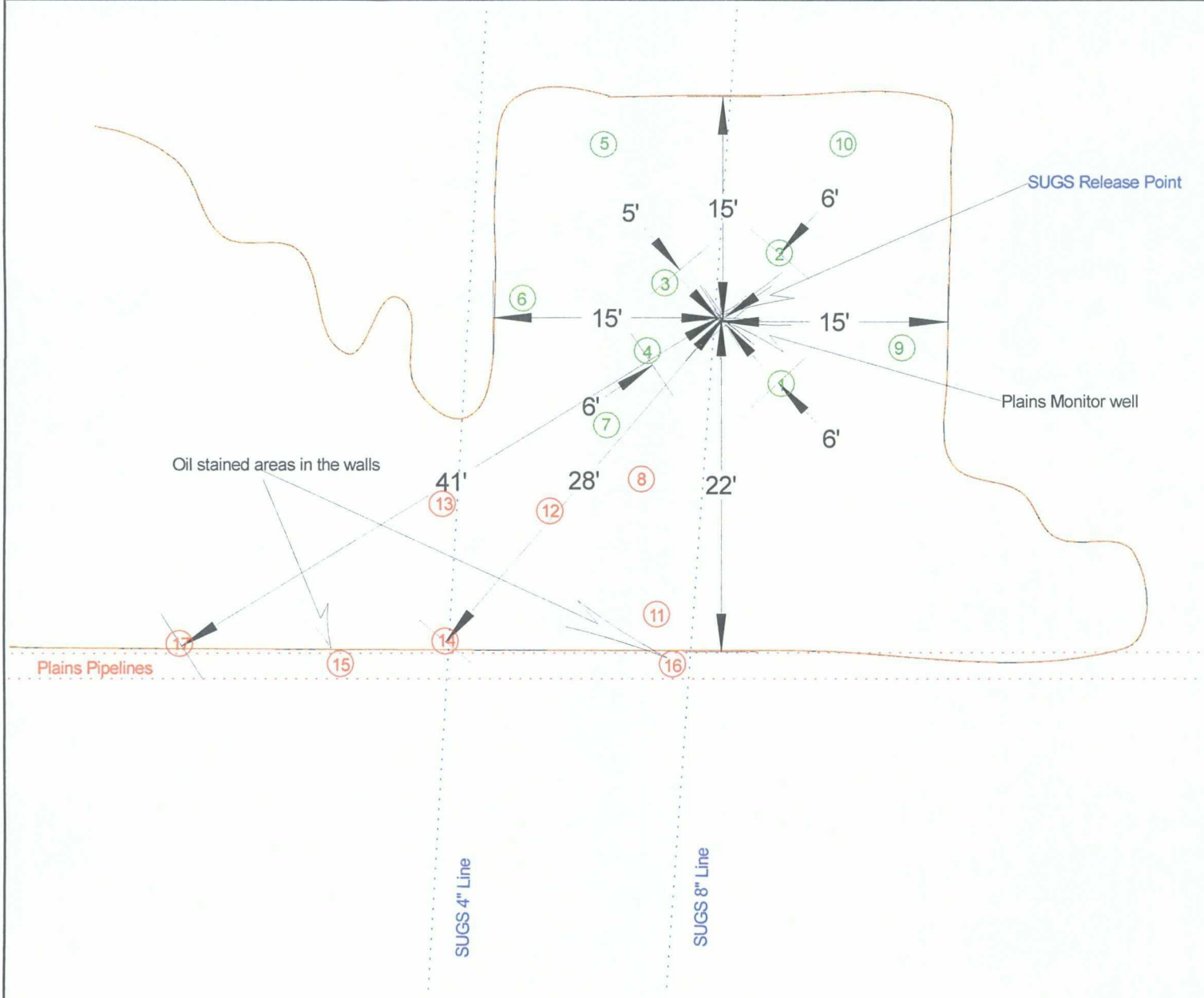
1507 W. 15th Street
Monahans, Texas 79756
curt.stanley@sug.com

Cc:
Mr. Larry Johnson – NMOCD Hobbs District Office
SUG Environmental Files





Soil samples were taken after approximately 1 ft. of soil had been removed from the bottom of the excavation.
Samples 15 &16 were taken 2' up from the floor on the South wall
All of the other samples were taken from the floor of the excavation
Samples in red exceed the closure level
Samples in green are below the closure level.

Unit ltr."A"
Section 31
Twns.-25 S
Range 37E
County-Lea, N.M.
GPS
Lat- 32-05'.645 N
Long-103-11'.714 W

Approximate
Scale 1"= 10'

N

Southern Union Gas Services

Site Plan-Red Byrd 8"

Job # 2007-019

Lea County Area Jal, N.M.

Figure 2

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
SOUTHERN UNION GAS SERVICES
RED BYRD 8-INCH MONUMENT
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030						METHOD: SW-846 8015B (M)					METHOD: 4500-Cl-B
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M, p - XYLENES (mg/Kg)	O, - XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{10} (mg/Kg)	DRO C_{10}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)	TOTAL TPH C_6-C_{28} (mg/Kg)	TOTAL TPH C_6-C_{35} (mg/Kg)	CHLORIDE (mg/Kg)
3' E of MW @ 1'	1 foot	06/08/07	Excavated	-	-	-	-	-	-	103	62.4	<10	-	165	-
3' E of MW @ 2'	2 feet	06/08/07	Excavated	-	-	-	-	-	-	184	122	46	-	352	-
3' E of MW @ 3'	3 feet	06/08/07	Excavated	-	-	-	-	-	-	<10.0	44.4	<10	-	44.4	-
3' E of MW @ 4'	4 feet	06/08/07	Excavated	-	-	-	-	-	-	43	143	95.9	-	281.9	-
3' E of MW @ 5'	5 feet	06/08/07	Excavated	-	-	-	-	-	-	62	61.2	<10	-	123.2	-
3' E of MW @ 6'	6 feet	06/08/07	Excavated	<0.002	0.00228	0.0124	0.0311	0.0136	0.05938	57.9	41.9	<10	-	99.8	978
3' E of MW @ 8'	8 feet	06/08/07	Excavated	-	-	-	-	-	-	77.7	21.4	<10	-	99.1	-
3' E of MW @ 12'	12 feet	06/08/07	Excavated	<0.002	0.0169	0.0498	0.0964	0.0396	0.2027	91.3	43.2	<10	-	135	1,020
3' N of MW @ 15'	15 feet	06/08/07	Excavated	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<10	15.2	<10	-	15.2	681
SP-Comp	-	06/12/07	Transported	-	-	-	-	-	-	-	-	-	-	-	383
P.R. @ 15'	15 feet	06/15/07	Excavated	26.5	98.4	99.0	183	64.6	471.5	9,310	201	<50	-	9,511	539
EW-Comp	-	06/15/07	In-Situ	-	-	-	-	-	-	<10	<10	<10	-	<10	1,810
WW-Comp	-	06/15/07	In-Situ	-	-	-	-	-	-	<10	<10	<10	-	<10	1,840
NW-Comp	-	06/15/07	In-Situ	-	-	-	-	-	-	<10	<10	<10	-	<10	903
B-Comp	15 feet	06/15/07	Excavated	-	-	-	-	-	-	306	1,560	338	-	2,204	537
B-1	16 feet	10/01/08	In-Situ	-	-	-	-	-	-	<25	<25	-	<25	-	-
B-2	16 feet	10/01/08	In-Situ	-	-	-	-	-	-	<25	<25	-	<25	-	48
B-3	16 feet	10/01/08	In-Situ	<0.050	<0.050	<0.050	<0.150		<0.150	<25	33.7	-	33.7	-	-
B-4	16 feet	10/01/08	In-Situ	-	-	-	-	-	-	<25	28.7	-	28.7	-	-
B-5	16 feet	10/01/08	In-Situ	-	-	-	-	-	-	<25	<25	-	<25	-	-
B-6	16 feet	10/01/08	In-Situ	-	-	-	-	-	-	<25	<25	-	<25	-	-
B-7	16 feet	10/01/08	In-Situ	<0.050	<0.050	<0.050	<0.150		<0.150	<25	<25	-	<25	-	<16
B-8	16 feet	10/01/08	In-Situ	-	-	-	-	-	-	370	2,030	-	2,400	-	-
B-9	16 feet	10/01/08	In-Situ	-	-	-	-	-	-	<25	<25	-	<25	-	-
B-10	16 feet	10/01/08	In-Situ	-	-	-	-	-	-	<25	<25	-	<25	-	-
B-11	16 feet	10/01/08	In-Situ	0.297	0.996	2.49	7.22		11.0	932	3,350	-	4,282	-	-
B-12	16 feet	10/01/08	In-Situ	0.075	0.536	1.66	4.57		6.8	609	2,050	-	2,659	-	-
B-13	16 feet	10/01/08	In-Situ	-	-	-	-	-	-	376	2,640	-	3,016	-	-
B-14	16 feet	10/01/08	In-Situ	-	-	-	-	-	-	152	1,340	-	1,492	-	-
B-16	14 feet	10/01/08	*Excavated	-	-	-	-	-	-	814	4,010	-	4,824	-	-
B-17	16 feet	10/01/08	In-Situ	0.098	0.580	1.74	5.01		7.4	817	2,920	-	3,737	-	-
B-15	14 feet	10/01/08	*Excavated	-	-	-	-	-	-	1,290	5,200	-	6,490	-	-

* = Excavated and Resampled by Plains Marketing, L.P.

SUG Red Byrd 8-Inch Monument Release Site Prior to Remediation Activities

SUG Red Byrd 8-Inch Monument Release Site During Remediation Activities

SUG Red Byrd 8-Inch Monument Release Site During Remediation Activities,
Note Plains Monitor Well MW-6 in Photo Center

SUG Red Byrd 8-Inch Monument Release Site, Excavation South Sidewall,
showing area of potential Plains Release

SUG Red Byrd 8-Inch Monument Release Site, During Polyliner Installation

SUG Red Byrd 8-Inch Monument Release Site, Remediation Activities Completed and Site Seeded

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Tony Savoie

Southern Union Gas Services- Jal

P.O. Box 1226

Jal, NM 88252

Project: Red Byrd 8"

Project Number: 2007-019

Location: Monument

Lab Order Number: 7F08022

Report Date: 06/12/07

Southern Union Gas Services- Jal	Project: Red Byrd 8"	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2007-019	
Jal NM, 88252	Project Manager: Tony Savoie	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
3' E of MW @ 1'	7F08022-01	Soil	06/08/07 11:00	06-08-2007 17:00
3' E of MW @ 2'	7F08022-02	Soil	06/08/07 11:00	06-08-2007 17:00
3' E of MW @ 3'	7F08022-03	Soil	06/08/07 11:00	06-08-2007 17:00
3' E of MW @ 4'	7F08022-04	Soil	06/08/07 11:00	06-08-2007 17:00
3' E of MW @ 5'	7F08022-05	Soil	06/08/07 11:00	06-08-2007 17:00
3' E of MW @ 6'	7F08022-06	Soil	06/08/07 11:00	06-08-2007 17:00
3' E of MW @ 8'	7F08022-07	Soil	06/08/07 11:00	06-08-2007 17:00
3' E of MW @ 12'	7F08022-08	Soil	06/08/07 11:00	06-08-2007 17:00
3' N of MW @ 15'	7F08022-09	Soil	06/08/07 14:00	06-08-2007 17:00

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

Southern Union Gas Services- Jal	Project: Red Byrd 8"	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2007-019	
Jal NM, 88252	Project Manager: Tony Savoie	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
3' E of MW @ 1' (7F08022-01) Soil									
Carbon Ranges C6-C12	**103**	10.0	mg/kg dry	1	EF71101	06/11/07	06/11/07	EPA 8015M	
Carbon Ranges C12-C28	**62.4**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**165**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*128 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*90.4 %*	*70-130*		"	"	"	"	
3' E of MW @ 2' (7F08022-02) Soil									
Carbon Ranges C6-C12	**184**	10.0	mg/kg dry	1	EF71101	06/11/07	06/11/07	EPA 8015M	
Carbon Ranges C12-C28	**122**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**46.0**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**352**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*122 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*87.4 %*	*70-130*		"	"	"	"	
3' E of MW @ 3' (7F08022-03) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF71101	06/11/07	06/11/07	EPA 8015M	
Carbon Ranges C12-C28	**44.4**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**44.4**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*107 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*81.6 %*	*70-130*		"	"	"	"	
3' E of MW @ 4' (7F08022-04) Soil									
Carbon Ranges C6-C12	**43.0**	10.0	mg/kg dry	1	EF71101	06/11/07	06/11/07	EPA 8015M	
Carbon Ranges C12-C28	**143**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**95.9**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**282**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*82.2 %*	*70-130*		"	"	"	"	

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

Southern Union Gas Services- Jal	Project: Red Byrd 8"	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2007-019	
Jal NM, 88252	Project Manager: Tony Savoie	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
3' E of MW @ 5' (7F08022-05) Soil									
Carbon Ranges C6-C12	**62.0**	10.0	mg/kg dry	1	EF71101	06/11/07	06/11/07	EPA 8015M	
Carbon Ranges C12-C28	**61.2**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**123**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*108 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*87.8 %*	*70-130*		"	"	"	"	
3' E of MW @ 6' (7F08022-06) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EF70803	06/11/07	06/11/07	EPA 8021B	
Toluene	**0.00228**	0.00200	"	"	"	"	"	"	
Ethylbenzene	**0.0124**	0.00200	"	"	"	"	"	"	
Xylene (p/m)	**0.0311**	0.00200	"	"	"	"	"	"	
Xylene (o)	**0.0136**	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*79.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.4 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	**57.9**	10.0	mg/kg dry	1	EF71101	06/11/07	06/11/07	EPA 8015M	
Carbon Ranges C12-C28	**41.9**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**99.8**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*112 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*85.0 %*	*70-130*		"	"	"	"	
3' E of MW @ 8' (7F08022-07) Soil									
Carbon Ranges C6-C12	**77.7**	10.0	mg/kg dry	1	EF71101	06/11/07	06/11/07	EPA 8015M	
Carbon Ranges C12-C28	**21.4**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**99.1**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*115 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*91.0 %*	*70-130*		"	"	"	"	

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

Project: Red Byrd 8"
Project Number: 2007-019
Project Manager: Tony Savoie

Fax: 505-395-2326

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
3' E of MW @ 12' (7F08022-08) Soil									
Benzene	**J [0.000776]**	0.00200	mg/kg dry	2	EF70803	06/11/07	06/11/07	EPA 8021B	J
Toluene	**0.0169**	0.00200	"	"	"	"	"	"	
Ethylbenzene	**0.0498**	0.00200	"	"	"	"	"	"	
Xylene (p/m)	**0.0964**	0.00200	"	"	"	"	"	"	
Xylene (o)	**0.0396**	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.6 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*118 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	**91.3**	10.0	mg/kg dry	1	EF71101	06/11/07	06/11/07	EPA 8015M	
Carbon Ranges C12-C28	**43.2**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**134**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*114 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*81.4 %*	*70-130*		"	"	"	"	
3' N of MW @ 15' (7F08022-09) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EF70803	06/11/07	06/11/07	EPA 8021B	
Toluene	**J [0.000932]**	0.00200	"	"	"	"	"	"	J
Ethylbenzene	**ND**	0.00200	"	"	"	"	"	"	
Xylene (p/m)	**J [0.00199]**	0.00200	"	"	"	"	"	"	J
Xylene (o)	**ND**	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*85.0 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.6 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF71101	06/11/07	06/11/07	EPA 8015M	
Carbon Ranges C12-C28	**15.2**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**15.2**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*84.8 %*	*70-130*		"	"	"	"	

Southern Union Gas Services- Jal	Project: Red Byrd 8"	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2007-019	
Jal NM, 88252	Project Manager: Tony Savoie	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
3' E of MW @ 1' (7F08022-01) Soil									
% Moisture	**4.5**	0.1	%	1	EF71102	06/09/07	06/11/07	% calculation	
3' E of MW @ 2' (7F08022-02) Soil									
% Moisture	**13.8**	0.1	%	1	EF71102	06/09/07	06/11/07	% calculation	
3' E of MW @ 3' (7F08022-03) Soil									
% Moisture	**10.4**	0.1	%	1	EF71102	06/09/07	06/11/07	% calculation	
3' E of MW @ 4' (7F08022-04) Soil									
% Moisture	**13.2**	0.1	%	1	EF71102	06/09/07	06/11/07	% calculation	
3' E of MW @ 5' (7F08022-05) Soil									
% Moisture	**12.9**	0.1	%	1	EF71102	06/09/07	06/11/07	% calculation	
3' E of MW @ 6' (7F08022-06) Soil									
Chloride	**978**	20.0	mg/kg Wet	2	EF71105	06/11/07	06/11/07	SW 846 9253	
% Moisture	**10.1**	0.1	%	1	EF71102	06/09/07	06/11/07	% calculation	
3' E of MW @ 8' (7F08022-07) Soil									
% Moisture	**13.8**	0.1	%	1	EF71102	06/09/07	06/11/07	% calculation	
3' E of MW @ 12' (7F08022-08) Soil									
Chloride	**1020**	20.0	mg/kg Wet	2	EF71105	06/11/07	06/11/07	SW 846 9253	
% Moisture	**16.7**	0.1	%	1	EF71102	06/09/07	06/11/07	% calculation	
3' N of MW @ 15' (7F08022-09) Soil									
Chloride	**681**	20.0	mg/kg Wet	2	EF71105	06/11/07	06/11/07	SW 846 9253	
% Moisture	**9.2**	0.1	%	1	EF71102	06/09/07	06/11/07	% calculation	

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF70803 - EPA 5030C (GC)										
Blank (EF70803-BLK1)				Prepared & Analyzed: 06/08/07						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*49.0*		*ug/kg*	*50.0*		*98.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*41.6*		*"*	*50.0*		*83.2*	*75-125*			
LCS (EF70803-BS1)				Prepared & Analyzed: 06/08/07						
Benzene	0.0496	0.00100	mg/kg wet	0.0500		99.2	80-120			
Toluene	0.0500	0.00100	"	0.0500		100	80-120			
Ethylbenzene	0.0480	0.00100	"	0.0500		96.0	80-120			
Xylene (p/m)	0.0929	0.00100	"	0.100		92.9	80-120			
Xylene (o)	0.0501	0.00100	"	0.0500		100	80-120			
Surrogate: a,a,a-Trifluorotoluene	*52.6*		*ug/kg*	*50.0*		*105*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*45.0*		*"*	*50.0*		*90.0*	*75-125*			
Calibration Check (EF70803-CCV1)				Prepared & Analyzed: 06/08/07						
Benzene	0.0549		mg/kg wet	0.0500		110	80-120			
Toluene	0.0541		"	0.0500		108	80-120			
Ethylbenzene	0.0517		"	0.0500		103	80-120			
Xylene (p/m)	0.0970		"	0.100		97.0	80-120			
Xylene (o)	0.0542		"	0.0500		108	80-120			
Surrogate: a,a,a-Trifluorotoluene	*53.0*		*ug/kg*	*50.0*		*106*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*49.6*		*"*	*50.0*		*99.2*	*75-125*			
Matrix Spike (EF70803-MS1)	**Source: 7F06028-01**			Prepared & Analyzed: 06/08/07						
Benzene	0.0973	0.00200	mg/kg dry	0.104	ND	93.6	80-120			
Toluene	0.0961	0.00200	"	0.104	ND	92.4	80-120			
Ethylbenzene	0.0905	0.00200	"	0.104	ND	87.0	80-120			
Xylene (p/m)	0.172	0.00200	"	0.207	ND	83.1	80-120			
Xylene (o)	0.0958	0.00200	"	0.104	ND	92.1	80-120			
Surrogate: a,a,a-Trifluorotoluene	*41.7*		*ug/kg*	*50.0*		*83.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*40.8*		*"*	*50.0*		*81.6*	*75-125*			

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF70803 - EPA 5030C (GC)										
Matrix Spike Dup (EF70803-MSD1)	**Source: 7F06028-01**			Prepared & Analyzed: 06/08/07						
Benzene	0.101	0.00200	mg/kg dry	0.104	ND	97.1	80-120	3.67	20	
Toluene	0.101	0.00200	"	0.104	ND	97.1	80-120	4.96	20	
Ethylbenzene	0.0988	0.00200	"	0.104	ND	95.0	80-120	8.79	20	
Xylene (p/m)	0.179	0.00200	"	0.207	ND	86.5	80-120	4.01	20	
Xylene (o)	0.0999	0.00200	"	0.104	ND	96.1	80-120	4.25	20	
Surrogate: a,a,a-Trifluorotoluene	*45.5*		*ug/kg*	*50.0*		*91.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*44.0*		*"*	*50.0*		*88.0*	*75-125*			
Batch EF71101 - Solvent Extraction (GC)										
Blank (EF71101-BLK1)				Prepared & Analyzed: 06/11/07						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	*54.4*		*mg/kg*	*50.0*		*109*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.7*		*"*	*50.0*		*75.4*	*70-130*			
LCS (EF71101-BS1)				Prepared & Analyzed: 06/11/07						
Carbon Ranges C6-C12	566	10.0	mg/kg wet	500		113	75-125			
Carbon Ranges C12-C28	393	10.0	"	500		78.6	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	959	10.0	"	1000		95.9	75-125			
Surrogate: 1-Chlorooctane	*57.7*		*mg/kg*	*50.0*		*115*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.9*		*"*	*50.0*		*87.8*	*70-130*			
Matrix Spike (EF71101-MS1)	**Source: 7F08022-01**			Prepared & Analyzed: 06/11/07						
Carbon Ranges C6-C12	667	10.0	mg/kg dry	524	103	108	75-125			
Carbon Ranges C12-C28	666	10.0	"	524	62.4	115	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1330	10.0	"	1050	165	111	75-125			
Surrogate: 1-Chlorooctane	*55.6*		*mg/kg*	*50.0*		*111*	*70-130*			
Surrogate: 1-Chlorooctadecane	*38.6*		*"*	*50.0*		*77.2*	*70-130*			

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

Project: Red Byrd 8"
Project Number: 2007-019
Project Manager: Tony Savoie

Fax: 505-395-2326

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF71102 - General Preparation (Prep)										
Blank (EF71102-BLK1)				Prepared: 06/09/07 Analyzed: 06/11/07						
% Solids	99.9		%							
Duplicate (EF71102-DUP1)	**Source: 7F08022-01**			Prepared: 06/09/07 Analyzed: 06/11/07						
% Solids	95.4		%		95.5			0.105	20	
Duplicate (EF71102-DUP2)	**Source: 7F08008-05**			Prepared: 06/08/07 Analyzed: 06/09/07						
% Solids	95.5		%		95.1			0.420	20	
Batch EF71105 - General Preparation (WetChem)										
Blank (EF71105-BLK1)				Prepared & Analyzed: 06/11/07						
Chloride	ND	20.0	mg/kg Wet							
LCS (EF71105-BS1)				Prepared & Analyzed: 06/11/07						
Chloride	95.7	10.0	mg/kg Wet	100		95.7	80-120			
Matrix Spike (EF71105-MS1)	**Source: 7F06023-02**			Prepared & Analyzed: 06/11/07						
Chloride	542	20.0	mg/kg Wet	500	170	74.4	80-120			QM-10
Matrix Spike Dup (EF71105-MSD1)	**Source: 7F06023-02**			Prepared & Analyzed: 06/11/07						
Chloride	542	20.0	mg/kg Wet	500	170	74.4	80-120	0.00	20	QM-10
Reference (EF71105-SRM1)				Prepared & Analyzed: 06/11/07						
Chloride	53.2	10.0	mg/kg Wet	50.0		106	80-120			

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Notes and Definitions

QM-10	LCS/LCSD were analyzed in place of MS/MSD.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 6/12/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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: Tony Savoie
Company Name: S.W.G.S.
Company Address: 610 Commerce P.O. Box 1226
City/State/Zip: Jal, N.M. 88252
Telephone No: 505-395-2116 Fax No.:
Sampler Signature: Don Green e-mail:

Project Name: Red Byrd 8"
Project #: 2007-019
Project Loc: Monument
PO #:
Report Format: ☑ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: TF08022

283989

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TCLP: 8015M (GPH) 418.1	TOTAL: TPH TX 1005	TPH TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	3'E of MW@1'	0	1'	6-8-07	11:00		1	✓								S			✓				✓								✓	
02	3'E of MW@2'	1'	2'	"	"		1	✓								S			✓												✓	
03	3'E of MW@3'	2'	3'	"	"		1	✓								S			✓												✓	
04	3'E of MW@4'	3'	4'	"	"		1	✓								S			✓												✓	
05	3'E of MW@5'		5'	"	"		1	✓								S			✓												✓	
06	3'E of MW@6'		6'	"	"		1	✓								S			✓				✓					✓			✓	
07	3'E of MW@8'		8'	"	"		1	✓								S			✓				✓					✓			✓	
08	3'E of MW@12'		12'	"	"		1	✓								S			✓				✓					✓			✓	
09	3'N of MW@15'		15'	"	14:00		1	✓								S			✓				✓					✓				

Special Instructions:

Relinquished by	Date	Time	Received by:	Date	Time
Don Green	6-8-07	17:00			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Cindy Lam	6-8-07	17:00

Laboratory Comments:

Sample Containers Intact?	Y (N)
VOCs Free of Headspace?	Y N
Labels on container(s)	Y N
Custody seals on container(s)	Y N (N)
Custody seals on cooler(s)	Y (N)
Sample Hand Delivered by Sampler/Client Rep. ?	(Y) N
by Courier? UPS DHL FedEx Lone Star	N

4.02.91455

Temperature Upon Receipt: 2.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: S.U.G.S. - Jal

Date/ Time: 6-8-07 17:00

Lab ID #: 7F08022

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	2.5 °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?	Yes	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?	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	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Tony Savoie

Southern Union Gas Services- Jal

P.O. Box 1226

Jal, NM 88252

Project: Red Byrd 8"

Project Number: 2007-019

Location: Monument

Lab Order Number: 7F13018

Report Date: 06/18/07

Southern Union Gas Services- Jal	Project: Red Byrd 8"	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2007-019	
Jal NM, 88252	Project Manager: Tony Savoie	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-Comp.	7F13018-01	Soil	06/12/07 16:25	06-13-2007 10:48

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Southern Union Gas Services- Jal	Project: Red Byrd 8"	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2007-019	
Jal NM, 88252	Project Manager: Tony Savoie	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-Comp. (7F13018-01) Soil									
Chloride	**383**	5.00	mg/L	1	EF71517	06/15/07	06/15/07	SW846-9253	

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Southern Union Gas Services- Jal	Project: Red Byrd 8"	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2007-019	
Jal NM, 88252	Project Manager: Tony Savoie	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF71517 - General Preparation (WetChem)										
Blank (EF71517-BLK1)				Prepared & Analyzed: 06/15/07						
Chloride	0.00	5.00	mg/L							
LCS (EF71517-BS1)				Prepared & Analyzed: 06/15/07						
Chloride	94.7	5.00	mg/L	100		94.7	80-120			
Matrix Spike (EF71517-MS1)	**Source: 7F13011-03**			Prepared & Analyzed: 06/15/07						
Chloride	468	5.00	mg/L	500	42.5	85.1	80-120			
Matrix Spike Dup (EF71517-MSD1)	**Source: 7F13011-03**			Prepared & Analyzed: 06/15/07						
Chloride	468	5.00	mg/L	500	42.5	85.1	80-120	0.00	20	
Reference (EF71517-SRM1)				Prepared & Analyzed: 06/15/07						
Chloride	53.2	5.00	mg/L	50.0		106	80-120			

Southern Union Gas Services- Jal	Project: Red Byrd 8"	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2007-019	
Jal NM, 88252	Project Manager: Tony Savoie	

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 6/18/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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: TONY SAVOIE
Company Name: S.U.G.S.
Company Address: 610 COMMERCE PO Box 1226
City/State/Zip: JAL, NM. 88252
Telephone No: 505-395-2116 Fax No:
Sampler Signature: D Green e-mail:

Project Name: RED BYRD 8"
Project #: 2007-019
Project Loc: MONUMENT
PO #:
Report Format: ☑ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 7F13018

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP 8015B	TPH TX 1005	TPH TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	TCLP Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
284211																													
01	SP-Comp.	0	15'	6-12-07	4:25		1	✓								5					✓									✓

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Don Green	6-13-07	10:48			
Relinquished by:	Date	Time	Received by	Date	Time
Relinquished by:	Date	Time	Received by ELOT	Date	Time
			Andrea Lam	6-13-07	10:48

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N/A
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star
4 oz glass
Temperature Upon Receipt: 2.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: S.U.G.S. - Jal

Date/ Time: 6.13.07 10:48

Lab ID #: 7F13018

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	~~Yes~~	No	2.5 °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?	~~Yes~~	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?	~~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	
#10	Sample matrix/ properties agree with Chain of Custody?	~~Yes~~	No		
#11	Containers supplied by ELOT?	~~Yes~~	No		
#12	Samples in proper container/ bottle?	~~Yes~~	No	See Below	
#13	Samples properly preserved?	~~Yes~~	No	See Below	
#14	Sample bottles intact?	~~Yes~~	No		
#15	Preservations documented on Chain of Custody?	~~Yes~~	No		
#16	Containers documented on Chain of Custody?	~~Yes~~	No		
#17	Sufficient sample amount for indicated test(s)?	~~Yes~~	No	See Below	
#18	All samples received within sufficient hold time?	~~Yes~~	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	~~Not Applicable~~	
#20	VOC samples have zero headspace?	Yes	No	~~Not Applicable~~	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

ENVIRONMENTAL LAB OF
12600 West I-20 East - Odessa, Texas 79765
A Xenco Laboratories Company

Analytical Report

Prepared for:

Tony Savoie

Southern Union Gas Services- Jal

P.O. Box 1226

Jal, NM 88252

Project: Red Byrd 8"

Project Number: 2007-019

Location: Monument

Lab Order Number: 7F15011

Report Date: 06/22/07

Southern Union Gas Services- Jal	Project: Red Byrd 8"	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2007-019	
Jal NM, 88252	Project Manager: Tony Savoie	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P.R. @ 15'	7F15011-01	Soil	06/15/07 10:30	06-15-2007 15:16
EW-Comp.	7F15011-02	Soil	06/15/07 10:30	06-15-2007 15:16
WW-Comp.	7F15011-03	Soil	06/15/07 10:30	06-15-2007 15:16
NW-Comp.	7F15011-04	Soil	06/15/07 10:30	06-15-2007 15:16
B-Comp.	7F15011-05	Soil	06/15/07 10:30	06-15-2007 15:16

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

Project: Red Byrd 8"
Project Number: 2007-019
Project Manager: Tony Savoie

Fax: 505-395-2326

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P.R. @ 15' (7F15011-01) Soil									
Benzene	**26.5**	0.200	mg/kg dry	200	EF72011	06/20/07	06/20/07	EPA 8021B	
Toluene	**98.4**	0.200	"	"	"	"	"	"	
Ethylbenzene	**99.0**	0.200	"	"	"	"	"	"	
Xylene (p/m)	**183**	0.200	"	"	"	"	"	"	
Xylene (o)	**64.6**	0.200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*322 %*	*75-125*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*256 %*	*75-125*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**9310**	50.0	mg/kg dry	5	EF71508	06/15/07	06/18/07	EPA 8015M	
Carbon Ranges C12-C28	**201**	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	50.0	"	"	"	"	"	"	
Total Hydrocarbons	**9510**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*31.0 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*20.0 %*	*70-130*		"	"	"	"	*S-06*
EW-Comp. (7F15011-02) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF71508	06/15/07	06/18/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*109 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*111 %*	*70-130*		"	"	"	"	
WW-Comp. (7F15011-03) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF71508	06/15/07	06/18/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*80.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*87.8 %*	*70-130*		"	"	"	"	

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Jal NM, 88252	Project Manager: Tony Savoie	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NW-Comp. (7F15011-04) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF71508	06/15/07	06/18/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*86.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*97.4 %*	*70-130*		"	"	"	"	
B-Comp, (7F15011-05) Soil									
Carbon Ranges C6-C12	**306**	10.0	mg/kg dry	1	EF72007	06/20/07	06/20/07	EPA 8015M	
Carbon Ranges C12-C28	**1560**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**338**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**2200**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*90.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*86.0 %*	*70-130*		"	"	"	"	

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Southern Union Gas Services- Jal	Project: Red Byrd 8"	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2007-019	
Jal NM, 88252	Project Manager: Tony Savoie	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P.R. @ 15' (7F15011-01) Soil									
Chloride	**539**	10.0	mg/kg	20	EF72008	06/20/07	06/20/07	EPA 300.0	
% Moisture	**10.6**	0.1	%	1	EF71901	06/18/07	06/18/07	% calculation	
EW-Comp. (7F15011-02) Soil									
Chloride	**1810**	50.0	mg/kg	100	EF72008	06/20/07	06/20/07	EPA 300.0	
% Moisture	**6.1**	0.1	%	1	EF71901	06/18/07	06/18/07	% calculation	
WW-Comp. (7F15011-03) Soil									
Chloride	**1840**	25.0	mg/kg	50	EF72008	06/20/07	06/20/07	EPA 300.0	
% Moisture	**8.1**	0.1	%	1	EF71901	06/18/07	06/18/07	% calculation	
NW-Comp. (7F15011-04) Soil									
Chloride	**903**	20.0	mg/kg	40	EF72008	06/20/07	06/20/07	EPA 300.0	
% Moisture	**6.6**	0.1	%	1	EF71901	06/18/07	06/18/07	% calculation	
B-Comp. (7F15011-05) Soil									
Chloride	**537**	10.0	mg/kg	20	EF72008	06/20/07	06/20/07	EPA 300.0	
% Moisture	**8.9**	0.1	%	1	EF71901	06/18/07	06/18/07	% calculation	

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Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF71508 - Solvent Extraction (GC)										
Blank (EF71508-BLK1)				Prepared: 06/15/07 Analyzed: 06/18/07						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	*46.5*		*mg/kg*	*50.0*		*93.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.9*		"	*50.0*		*93.8*	*70-130*			
LCS (EF71508-BS1)				Prepared: 06/15/07 Analyzed: 06/18/07						
Carbon Ranges C6-C12	617	10.0	mg/kg wet	500		123	75-125			
Carbon Ranges C12-C28	548	10.0	"	500		110	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1160	10.0	"	1000		116	75-125			
Surrogate: 1-Chlorooctane	*59.1*		*mg/kg*	*50.0*		*118*	*70-130*			
Surrogate: 1-Chlorooctadecane	*55.9*		"	*50.0*		*112*	*70-130*			
Calibration Check (EF71508-CCV1)				Prepared: 06/15/07 Analyzed: 06/21/07						
Carbon Ranges C6-C12	224		mg/kg	250		89.6	80-120			
Carbon Ranges C12-C28	222		"	250		88.8	80-120			
Total Hydrocarbons	447		"	500		89.4	80-120			
Surrogate: 1-Chlorooctane	*48.8*		"	*50.0*		*97.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.4*		"	*50.0*		*92.8*	*70-130*			
Matrix Spike (EF71508-MS1)	**Source: 7F14027-07**			Prepared: 06/15/07 Analyzed: 06/20/07						
Carbon Ranges C6-C12	691	10.0	mg/kg dry	633	ND	109	75-125			
Carbon Ranges C12-C28	574	10.0	"	633	ND	90.7	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1270	10.0	"	1270	ND	100	75-125			
Surrogate: 1-Chlorooctane	*51.6*		*mg/kg*	*50.0*		*103*	*70-130*			
Surrogate: 1-Chlorooctadecane	*41.6*		"	*50.0*		*83.2*	*70-130*			

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF71508 - Solvent Extraction (GC)										
Matrix Spike Dup (EF71508-MSD1)	**Source: 7F14027-07**			Prepared: 06/15/07 Analyzed: 06/20/07						
Carbon Ranges C6-C12	698	10.0	mg/kg dry	633	ND	110	75-125	0.913	20	
Carbon Ranges C12-C28	595	10.0	"	633	ND	94.0	75-125	3.57	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1290	10.0	"	1270	ND	102	75-125	1.98	20	
Surrogate: 1-Chlorooctane	*52.6*		*mg/kg*	*50.0*		*105*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.7*		"	*50.0*		*87.4*	*70-130*			
Batch EF72007 - Solvent Extraction (GC)										
Blank (EF72007-BLK1)				Prepared & Analyzed: 06/20/07						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	*43.9*		*mg/kg*	*50.0*		*87.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*41.1*		"	*50.0*		*82.2*	*70-130*			
LCS (EF72007-BS1)				Prepared & Analyzed: 06/20/07						
Carbon Ranges C6-C12	568	10.0	mg/kg wet	500		114	75-125			
Carbon Ranges C12-C28	479	10.0	"	500		95.8	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1050	10.0	"	1000		105	75-125			
Surrogate: 1-Chlorooctane	*50.6*		*mg/kg*	*50.0*		*101*	*70-130*			
Surrogate: 1-Chlorooctadecane	*41.9*		"	*50.0*		*83.8*	*70-130*			
Calibration Check (EF72007-CCV1)				Prepared & Analyzed: 06/20/07						
Carbon Ranges C6-C12	216		mg/kg	250		86.4	80-120			
Carbon Ranges C12-C28	232		"	250		92.8	80-120			
Total Hydrocarbons	448		"	500		89.6	80-120			
Surrogate: 1-Chlorooctane	*49.8*		"	*50.0*		*99.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.8*		"	*50.0*		*89.6*	*70-130*			

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF72007 - Solvent Extraction (GC)										
Matrix Spike (EF72007-MS1)	**Source: 7F15012-01**			Prepared & Analyzed: 06/20/07						
Carbon Ranges C6-C12	584	10.0	mg/kg dry	508	ND	115	75-125			
Carbon Ranges C12-C28	498	10.0	"	508	ND	98.0	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1080	10.0	"	1020	ND	106	75-125			
Surrogate: 1-Chlorooctane	*53.5*		*mg/kg*	*50.0*		*107*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.5*		"	*50.0*		*91.0*	*70-130*			
Matrix Spike Dup (EF72007-MSD1)	**Source: 7F15012-01**			Prepared & Analyzed: 06/20/07						
Carbon Ranges C6-C12	579	10.0	mg/kg dry	508	ND	114	75-125	0.873	20	
Carbon Ranges C12-C28	500	10.0	"	508	ND	98.4	75-125	0.407	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1080	10.0	"	1020	ND	106	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*49.9*		*mg/kg*	*50.0*		*99.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*42.6*		"	*50.0*		*85.2*	*70-130*			
Batch EF72011 - EPA 5030C (GC)										
Blank (EF72011-BLK1)				Prepared & Analyzed: 06/20/07						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*48.0*		*ug/kg*	*50.0*		*96.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*43.8*		"	*50.0*		*87.6*	*75-125*			
LCS (EF72011-BS1)				Prepared & Analyzed: 06/20/07						
Benzene	0.0421	0.00100	mg/kg wet	0.0500		84.2	80-120			
Toluene	0.0430	0.00100	"	0.0500		86.0	80-120			
Ethylbenzene	0.0459	0.00100	"	0.0500		91.8	80-120			
Xylene (p/m)	0.0807	0.00100	"	0.100		80.7	80-120			
Xylene (o)	0.0450	0.00100	"	0.0500		90.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*48.0*		*ug/kg*	*50.0*		*96.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*47.1*		"	*50.0*		*94.2*	*75-125*			

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

Project: Red Byrd 8"
Project Number: 2007-019
Project Manager: Tony Savoie

Fax: 505-395-2326

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF72011 - EPA 5030C (GC)										
Calibration Check (EF72011-CCV1)				Prepared: 06/20/07 Analyzed: 06/21/07						
Benzene	0.0474		mg/kg wet	0.0500		94.8	80-120			
Toluene	0.0477		"	0.0500		95.4	80-120			
Ethylbenzene	0.0470		"	0.0500		94.0	80-120			
Xylene (p/m)	0.0853		"	0.100		85.3	80-120			
Xylene (o)	0.0488		"	0.0500		97.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*48.3*		*ug/kg*	*50.0*		*96.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*46.3*		*"*	*50.0*		*92.6*	*75-125*			
Matrix Spike (EF72011-MS1)	**Source: 7F20001-01**			Prepared: 06/20/07 Analyzed: 06/21/07						
Benzene	0.0982	0.00200	mg/kg dry	0.110	ND	89.3	80-120			
Toluene	0.102	0.00200	"	0.110	ND	92.7	80-120			
Ethylbenzene	0.107	0.00200	"	0.110	ND	97.3	80-120			
Xylene (p/m)	0.186	0.00200	"	0.220	ND	84.5	80-120			
Xylene (o)	0.105	0.00200	"	0.110	ND	95.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	*39.2*		*ug/kg*	*50.0*		*78.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*42.1*		*"*	*50.0*		*84.2*	*75-125*			
Matrix Spike Dup (EF72011-MSD1)	**Source: 7F20001-01**			Prepared: 06/20/07 Analyzed: 06/21/07						
Benzene	0.0891	0.00200	mg/kg dry	0.110	ND	81.0	80-120	9.75	20	
Toluene	0.0900	0.00200	"	0.110	ND	81.8	80-120	12.5	20	
Ethylbenzene	0.0952	0.00200	"	0.110	ND	86.5	80-120	11.8	20	
Xylene (p/m)	0.166	0.00200	"	0.220	ND	75.5	80-120	11.2	20	M8
Xylene (o)	0.0924	0.00200	"	0.110	ND	84.0	80-120	12.8	20	
Surrogate: a,a,a-Trifluorotoluene	*44.6*		*ug/kg*	*50.0*		*89.2*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*42.3*		*"*	*50.0*		*84.6*	*75-125*			

Southern Union Gas Services- Jal	Project: Red Byrd 8"	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2007-019	
Jal NM, 88252	Project Manager: Tony Savoie	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF71901 - General Preparation (Prep)										
Blank (EF71901-BLK1)				Prepared & Analyzed: 06/18/07						
% Solids	100		%							
Duplicate (EF71901-DUP1)		**Source: 7F15011-01**		Prepared & Analyzed: 06/18/07						
% Solids	88.9		%		89.4			0.561	20	
Duplicate (EF71901-DUP2)		**Source: 7F18001-01**		Prepared & Analyzed: 06/18/07						
% Solids	90.3		%		91.3			1.10	20	
Batch EF72008 - General Preparation (WetChem)										
Blank (EF72008-BLK1)				Prepared & Analyzed: 06/20/07						
Chloride	ND	0.500	mg/kg							
LCS (EF72008-BS1)				Prepared & Analyzed: 06/20/07						
Chloride	9.70	0.500	mg/kg	10.0		97.0	80-120			
Calibration Check (EF72008-CCV1)				Prepared & Analyzed: 06/20/07						
Chloride	10.3		mg/kg	10.0		103	80-120			
Duplicate (EF72008-DUP1)		**Source: 7F15011-05**		Prepared & Analyzed: 06/20/07						
Chloride	526	10.0	mg/kg		537			2.07	20	
Matrix Spike (EF72008-MS1)		**Source: 7F15011-05**		Prepared & Analyzed: 06/20/07						
Chloride	735	10.0	mg/kg	200	537	99.0	80-120			

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

Southern Union Gas Services- Jal	Project: Red Byrd 8"	Fax: 505-395-2326
P.O. Box 1226	Project Number: 2007-019	
Jal NM, 88252	Project Manager: Tony Savoie	

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 6/22/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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: Tony Savoie
Company Name: S.W.G.S.
Company Address: 610 Commerce P.O. Box 1226
City/State/Zip: Jal, N.M. 88252
Telephone No: 505-395-2116 Fax No:
Sampler Signature: Don Green e-mail:

Project Name: Red Byrd 8"
Project #: 2007-019
Project Loc: Monument
PO #:
Report Format: ☑ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 7F15011

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP TOTAL: TPH 418.1 / 8015M	TPH: TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 5021B/5030 or BTEX 8260	RCI	NORM	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
284368																													
01	P.R. @ 15'		15'	6-15-07	10:30		1	✓								S	✓			✓					✓				✓
02	EW-Comp.	0	15'	"	"		1	✓								S	✓			✓									✓
03	WW-Comp.	0	15'	"	"		1	✓								S	✓			✓									✓
04	NW-Comp	0	15'	"	"		1	✓								S	✓			✓									✓
05	B-Comp.		15'	"	"		1	✓								S	✓			✓									✓

Special Instructions:

Relinquished by	Date	Time	Received by:	Date	Time
Don Green	6-15-07	15:16			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Lann	Date: 6 15 07	Time: 15:16

Laboratory Comments:
Sample Containers Intact? N
VOCs Free of Headspace? N
Labels on container(s) N
Custody seals on container(s) N
Custody seals on cooler(s) N
Sample Hand Delivered by Sampler/Client Rep ? N
by Courier? UPS DHL FedEx Lone Star
210-9155
Temperature Upon Receipt: 4.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: S.U.G.S. - Jal

Date/ Time: 6.15.07 15:16

Lab ID # : 7FISC11

Initials: GL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	4.5 °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?	Yes	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?	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	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

CARDINAL LABORATORIES

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

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

Receiving Date: 10/01/08
Reporting Date: 10/03/08
Project Number: 2007-019
Project Name: BYRD 8"
Project Location: S.W. OF MONUMENT, NM

Sampling Date: 10/01/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: AB

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)
ANALYSIS DATE		10/02/08	10/02/08
H16018-1	B-1	<25.0	<25.0
H16018-2	B-2	<25.0	<25.0
H16018-3	B-3	<25.0	33.7
H16018-4	B-4	<25.0	28.7
H16018-5	B-5	<25.0	<25.0
H16018-6	B-6	<25.0	<25.0
H16018-7	B-7	<25.0	<25.0
H16018-8	B-8	370	2,030
H16018-9	B-9	<25.0	<25.0
H16018-10	B-10	<25.0	<25.0
H16018-11	B-11	932	3,350
H16018-12	B-12	609	2,050
H16018-13	B-13	376	2,640
H16018-14	B-14	152	1,340
H16018-15	B-16	814	4,010
H16018-16	B-17	817	2,920
H16018-17	B-15	1,290	5,200
Quality Control		542	566
True Value QC		500	500
% Recovery		108	113
Relative Percent Difference		2.5	4.7

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

Chemist

10/3/08
Date

H16018 T SUGS

CARDINAL LABORATORIES

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

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

Receiving Date: 10/01/08
Reporting Date: 10/03/08
Project Number: 2007-019
Project Name: BYRD 8"
Project Location: S.W. OF MONUMENT, NM

Sampling Date: 10/01/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: ZL/HM

LAB NUMBE SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE	10/02/08	10/02/08	10/02/08	10/02/08
H16018-3 B-3	<0.050	<0.050	<0.050	<0.150
H16018-7 B-7	<0.050	<0.050	<0.050	<0.150
H16018-11 B-11	0.297	0.996	2.49	7.22
H16018-12 B-12	0.075	0.536	1.66	4.57
H16018-16 B-17	0.098	0.580	1.74	5.01
Quality Control	0.053	0.050	0.051	0.164
True Value QC	0.050	0.050	0.050	0.150
% Recovery	106	100	102	109
Relative Percent Difference	5.4	1.2	3.7	2.5

METHODS: BTEX - EPA SW-846-8021B

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

Chemist

10/3/08
Date

H16018 BCL SUAS

CARDINAL LABORATORIES

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

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

Receiving Date: 10/01/08
Reporting Date: 10/03/08
Project Number: 2007-019
Project Name: BYRD 8"
Project Location: S.W. OF MONUMENT

Analysis Date: 10/02/08
Sampling Date: 10/01/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl^- (mg/kg)
H16018-2	B-2	48
H16018-7	B-7	< 16
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods	4500-ClB

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

Chemist

10-03-08
Date

H16018 SUGS

CARDINAL LABORATORIES

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

Company Name:	S.U.G.S.	**BILL TO**	
Project Manager:	Tony SAVOIE	P.O. #:	
Address:	610 COMMERCE P.O. Box 1226	Company:	
City:	JAL State: NM Zip: 88252	Attn:	
Phone #:	575-395-2116 Fax #:	Address:	
Project #:	2007-019 Project Owner:	City:	
Project Name:	Byrd 8"	State: Zip:	
Project Location:	SW of Monument	Phone #:	
Sampler Name:	Don GREEN	Fax #:	

ANALYSIS REQUEST: TPH 8015 | BTEX | Cl

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE/COOL	OTHER:	SAMPLING: DATE	TIME	TPH 8015	BTEX	Cl
H16608-17	SOIL CENTER POINT 8"	G	1			✓					✓		10/1/08	9:20	✓		
-1	B-1	"	1			✓					✓		"	2:30	✓		
-2	B-2	"	1			✓					✓		"	"	✓		✓
-3	B-3	"	1			✓					✓		"	"	✓	✓	
4	B-4	"	1			✓					✓		"	"	✓		
5	B-5	"	1			✓					✓		"	"	✓		
6	B-6	"	1			✓					✓		"	"	✓	✓	✓
7	B-7	"	1			✓					✓		"	"	✓	✓	✓
-8	B-8	"	1			✓					✓		"	"	✓		
-9	B-9	"	1			✓					✓		"	"	✓		

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished: Don Green	Date: 10/1-08 Time: 14:13	Received By: Misty LeBeau	
Relinquished By:	Date: Time:	Received By:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Temp.	Sample Condition: Cool/ Intact ☑ Yes ☑ Yes ☐ No ☐ No	CHECKED BY: (Initials) MCAB

Phone Result:	☐	No	Add'l Phone #:
Fax Result:	☐	No	Add'l Fax #:
REMARKS:			

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

CARDINAL LABORATORIES

101 East Mariland, Hobbs, NM 88240
(575) 393-2326 Fax (575) 393-2476

Company Name:	S.W.G.S.
Project Manager:	TONY SAVOIE
Address:	610 COMMERCE P.O. Box 1226
City:	JAL State: NM Zip: 88252
Phone #:	575-395-2116 Fax #:
Project #:	2007-019 Project Owner:
Project Name:	Byrd 8"
Project Location:	SW of MONUMENT
Sampler Name:	Jon Green

BILL TO

P.O. #:	
Company:	
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	TPH 8015	BTEX	CL
H16018-10	B-10	G	1			✓					✓		10-1-08	2:30	✓		
-11	B-11	G	1			✓					✓		"	"	✓	✓	
-12	B-12	G	1			✓					✓		"	"	✓	✓	
-13	B-13	G	1			✓					✓		"	"	✓		
-14	B-14	G	1			✓					✓		"	"	✓		
-15	B-16	G	1			✓					✓		"	"	✓		
-16	B-17	G	1			✓					✓		"	"	✓	✓	

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 10-1-08	Received By:	
Jon Green	Time: 14:13		
Relinquished By:	Date:	Received By:	
	Time:		

Delivered By: (Circle One) Temp.

Sampler - UPS - Bus - Other:

Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No

CHECKED BY: (Initials)

Phone Result:	☐	No	Add'l Phone #:
Fax Result:	☐	No	Add'l Fax #:
REMARKS:			

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

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

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

Surface Owner: ~~Federal~~ Red Byrd	Mineral Owner: ~~Federal~~ State of NM	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	1	20S	36E					Lea

Latitude N32 36.199 Longitude W103 18.066

NATURE OF RELEASE

Type of Release : Natural Gas and Water	Volume of Release: Less than 2 bbls of water and 50 MCF Gas	Volume Recovered None
Source of Release : 6" Natural Gas Pipeline	Date and Hour of Occurrence Not Known	Date and Hour of Discovery Not Known
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

JUN 2007
Received
Hobbs
OCD

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
A natural gas pipeline developed a leak operating at less than 35 PSI. The leak was excavated and the affected area was temporarily repaired with a 8" leak clamp. The line will be purged and disconnected from the system.

Describe Area Affected and Cleanup Action Taken. The area affected by the release measured approximately 30 ft. by 20 ft. all pasture land. The impacted soil will be remediated in accordance with the NMOCD Guidelines for the Remediation of Leaks and Spills.

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

Signature: Tony Savoie	OIL CONSERVATION DIVISION
Printed Name: John A. Savoie	Approved by District ~~Supervisor~~: ENVIRO ENGR
Title: Remediation Supervisor	Approval Date: 6-29-07 Expiration Date: 9-10-07
E-mail Address: tony.savoie@sug.com	Conditions of Approval: SUBMITTAL OF FINAL C-141 & DOCUMENTATION BY
Date: 6/8/07 Phone: 505-395-2116	Attached ☐

* Attach Additional Sheets If Necessary

RP# 1463