District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

37

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Southern Union Gas Services	Contact Rose Slade
Address PO Box 1226 Jal, New Mexico 88252	Telephone No. 432.940.5147 or 817.302.9716
Facility Name G-Loop Line 8-Inch Lateral	Facility Type Natural Gas Pipeline

Surface Owner El Paso Natural Gas	Mineral Owner	API No. 30-025-38822

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	7	26S	37E					Lea

Latitude 32.06025 **Longitude** 103.19775

NATURE OF RELEASE

Type of Release Crude Oil and Produced Water	Volume of Release 6 BBLS sulfide	Volume Recovered 0 BBLS
Source of Release 8-Inch Steel Pipeline	Date and Hour of Occurrence Unknown	Date and Hour of Discovery July 1, 2010 1140 hrs
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.	

HOBBS OCD

MAR 01 2013

RECEIVED

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Internal corrosion caused a failure of an 8-Inch steel pipeline, resulting in a surface stain of approximately 1,000 square feet. The pipeline was fitted with a temporary pipeline clamp to mitigate the release. No H2S was detected from the release.

Describe Area Affected and Cleanup Action Taken.* The area was excavated and soil samples were collected from the excavation and remediated stockpiled soil and submitted to the laboratory for benzene, BTEX, TPH and chloride analysis. Laboratory results indicated benzene, BTEX, TPH, and chloride concentrations were less than the NMOCD Regulatory Guidelines. The excavation was backfilled with the remediated stockpiled soil. Please reference the NOVA Safety and Environmental Soil Remediation Summary and Site Closure Request dated February 2013 for further 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 Slade

Printed Name: Rose Slade

Title: EH&S Specialist

E-mail Address: rose.slade@sug.com

Date: 3/1/2013 Phone: 432.940.5147

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Geotechnical Specialist

Approval Date: 3/1/13 Expiration Date: -

Conditions of Approval: -

Attached ☐

1RP-2581

* Attach Additional Sheets If Necessary

MAR 04 2013

SOIL REMEDIATION SUMMARY

AND SITE

CLOSURE REQUEST

Southern Union Gas Services
G-Loop Line 8-Inch Lateral Historical Release Site
Lea County, New Mexico
UNIT LTR "G" (SW ¼ /NE ¼), Section 7, Township 26 South, Range 37 East
Latitude 32.06025° North, Longitude 103.19775° West
NMOCD Reference # 1RP-2581

NOVA
safety and environmental

Prepared For:

Southern Union Gas Services
801 South Loop 464
Monahans, Texas 79756

Prepared By:

NOVA Safety & Environmental
2057 Commerce
Midland, Texas 79703

February 2013

Camille J. Bryant
Project Manager

Brittan K. Byerly, P.G.
President

TABLE OF CONTENTS

1.0 INTRODUCTION

Nova Safety & Environmental (NOVA), on behalf of Southern Union Gas Services (SUGS), has prepared this Soil Remediation Summary and Site Closure Request for the G-Loop Line 8-Inch Lateral Historical Release Site. The legal description of the release site is Unit Letter "G" (SW ¼ NE ¼), Section 7, Township 26 South, Range 37 East, in Lea County, New Mexico. The property affected by the release is owned by El Paso Natural Gas Services. The release site GPS coordinates are 32.06025° North and 103.19775° West. Please reference Figure 1 for a Site Location Map and Figure 2 for a Site Details Schematic and Confirmation Soil Sample Locations Map. The Release Notification and Corrective Action (Form C-141) is provided as Appendix C.

On July 1, 2010, SUGS discovered a release of crude oil and produced water had occurred from an 8-inch steel pipeline. The cause of the release was attributed to failure of a segment of the 8-inch steel pipeline. The pipeline was fitted with a temporary pipeline clamp to mitigate the release. SUGS submitted the Release Notification and Corrective Action (Form C-141) to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office on July 13, 2010. The C-141 indicated approximately six (6) barrels of crude oil/produced water were released from the pipeline, with no recovery. General photographs of the site are provided as Appendix B.

SUGS has researched and identified various historical release sites located in New Mexico. At the request of SUGS, NOVA has reviewed the historical data for these sites and conducted the necessary activities to ensure the sites meet the criteria for closure in accordance with NMOCD regulatory guidelines.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Office of the State Engineer (NMOSE) database did not identify the average depth to groundwater information for Section 7, Township 26 South, Range 37 East. A reference map utilized by the NMOCD indicated depth to groundwater at the release site should be encountered at approximately one hundred (100) feet below ground surface (bgs). The depth to groundwater at the G-Loop Line 8-Inch Lateral Historical Release Site results in a score of ten (10) points being assigned to the site, based on the NMOCD depth to groundwater criteria.

The water well database, maintained by the NMOSE, indicated there are no water wells less than 1,000 feet from the release, resulting in zero (0) points being assigned to this site as a result of this criteria.

There are no surface water bodies located within 1,000 feet of the site. Based on the NMOCD ranking system zero (0) points will be assigned to the site as a result of the criteria.

The NMOCD guidelines indicate the G-Loop line 8-Inch Lateral Historical Release Site has ranking score of ten (10). Based on this score, the soil remediation levels for a site with a ranking score of ten (10) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- BTEX – 50 mg/Kg (ppm)
- TPH – 1,000 mg/Kg (ppm)

The NMOCD chloride cleanup level concentrations are site specific and will be determined by the NMOCD Hobbs District Office.

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On January 7, 2013, NOVA at the request of SUGS, commenced remediation activities at the G-Loop Line 8-Inch Lateral Historical Release Site. Approximately 100 (cy) cubic yards of impacted soil was excavated and stockpiled on-site, pending final disposition. The resulting excavation measured approximately ten (10) feet in length, approximately ten (10) feet in width, and approximately four (4) feet in depth. Please reference Figure 2 for site details.

On January 7, 2013, one (1) soil sample (RP @ 4') was collected from excavation and submitted to the laboratory for determination of concentrations of benzene, toluene, ethyl-benzene, and xylene (BTEX), total petroleum hydrocarbons (TPH), and chlorides using EPA SW-846 8012b, 8015M, and E 300, respectively. The analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate laboratory method detection limits (MDL). The soil sample exhibited a chloride concentration of 18.1 mg/Kg. A review of analytical results indicated benzene, BTEX, TPH, and chloride concentrations were less than NMOCD regulatory guidelines. Table 1 summarizes the Concentrations of BTEX, TPH, and Chlorides in Soil. Laboratory analytical reports are provided as Appendix A.

On January 8, 2013, four (4) soil samples (N S/W @ 3', E S/W @ 3', S S/W @ 3', and W S/W @ 3') were collected from the excavation and submitted to the laboratory for analysis. Laboratory analytical results indicated benzene, BTEX, and TPH concentrations were less than the appropriate laboratory MDL for all the submitted soil samples. Chloride concentrations ranged from 1.51 mg/Kg for soil sample S S/W @ 3' to 129 mg/Kg for soil sample E S/W @ 3'. A review of analytical results indicated benzene, BTEX, TPH, and chloride concentrations were less than NMOCD regulatory guidelines.

The excavated soil was stockpiled west of the excavation in a cleared area and remediated by mixing and blending methods. On January 8, 2013, one (1) composite sample was collected from the remediated soil and submitted to the laboratory for analysis. Laboratory analytical results indicated benzene and BTEX concentrations were less than the appropriate laboratory MDL. The soil sample exhibited a TPH concentration of 290 mg/Kg and a chloride concentration of 40.1 mg/Kg. A review of analytical results indicated benzene, BTEX, TPH, and chloride concentrations were less than NMOCD regulatory guidelines (Table 1).

On January 17, 2013, a NOVA representative met with a NMOCD Hobbs District Office representative to present the analytical results of the soil remediation activities, and request closure approval for the site. The NMOCD Hobbs District Office representative granted verbal approval to close the site

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil Samples were delivered to Xenco Laboratories, of Odessa, Texas for BTEX and/or TPH and/or chloride analyses using the methods described below. Soil samples were analyzed for BTEX and/or TPH and/or chloride concentrations within fourteen (14) days following the sampling event.

The soil samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8021B, 5030
- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO
- Chloride concentration in accordance with Method E 300.

4.2 Decontamination of Equipment

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

4.3 Laboratory Protocol

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

5.0 SITE CLOSURE REQUEST

Based on the analytical results of confirmation soil samples, NOVA recommends SUGS provide the NMOCD a copy of this Soil Remediation Summary and Site Closure Request and request the NMOCD grant final closure to the G-Loop Line 8-Inch Lateral Historical Release Site.

6.0 LIMITATIONS

NOVA Safety and Environmental has prepared this Soil Remediation Summary and Site Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

NOVA Safety and Environmental has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA Safety and Environmental 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. NOVA Safety and Environmental has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA Safety and Environmental 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 NOVA Safety and Environmental and/or Southern Union Gas.

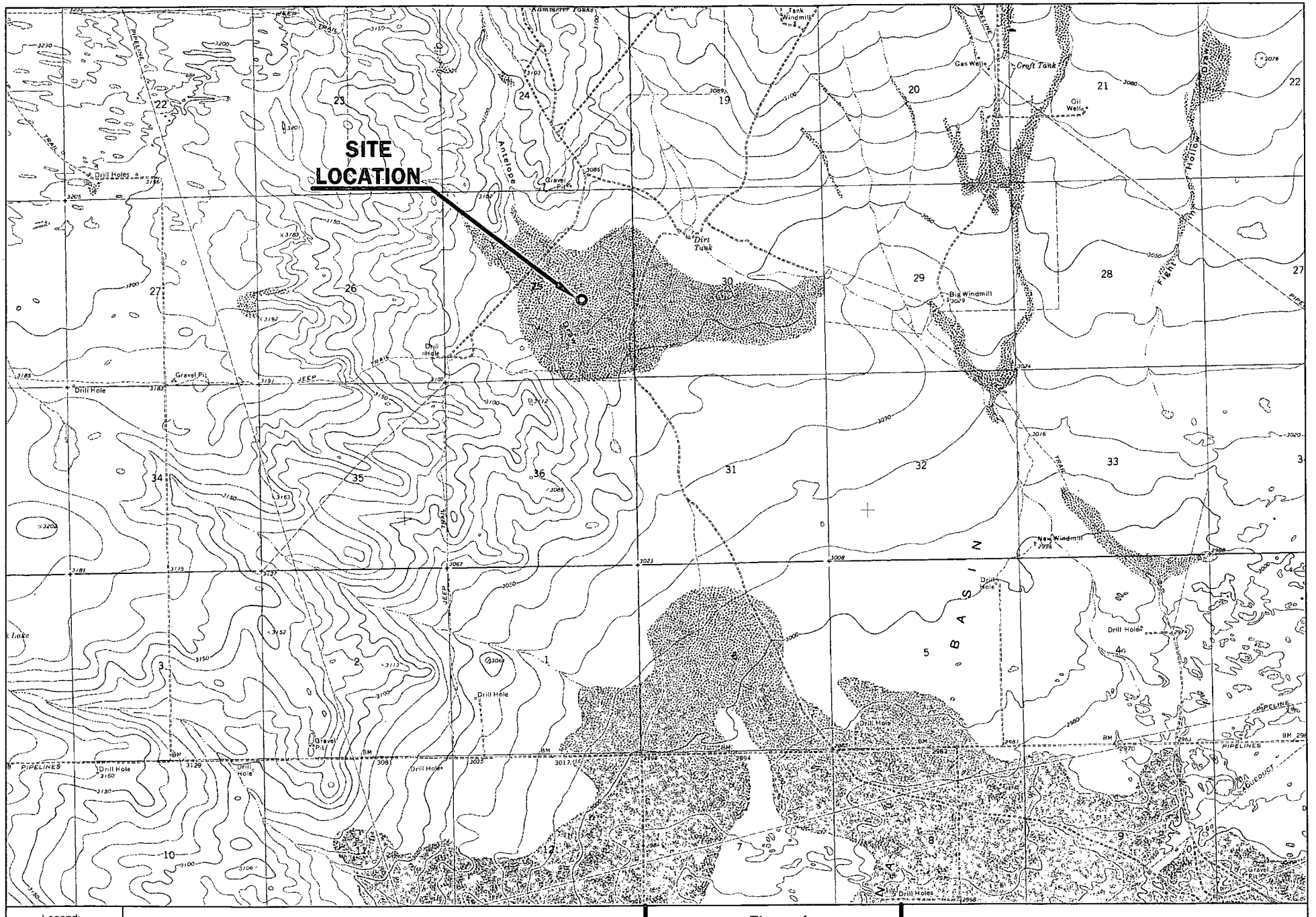
7.0 DISTRIBUTION:

Copy 1: Geoffrey Leking
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 1)
1625 French Drive
Hobbs, New Mexico 88240

Copy 2: Rose Slade
Southern Union Gas Services
801 South Loop 464
Monahans, Texas 79756

Copy 3: Nova Safety & Environmental
2057 Commerce Street
Midland, Texas 79703

FIGURES



Legend:

2000 1000 0 1000 2000

Distance in Feet

Figure 1

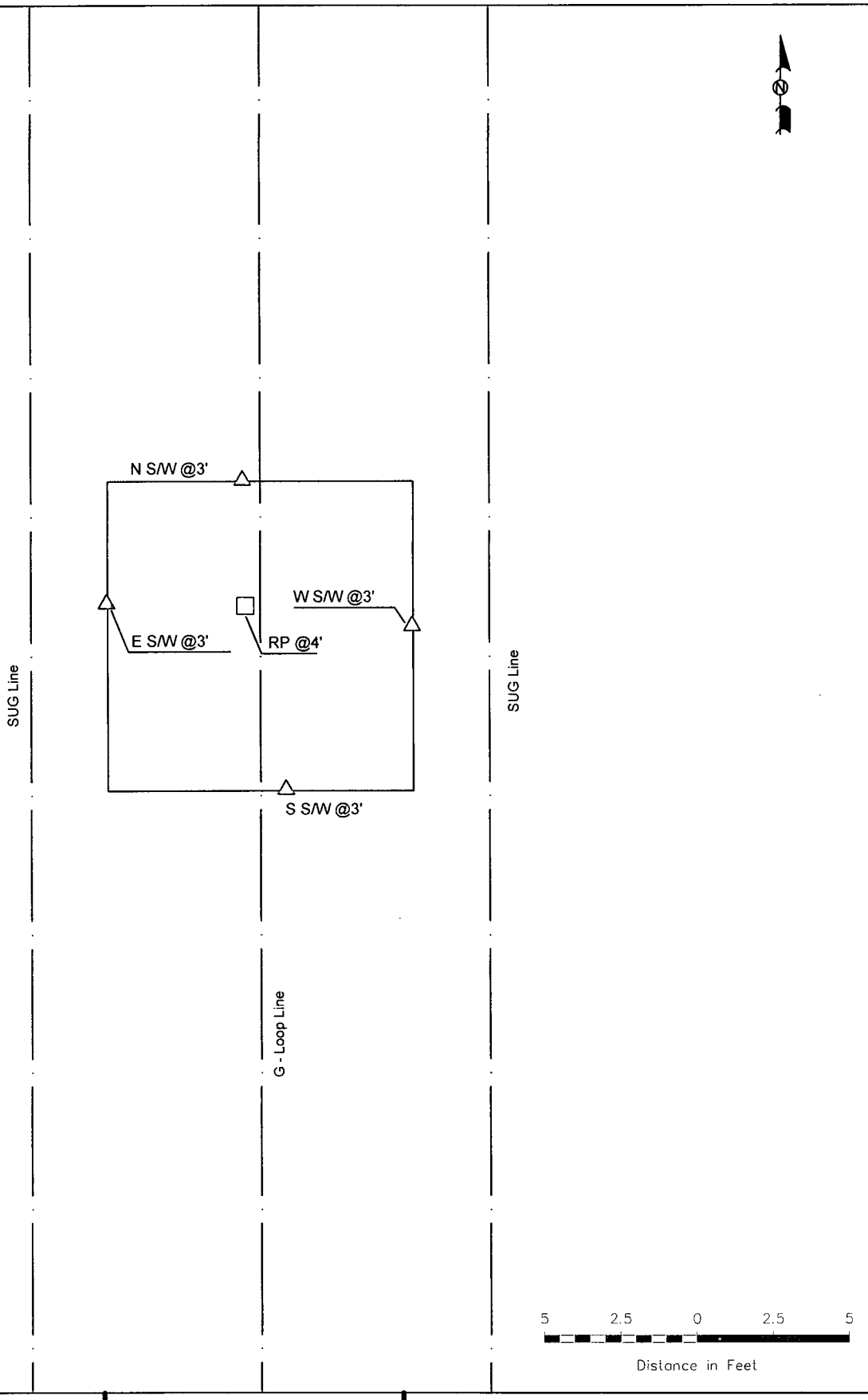
Site Location Map
Southern Union Gas Services
G-Loop 8" Lateral
Lea County, NM

NOVA safety and environmental

2057 Commerce Drive
Midland, Texas 79703
432.520.7720

www.novasafetyandenvironmental.com

February 11, 2013	Scale: 1" = 2000'	CAD By: CAS	Checked By:
Lat. 32 06' .025"	Long. W 103 19' .775"		



Legend:

- △ Sidewall Soil Sample Location
- —— Pipeline
- □ Floor Soil Sample Location

Figure 2
Site Details & Confirmation Soil Sample Locations
Southern Union Gas Services
G Loop 8" Latetral
Irion County, Tx

NOVA safety and environmental

www.novasafetyandenvironmental.com

February 13, 2013	Scale: 1"-5'	CAD By: CAS	Checked By:

Lat. N 32° 06' 0.025" Long. W 103° 19' 0.775"

TABLES

TABLE 1

CONCENTRATIONS OF BTEX, TPH AND CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES
G-LOOP LINE 8 INCH LATERAL HISTORICAL RELEASE SITE
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE # 1RP-2581

All concentrations are reported in mg/Kg

SAMPLE LOCATION	SAMPLE DATE	METHODS: SW 846-8021b						METHOD: SW 8015M				E 300.1
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	TOTAL BTEX	TPH GRO C_6-C_{12}	TPH DRO C_{12}-C_{28}	TPH ORO C_{28}-C_{35}	TOTAL TPH C_6-C_{35}	CHLORIDE
RP @ 4'	01/07/13	<0.00107	<0.00214	<0.00107	<0.00214	<0.00107	<0.00214	<16.0	<16.0	<16.0	<16.0	18.1
N S/W @ 3'	01/08/13	<0.00105	<0.00210	<0.00105	<0.00210	<0.00105	<0.00210	<15.8	<15.8	<15.8	<15.8	3.25
E S/W @ 3'	01/08/13	<0.00107	<0.00215	<0.00107	<0.00215	<0.00107	<0.00215	<16.1	<16.1	<16.1	<16.1	129
S S/W @ 3'	01/08/13	<0.00117	<0.00235	<0.00117	<0.00235	<0.00117	<0.00235	<17.7	<17.7	<17.7	<17.7	1.51
W S/W @ 3'	01/08/13	<0.00106	<0.00212	<0.00106	<0.00212	<0.00106	<0.00212	<16.0	<16.0	<16.0	<16.0	33.4
SP-1	01/08/13	<0.00103	<0.00206	<0.00103	<0.00206	<0.00103	<0.00206	<15.6	290	<15.6	290	40.1

APPENDICES

APPENDIX A:
Analytical Reports

Analytical Report 455312

for

Southern Union Gas Services- Monahans

Project Manager: Camille Bryant

SUGS Historical G-Loop Line 1RP-2581

16-JAN-13

Collected By: Client

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Lakeland: Florida (E84098)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

16-JAN-13

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

Reference: XENCO Report No(s): **455312**
SUGS Historical G-Loop Line 1RP-2581
Project Address: Lea County, New Mexico

Camille Bryant:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 455312. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 455312 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Nicholas Straccione
Project Manager

Sample Cross Reference 455312

Southern Union Gas Services- Monahans, Monahans, TX

SUGS Historical G-Loop Line 1RP-2581

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
RP @ 4'	S	01-07-13 15:30		455312-001
N S/W @ 3'	S	01-08-13 10:30		455312-002
E S/W @ 3'	S	01-08-13 10:40		455312-003
S S/W @ 3'	S	01-08-13 11:00		455312-004
W S/W @ 3'	S	01-08-13 11:30		455312-005
SP-1	S	01-08-13 16:00		455312-006

CASE NARRATIVE

Client Name: Southern Union Gas Services- Monahans
Project Name: SUGS Historical G-Loop Line 1RP-2581

Project ID:
Work Order Number(s): *455312*

Report Date: *16-JAN-13*
Date Received: *01/09/2013*

Sample receipt non conformances and comments:
None

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 455312

Southern Union Gas Services- Monahans, Monahans, TX

Project Name: SUGS Historical G-Loop Line 1RP-2581

Project Id:
Contact: Camille Bryant
Project Location: Lea County, New Mexico

Date Received in Lab: Wed Jan-09-13 11:07 am
Report Date: 16-JAN-13
Project Manager: Nicholas Straccione

Analysis Requested													
	Lab Id:	455312-001		455312-002		455312-003		455312-004		455312-005		455312-006	
	Field Id:	RP @ 4'		N S/W @ 3'		E S/W @ 3'		S S/W @ 3'		W S/W @ 3'		SP-1	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-07-13 15:30		Jan-08-13 10:30		Jan-08-13 10:40		Jan-08-13 11:00		Jan-08-13 11:30		Jan-08-13 16:00	
BTEX by EPA 8021B	*Extracted:*	Jan-09-13 13:00		Jan-09-13 13:00		Jan-09-13 13:00		Jan-09-13 13:00		Jan-09-13 13:00		Jan-09-13 13:00	
	Analyzed:	Jan-09-13 13:11		Jan-09-13 13:27		Jan-09-13 13:44		Jan-09-13 14:00		Jan-09-13 14:16		Jan-09-13 14:33	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00107	ND	0.00105	ND	0.00107	ND	0.00117	ND	0.00106	ND	0.00103
Toluene		ND	0.00214	ND	0.00210	ND	0.00215	ND	0.00235	ND	0.00212	ND	0.00206
Ethylbenzene		ND	0.00107	ND	0.00105	ND	0.00107	ND	0.00117	ND	0.00106	ND	0.00103
m_p-Xylenes		ND	0.00214	ND	0.00210	ND	0.00215	ND	0.00235	ND	0.00212	ND	0.00206
o-Xylene		ND	0.00107	ND	0.00105	ND	0.00107	ND	0.00117	ND	0.00106	ND	0.00103
Total Xylenes		ND	0.00107	ND	0.00105	ND	0.00107	ND	0.00117	ND	0.00106	ND	0.00103
Total BTEX		ND	0.00107	ND	0.00105	ND	0.00107	ND	0.00117	ND	0.00106	ND	0.00103
Inorganic Anions by EPA 300/300.1 SUB: TX104704215	*Extracted:*	Jan-10-13 17:14		Jan-10-13 18:05		Jan-10-13 18:22		Jan-10-13 18:39		Jan-10-13 18:57		Jan-10-13 19:14	
	Analyzed:	Jan-10-13 17:14		Jan-10-13 18:05		Jan-10-13 18:22		Jan-10-13 18:39		Jan-10-13 18:57		Jan-10-13 19:14	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		18.1	1.06	3.25	1.05	129	1.05	1.51	1.18	33.4	1.06	40.1	1.04
Percent Moisture	*Extracted:*												
	Analyzed:	Jan-09-13 13:50		Jan-09-13 13:50		Jan-09-13 13:50		Jan-09-13 13:50		Jan-09-13 13:50		Jan-09-13 13:50	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		6.47	1.00	5.07	1.00	6.67	1.00	15.2	1.00	5.88	1.00	3.54	1.00
TPH By SW8015 Mod	*Extracted:*	Jan-09-13 15:30		Jan-09-13 15:30		Jan-09-13 15:30		Jan-09-13 15:30		Jan-09-13 15:30		Jan-09-13 15:30	
	Analyzed:	Jan-09-13 21:39		Jan-09-13 23:03		Jan-09-13 23:32		Jan-10-13 00:00		Jan-10-13 00:28		Jan-10-13 00:56	
	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	16.0	ND	15.8	ND	16.1	ND	17.7	ND	16.0	ND	15.6
C12-C28 Diesel Range Hydrocarbons		ND	16.0	ND	15.8	ND	16.1	ND	17.7	ND	16.0	290	15.6
C28-C35 Oil Range Hydrocarbons		ND	16.0	ND	15.8	ND	16.1	ND	17.7	ND	16.0	ND	15.6
Total TPH		ND	16.0	ND	15.8	ND	16.1	ND	17.7	ND	16.0	290	15.6

Nicholas Straccione
Project Manager

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

\+ NELAC certification not offered for this compound.

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

Form 2 - Surrogate Recoveries

Project Name: SUGS Historical G-Loop Line 1RP-2581

Work Orders : 455312, 455312 **Project ID:**

Lab Batch #: 904355 **Sample:** 455312-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/13 13:11

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0255	0.0300	85	80-120	
4-Bromofluorobenzene	0.0286	0.0300	95	80-120	

Lab Batch #: 904355 **Sample:** 455312-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/13 13:27

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0253	0.0300	84	80-120	
4-Bromofluorobenzene	0.0329	0.0300	110	80-120	

Lab Batch #: 904355 **Sample:** 455312-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/13 13:44

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
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	0.0285	0.0300	95	80-120	

Lab Batch #: 904355 **Sample:** 455312-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/13 14:00

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0256	0.0300	85	80-120	
4-Bromofluorobenzene	0.0269	0.0300	90	80-120	

Lab Batch #: 904355 **Sample:** 455312-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/13 14:16

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0251	0.0300	84	80-120	
4-Bromofluorobenzene	0.0259	0.0300	86	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.

Form 2 - Surrogate Recoveries

Project Name: SUGS Historical G-Loop Line 1RP-2581

Work Orders : 455312, 455312 **Project ID:**

Lab Batch #: 904355 **Sample:** 455312-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/13 14:33

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0261	0.0300	87	80-120	
4-Bromofluorobenzene	0.0283	0.0300	94	80-120	

Lab Batch #: 904399 **Sample:** 455312-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/13 21:39

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.0	99.8	94	70-135	
o-Terphenyl	45.2	49.9	91	70-135	

Lab Batch #: 904399 **Sample:** 455312-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/13 23:03

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	99.9	101	70-135	
o-Terphenyl	48.6	50.0	97	70-135	

Lab Batch #: 904399 **Sample:** 455312-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/13 23:32

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.2	100	92	70-135	
o-Terphenyl	44.6	50.0	89	70-135	

Lab Batch #: 904399 **Sample:** 455312-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/10/13 00:00

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.7	100	96	70-135	
o-Terphenyl	46.2	50.0	92	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution.

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: SUGS Historical G-Loop Line 1RP-2581

Work Orders : 455312, 455312 **Project ID:**

Lab Batch #: 904399 **Sample:** 455312-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/10/13 00:28

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.3	100	95	70-135	
o-Terphenyl	45.8	50.1	91	70-135	

Lab Batch #: 904399 **Sample:** 455312-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/10/13 00:56

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.8	100	95	70-135	
o-Terphenyl	46.2	50.0	92	70-135	

Lab Batch #: 904355 **Sample:** 632171-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/09/13 09:24

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0305	0.0300	102	80-120	
4-Bromofluorobenzene	0.0338	0.0300	113	80-120	

Lab Batch #: 904399 **Sample:** 632196-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/09/13 21:11

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.1	99.9	93	70-135	
o-Terphenyl	45.4	50.0	91	70-135	

Lab Batch #: 904355 **Sample:** 632171-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/09/13 08:51

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0300	0.0300	100	80-120	
4-Bromofluorobenzene	0.0322	0.0300	107	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.

Form 2 - Surrogate Recoveries

Project Name: SUGS Historical G-Loop Line 1RP-2581

Work Orders : 455312, 455312 **Project ID:**

Lab Batch #: 904399 **Sample:** 632196-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/09/13 20:15

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.2	100	97	70-135	
o-Terphenyl	54.9	50.2	109	70-135	

Lab Batch #: 904355 **Sample:** 632171-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/09/13 09:08

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	80-120	
4-Bromofluorobenzene	0.0332	0.0300	111	80-120	

Lab Batch #: 904399 **Sample:** 632196-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/09/13 20:43

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.1	100	95	70-135	
o-Terphenyl	54.1	50.1	108	70-135	

Lab Batch #: 904355 **Sample:** 455231-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/13 15:54

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0319	0.0300	106	80-120	

Lab Batch #: 904399 **Sample:** 455312-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/13 22:07

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.1	99.9	99	70-135	
o-Terphenyl	54.4	50.0	109	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: SUGS Historical G-Loop Line 1RP-2581

Work Orders : 455312, 455312 **Project ID:**

Lab Batch #: 904355 **Sample:** 455231-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/13 15:38

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

Lab Batch #: 904399 **Sample:** 455312-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/13 22:35

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	99.9	102	70-135	
o-Terphenyl	55.5	50.0	111	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Blank Spike Recovery

Project Name: SUGS Historical G-Loop Line 1RP-2581

Work Order #: 455312 **Project ID:**

Lab Batch #: 904464 **Sample:** 632242-1-BKS **Matrix:** Solid

Date Analyzed: 01/10/2013 **Date Prepared:** 01/10/2013 **Analyst:** RKO

Reporting Units: mg/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Inorganic Anions by EPA 300/300.1 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	<1.00	100	95.5	96	80-120	

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: SUGS Historical G-Loop Line 1RP-2581

Work Order #: 455312, 455312 **Project ID:**

Analyst: KEB **Date Prepared:** 01/09/2013 **Date Analyzed:** 01/09/2013

Lab Batch ID: 904355 **Sample:** 632171-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00100	0.100	0.0790	79	0.0996	0.0753	76	5	70-130	35	
Toluene	<0.00200	0.100	0.0790	79	0.0996	0.0749	75	5	70-130	35	
Ethylbenzene	<0.00100	0.100	0.0807	81	0.0996	0.0757	76	6	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.154	77	0.199	0.143	72	7	70-135	35	
o-Xylene	<0.00100	0.100	0.0818	82	0.0996	0.0714	72	14	71-133	35	

Analyst: KEB **Date Prepared:** 01/09/2013 **Date Analyzed:** 01/09/2013

Lab Batch ID: 904399 **Sample:** 632196-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	1000	100	1000	985	99	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	966	97	1000	946	95	2	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 / MSD Recoveries

Project Name: SUGS Historical G-Loop Line 1RP-2581

Work Order # : 455312 **Project ID:**

Lab Batch ID: 904355 **QC- Sample ID:** 455231-001 S **Batch #:** 1 **Matrix:** Soil
Date Analyzed: 01/09/2013 **Date Prepared:** 01/09/2013 **Analyst:** KEB
Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00120	0.120	0.113	94	0.120	0.0951	79	17	70-130	35	
Toluene	<0.00239	0.120	0.104	87	0.120	0.0916	76	13	70-130	35	
Ethylbenzene	<0.00120	0.120	0.108	90	0.120	0.0945	79	13	71-129	35	
m_p-Xylenes	<0.00239	0.239	0.208	87	0.239	0.180	75	14	70-135	35	
o-Xylene	<0.00120	0.120	0.103	86	0.120	0.0909	76	12	71-133	35	

Lab Batch ID: 904464 **QC- Sample ID:** 455312-001 S **Batch #:** 1 **Matrix:** Soil
Date Analyzed: 01/10/2013 **Date Prepared:** 01/10/2013 **Analyst:** RKO
Reporting Units: mg/kg

Inorganic Anions by EPA 300/300.1 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	18.1	106	114	90	106	112	89	2	80-120	20	

Lab Batch ID: 904399 **QC- Sample ID:** 455312-001 S **Batch #:** 1 **Matrix:** Soil
Date Analyzed: 01/09/2013 **Date Prepared:** 01/09/2013 **Analyst:** KEB
Reporting Units: mg/kg

TPH By SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<16.0	1070	1060	99	1070	1100	103	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<16.0	1070	1030	96	1070	1080	101	5	70-135	35	

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

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

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

Sample Duplicate Recovery

Project Name: SUGS Historical G-Loop Line 1RP-2581

Work Order #: 455312

Lab Batch #: 904396 **Project ID:**

Date Analyzed: 01/09/2013 11:30 **Date Prepared:** 01/09/2013 **Analyst:** WRU

QC- Sample ID: 455269-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	11.7	10.3	13	20	

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

Xenco Laboratories

The 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: Camille Bryant

Project Name: SUGS Historical G-Loop Line 1RP-2581

Company Name: Nova Safety and Environmental

Project #:

Company Address: 2057 Commerce

Project Loc: Lea County, New Mexico

City/State/Zip: Midland, TX 79703

PO #:

Telephone No: 432.520.7720 Fax No: 432.520.7701

Report Format: [x] Standard [ ] TRRP [ ] NPI

Sampler Signature: Camille Bryant

e-mail: cbryant@novatraining.cc
rose.slade@sug.com

(lab use only)
ORDER #: 455312

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: TPH: 418.1 / 8015M	TPH: TX 1005 / 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.	C, E, 30C	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	RP @ 4'			1/7/2013	15:30		1	X								Soil	X								X			X	X	
02	N S/W @ 3'			1/8/2013	10:30		1	X								Soil	X								X			X	X	
03	E S/W @ 3'			1/8/2013	10:40		1	X								Soil	X								X			X	X	
04	S S/W @ 3'			1/8/2013	11:00		1	X								Soil	X								X			X	X	
05	W S/W @ 3'			1/8/2013	11:30		1	X								Soil	X								X			X	X	
06	SP-1			1/8/2013	16:00		1	X								Soil	X								X			X	X	

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Camille Bryant	1/9/13	10:25	Nikki Green	1/9/13	10:25
Nikki Green	1/9/13	1107	Shaunee Smith	1/9/13	11:07
Relinquished by:	Date	Time	Received by ELOT:	Date	Time

Laboratory Comments:

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

Temperature Upon Receipt: 10.0c

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 01/09/2013 11:07:00 AM

Work Order #: 455312

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

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

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

Analyst:	PH Device/Lot#:

Checklist completed by: _____ Date: _____

Checklist reviewed by: _____ Date: _____

APPENDIX B:
Photographs

NOVA
safety and environmental

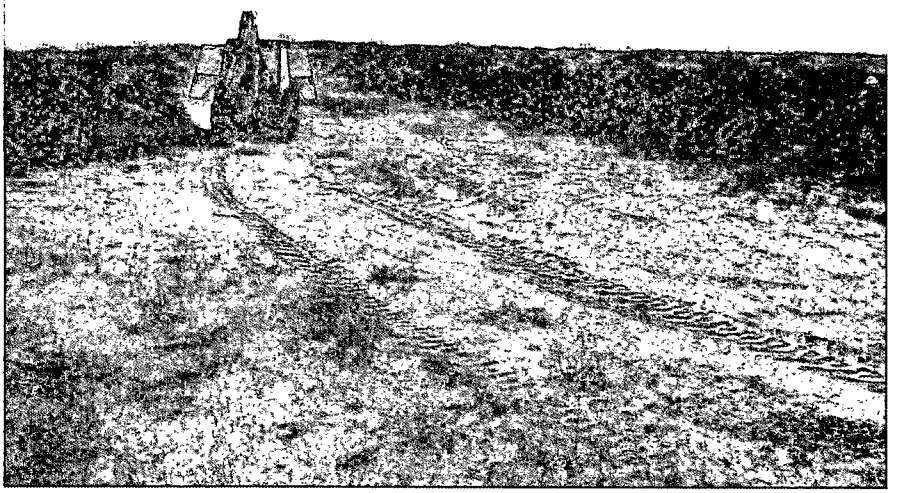
Photographic Documentation

Client: Southern Union Gas Services
Project Name: G-Loop 8 Inch Lateral

Prepared by: NOVA
Location: Lea County, New Mexico

Photograph No. 1

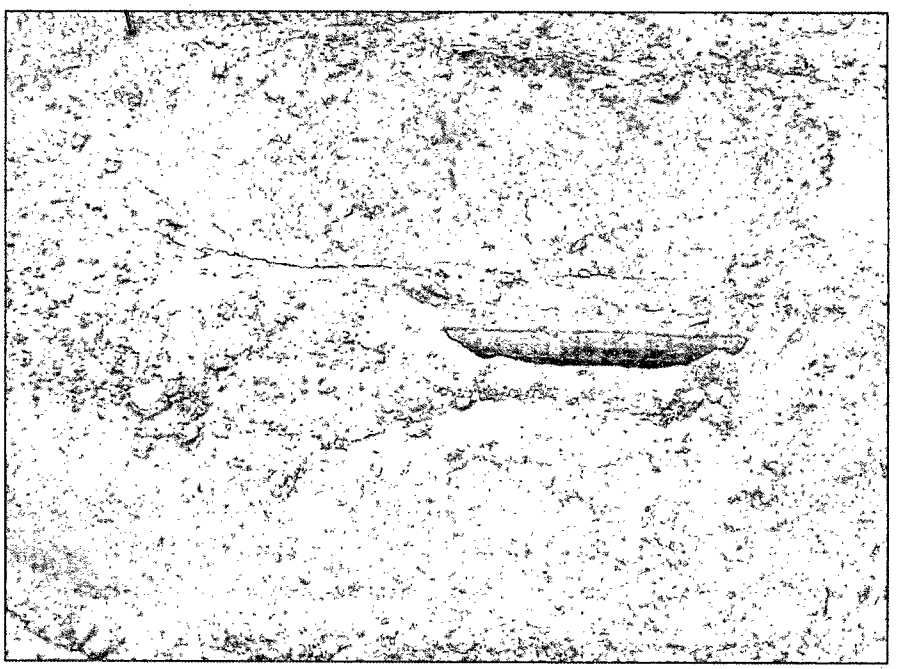
Direction:
Facing South



Description:
View of the initial release area.

Photograph No. 2

Direction:
Facing East



Description:
View of excavation with SUGS pipeline.

NOVA
safety and environmental

Photographic Documentation

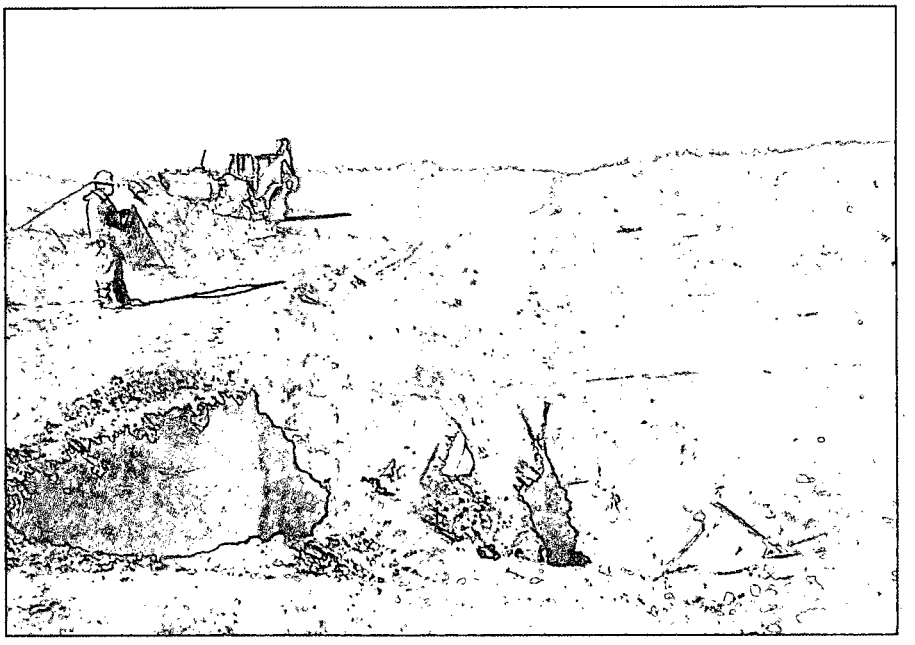
Client: Southern Union Gas Services
Project Name: G-Loop 8 Inch Lateral

Prepared by: NOVA
Location: Lea County, New Mexico

Photograph No. 3

Direction:
Facing North

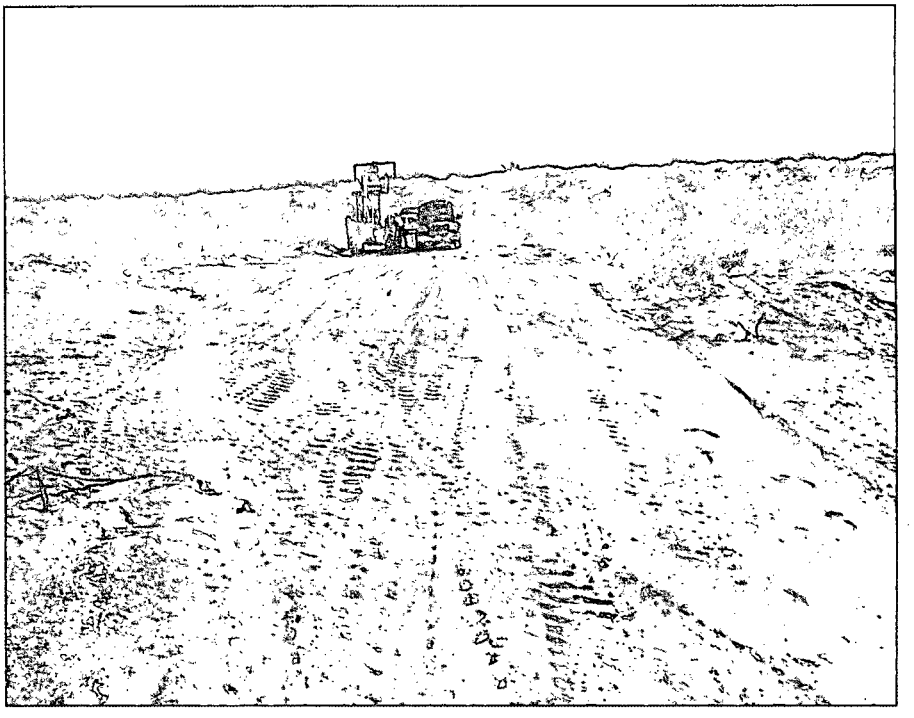
Description:
View of the backfilling activities.



Photograph No. 4

Direction:
Facing South

Description:
View of the restored site.



APPENDIX C:
Release Notification and Corrective Action
(Form C-141)

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

RECEIVED
JUL 14 2010
HOBBSOCD

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 Repo

Name of Company	Southern Union Gas Services	Contact	Rose Slade
Address	P.O. Box 1226 Jal, New Mexico 88252	Telephone No.	432-940-5147
Facility Name	G-Loop Line 8-Inch Lateral	Facility Type	Natural Gas Pipeline

Surface Owner El Paso Natural Gas	Mineral Owner	~~Lease~~ API No 30-025-38822

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	7	26S	37E					Lea

Latitude 32.06025 Longitude 103.119775

NATURE OF RELEASE

Type of Release Crude Oil and Produced Water	Volume of Release 6 BBLS	Volume Recovered 0 BBLS
Source of Release 8-Inch Steel Pipeline	Date and Hour of Occurrence Unknown	Date and Hour of Discovery July 1, 2010, 1140 hrs
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.*
Internal Corrosion caused a failure of an 8-inch steel pipeline, resulting in a surface stain of approximately 1,000 square feet. The pipeline was fitted with a temporary pipeline clamp to mitigate the release. No H2S was detected from the release.

Describe Area Affected and Cleanup Action Taken.*
An area measuring approximately 1,500 square feet was affected by the release. Clean sorb was applied to the surface stain to further stabilize the release and absorbent booms were installed in low areas along the fenceline to minimize the potential for travel outside the station during a rain event. The release will be remediated according to NMOCD regulatory guidelines.

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: ENVIRONMENTAL ENGINEER
Title: EHS Compliance Specialist	Approval Date: 7.13.10 Expiration Date: 9.13.10
E-mail Address: rose.slade@sug.com	Conditions of Approval: Attached ☐
Date: 7/9/2010 Phone: 432-940-5147	SUBMIT FINAL C-141 w/ DOCS BY IRP# 10.7.2581

* Attach Additional Sheets If Necessary

INCD nCWJ 1019432769
ADM pCWJ 10 1943 3095