RECEIVED
By OCD; Dr. Oberding at 2:04 pm, Apr 14, 2015

APPROVED
By OCD; Dr. Oberding at 2:12 pm, Apr 14, 2015

REMEDIATION SUMMARY & SOIL CLOSURE REQUEST

Property:

1RP-3608

REGENCY FIELD SERVICES LLC.
2B2 Loop Drip Tank
Historical Release Site
Lea County, New Mexico
Unit Letter "C", Section 34, Township 24 South, Range 37 East
Latitude 32.178446, Longitude -103.152843
BGT-004

April 2015
Apex Project No. 7030714G041

Prepared for:

Regency Field Services LLC
301 Commerce Street, Suite 700
Fort Worth, TX 76109
Attn: **Ms. Crystal Callaway, BSN, RN, CHMM**

Prepared by:

Thomas Franklin
Project Manager

Liz Scaggs, P.G.
Senior Technical Review

Table of Contents

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2B2 Loop Drip Tank (BGT-004)
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Lea County, New Mexico
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Latitude 32.178446, Longitude -103.152843

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1.0 INTRODUCTION

1.1 Site Description & Background

Apex TITAN, Inc. (Apex) has prepared this Remediation Summary and Soil Closure Request for the Regency Field Services, LLC (Regency) 2B2 Loop Drip Tank (referred to hereinafter as the "Site" or "subject Site"). This Soil Closure Request is based upon the interpretation of the data collected by Basin Environmental (Basin) and the remedial actions conducted to date by Apex.

The 2B2 Drip Tank is located in Unit Letter C, Section 34, Township 24 South, Range 37 East, Lea County, New Mexico (GPS 32.178446, -103.152843). Regency Field Services, LLC has acquired this pipeline and associated equipment.

Remedial actions were conducted by Apex in accordance with New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (NMOCD) rules (*NMAC 19.15.29 Release Notification*) and the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

1.2 Project Objective

The objective of the Remediation Summary and Soil Closure Request is to present documentation of the activities that were performed to date and to request closure of the site.

1.3 Standard of Care

Apex's services are performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Apex makes no warranties, express or implied, as to the services performed hereunder. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services will be performed in accordance with the scope of work agreed with the client.

1.4 Reliance

This report has been prepared for the exclusive use of Regency, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Regency and Apex. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.

2.0 SITE RANKING & PROPOSED REMEDIAL ACTION GOALS

The Site is subject to regulatory oversight by the NMOCD. To address activities related to releases, the NMOCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the NMOCD rules, specifically NMAC 19.15.29 *Release Notification*. These documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

In accordance with the NMOCD's *Guidelines for Remediation of Leaks, Spills and Releases*, Apex utilized the general site characteristics to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the table below:

Ranking Criteria			**Ranking Score**
Depth to Groundwater	<50 feet	20	**10**
	50 to 99 feet	10	
	>100 feet	0	
Wellhead Protection Area, <1,000 feet from a water source, or; <200 feet from private domestic water source.	Yes	20	**0**
	No	0	
Distance to Surface Water Body	<200 feet	20	**0**
	200 to 1,000 feet	10	
	>1,000 feet	0	
Total Ranking Score			**10**

Based on Apex's evaluation of the scoring criteria, the Site would have a Total Ranking Score of 10. This ranking is based on the following:

- The depth to the initial groundwater-bearing zone is 50 to 99 feet at the Site.
- The impacted area is greater than 200 feet from a private domestic water source.
- Distance to the nearest surface water body is greater than 1,000 ft.

Based on a Total Ranking Score of 10, cleanup goals for soils remaining in place include: 10 milligrams per kilogram (mg/Kg) for benzene, 50 mg/Kg for total benzene, toluene, ethylbenzene and xylene (BTEX), 1,000 mg/Kg for total petroleum hydrocarbons (TPH) and 500 mg/Kg for chloride.

3.0 INITIAL RESPONSE & ASSESSMENT ACTIVITIES

3.1 Initial Response

In June, 2008 Basin personnel were present to observe the removal of a 167 barrel (bbl) Below Grade Tank (BGT). During the removal of the BGT, impacted soil was observed in the vicinity of the BGT. Basin excavated the impacted soils to a final dimension of approximately twenty four (24) feet in length, twenty (20) feet in width and twenty two (22) feet in depth near the center of the former BGT as shown on Figure 3, Appendix A. Select samples were obtained from the side walls and bottom of the excavation. The soil samples were submitted for laboratory analysis which detected elevated chloride concentrations in the area where the former below ground storage tank was located. Chloride concentrations at the Center Floor were 1,760 mg/Kg and 4,550 mg/Kg and concentrations at the South Wall West Bottom were 2,980 mg/Kg and 3,120 mg/Kg. The Soil Analytical Summary Table as provided by Basin is located in Appendix B. It should be noted that the depths of the soil samples collected were not recorded on the Chain-of-Custody.

3.2 Confirmation Activities

On February 25, 2015, Mr. Thomas Franklin was present to observe on-Site activities and to collect soil samples with a track hoe as shown in the photos in Appendix C. Five soil samples (CS-1 through CS-4 and Bottom Hole-1) as shown on Figure 3, Appendix A were installed. Samples were collected and field screened for chlorides.

3.3 Confirmation Soil Sampling Program

Five (5) composite soil samples were collected from the Site by Apex personnel and analyzed for BTEX, TPH and chlorides. All sample results for BTEX, TPH and chlorides were below the cleanup goals, as previously discussed in Section 2.0.

4.0 LABORATORY ANALYTICAL METHODS

The samples were analyzed for TPH GRO/DRO utilizing EPA method SW-846 8015, BTEX using EPA method SW-846 8021B and chlorides utilizing EPA method SW-846 300.1. Copies of the laboratory analysis are provided in Appendix D.

Soil samples were collected and placed in laboratory prepared glassware, placed on ice in a cooler. The sample coolers and completed chain-of-custody forms were relinquished to Trace Analysis, Inc. in Midland, Texas for normal turn-around time.

Figure 3 is a Site plan that indicates the approximate location of the confirmation soil samples in relation to pertinent land features and general Site boundaries, which is included in Appendix A.

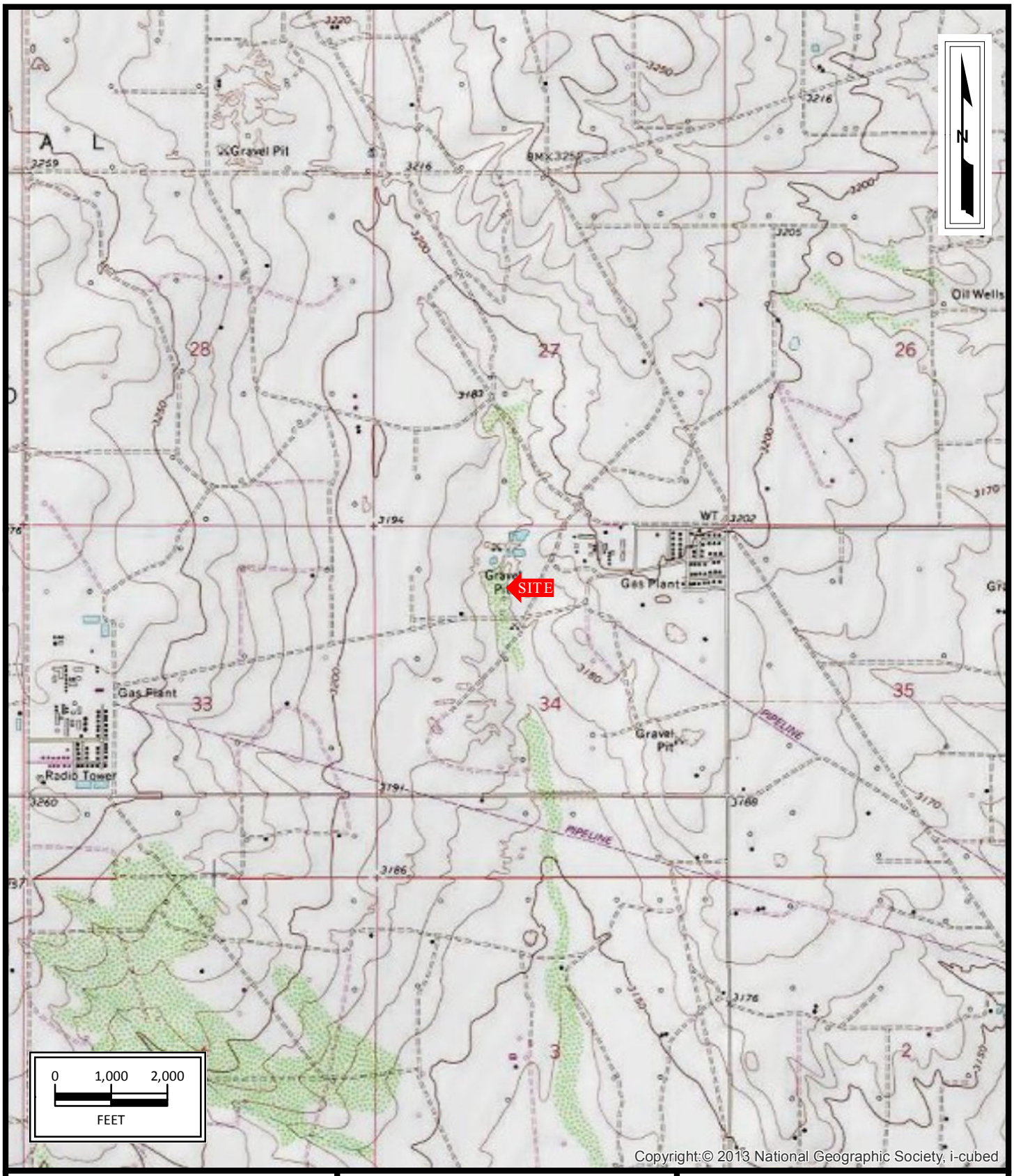
5.0 CLOSURE

Based upon the data provided by Basin and the work completed by Apex, the constituents of concern were horizontally and vertically delineated below the cleanup levels. The previously excavated area was backfilled with clean material to five (5) feet bgs, lined with a twenty (20) mil liner and brought to grade with NMOCD verbal approval that was obtained on March 19, 2015.

Based upon the response actions and laboratory analytical results, no additional investigation and/or remediation appears warranted at this time. Regency respectfully requests closure of this site. Copies of the Initial and Final C-144 are provided in Appendix E.

APPENDIX A

Figures



Regency - 2B2 Loop Drip Tank
Lea County, New Mexico
32.178446N, 103.152843W

Project No. 7030714G041.001

Apex TITAN, Inc.
505 N. Big Spring Street, Suite 301A
Midland, Texas 79701
Phone: (432) 695-6016
www.apexcos.com
A Subsidiary of Apex Companies, LLC

FIGURE 1
Topographic Map

Regency - 2B2 Loop Drip Tank
Lea County, New Mexico
32.178446N, 103.152843W

Project No. 7030714G041.001

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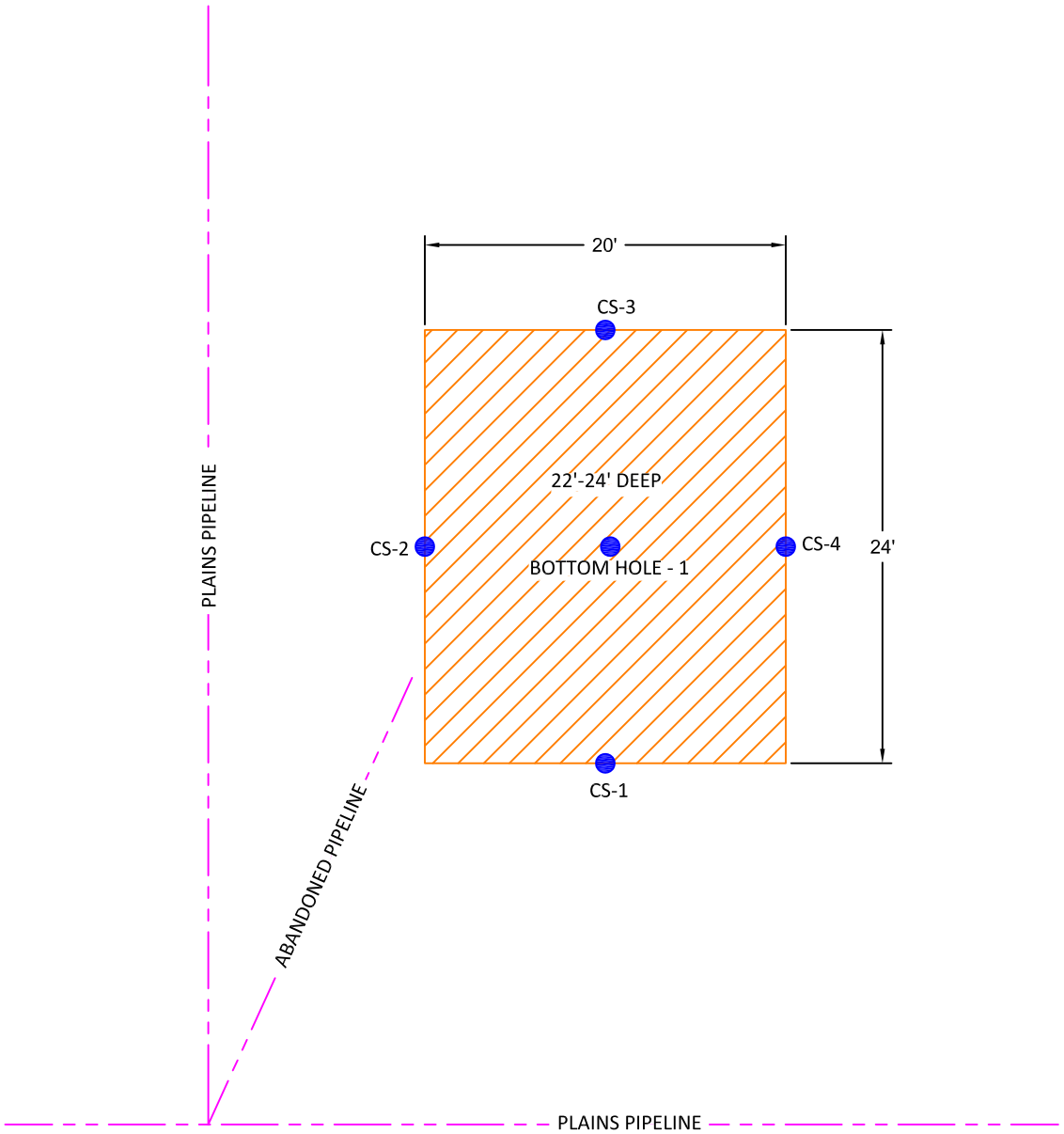
FIGURE 2
Site Vicinity Map



LEGEND:

- CONFIRMATION SAMPLE LOCATION
- EXTENT OF EXCAVATION

0 5 10

1" = 10'

Regency - 2B2 Loop Drip Tank
Lea County, New Mexico
32.178446N, 103.152843W

Project No. 7030714G041.001

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FIGURE 3
Site Map

Z:\Houston South\Drafting\Midland 07\2014\7030714G041\Figure 3.dwg 03/13/15

APPENDIX B

Soil Analytical Summary Table

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES
2B2 LOOP DRIP TANK (20" CROSSOVER)
HISTORICAL RELEASE SITE
LEA COUNTY, NEW MEXICO
SUG JOB ID# BGT-004

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TOTAL TPH C_6-C_{28} (mg/Kg)	EPA: 300
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
North Wall	N/A	6/5/2008	N/A	-	-	-	-	-	<15.5	<15.5	<15.5	<15.5	-
East Wall	N/A	6/5/2008	N/A	-	-	-	-	-	<15.3	<15.3	<15.3	<15.3	**-**
West Wall	N/A	6/5/2008	N/A	-	-	-	-	-	<16.3	<16.3	<16.3	<16.3	**-**
West Wall Stain	N/A	6/5/2008	N/A	-	-	-	-	-	<15.2	<15.2	<15.2	<15.2	**-**
South Wall	N/A	6/5/2008	N/A	-	-	-	-	-	<15.2	<15.2	<15.2	<15.2	**-**
South Wall West Bottom	N/A	6/5/2008	N/A	<0.0012	<0.0023	<0.0012	<0.0023	<0.0023	<17.3	<17.3	<17.3	<17.3	**2,980**
South Wall Stain	N/A	6/5/2008	N/A	-	-	-	-	-	<16.0	<16.0	<16.0	<16.0	**-**
Center Floor	N/A	6/5/2008	N/A	<0.0010	<0.0021	<0.0010	<0.0021	<0.0021	<15.6	<15.6	<15.6	<15.6	**1,760**
Floor	N/A	6/5/2008	N/A	-	-	-	-	-	<15.7	<15.7	<15.7	<15.7	**-**
South Wall West Bottom	N/A	6/17/2008	N/A	-	-	-	-	-	-	-	-	-	**3,120**
Center Floor	N/A	6/17/2008	N/A	-	-	-	-	-	-	-	-	-	**4,550**
NMOCD Standard				**10**				**50**				**1,000**	**500**

- = Not analyzed.

TABLE 1
REGENCY - 2B2 Loop Drip Tank
ANALYTICAL RESULTS

Sample ID	Date	Soil Status	Sample Depth (feet)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	Total BTEX (mg/Kg)	TPH (DRO) (mg/Kg)	TPH (GRO) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
NMOCD - *Guidelines for Remediation of Leaks, Spills and Releases*				***10***	**NE**	**NE**	**NE**	***50***	**NE**		***100***	***500***
INITIAL CONFIRMATION SAMPLES												
Bottom Hole-1	02/25/2015	In-Situ	22'-24'	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00	<50.0	<20
Confirmation Sample-1	02/25/2015	In-Situ	3'-9'	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00	<50.0	<20
Confirmation Sample-2	02/25/2015	In-Situ	3'-9'	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00	<50.0	<20
Confirmation Sample-3	02/25/2015	In-Situ	3'-9'	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00	<50.0	<20
Confirmation Sample-4	02/25/2015	In-Situ	3'-9'	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<8.00	<50.0	<20

mg/Kg- milligrams per Kilograms

NE - Not Established

Concentrations in Bold exceed the NMOCD Guidelines

APPENDIX C

Photos

View West – Area of the side wall samples collected by Apex

View West – Depth of the previously excavated area

View Northwest – Backfill

View North - Backfill

View North – Liner Installed

View West – Liner Installed

View North – Backfill

View North – Backfill

View North – Backfill to grade

View Northeast – Backfill to grade

APPENDIX D

Laboratory Analysis and Chain-of-Custody

Analytical Report 305313

for

Southern Union Gas Services-Jal

Project Manager: Tony Savoie

2B2 Loop Drip Tank

BGT-004

10-JUN-08

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

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

10-JUN-08

Project Manager: **Tony Savoie**
Southern Union Gas Services-Jal
610 Commerce
Jal, NM 88252

Reference: XENCO Report No: **305313**
2B2 Loop Drip Tank
Project Address:

Tony Savoie:

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 305313. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 305313 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 305313

Southern Union Gas Services-Jal, Jal, NM

2B2 Loop Drip Tank

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
North Wall	S	Jun-05-08 08:15		305313-001
East Wall	S	Jun-05-08 08:30		305313-002
West Wall	S	Jun-05-08 09:15		305313-003
West Wall Stain	S	Jun-05-08 09:20		305313-004
South Wall	S	Jun-05-08 09:30		305313-005
South Wall West Bottom	S	Jun-05-08 09:35		305313-006
South Wall Stain	S	Jun-05-08 09:40		305313-007
Center Floor	S	Jun-05-08 09:50		305313-008
Floor	S	Jun-05-08 10:20		305313-009

Certificate of Analysis Summary 305313

Southern Union Gas Services-Jal, Jal, NM

Project Name: 2B2 Loop Drip Tank

Project Id: BGT-004
Contact: Tony Savoie
Project Location:

Date Received in Lab: Thu Jun-05-08 05:55 pm
Report Date: 10-JUN-08
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	305313-001		305313-002		305313-003		305313-004		305313-005		305313-006	
	Field Id:	North Wall		East Wall		West Wall		West Wall Stain		South Wall		South Wall West Bottom	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-05-08 08:15		Jun-05-08 08:30		Jun-05-08 09:15		Jun-05-08 09:20		Jun-05-08 09:30		Jun-05-08 09:35	
BTEX by EPA 8021B	***Extracted:***											Jun-06-08 12:10	
	Analyzed:											Jun-06-08 16:35	
	Units/RL:											mg/kg	RL
Benzene												ND	0.0012
Toluene												ND	0.0023
Ethylbenzene												ND	0.0012
m,p-Xylenes												ND	0.0023
o-Xylene												ND	0.0012
Total Xylenes												ND	
Total BTEX												ND	
Inorganic Anions by EPA 300	***Extracted:***												
	Analyzed:											Jun-09-08 17:53	
	Units/RL:											mg/kg	RL
Chloride												2980	57.7
Percent Moisture	***Extracted:***												
	Analyzed:	Jun-06-08 17:00		Jun-06-08 17:00		Jun-06-08 17:00		Jun-06-08 17:00		Jun-06-08 17:00		Jun-06-08 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		3.38		2.05		7.78		1.5		1.28		13.4	
TPH by SW8015 Mod	***Extracted:***	Jun-09-08 15:30		Jun-09-08 15:30		Jun-09-08 15:30		Jun-09-08 15:30		Jun-09-08 15:30		Jun-09-08 15:30	
	Analyzed:	Jun-10-08 11:29		Jun-09-08 16:29		Jun-09-08 16:56		Jun-09-08 17:24		Jun-09-08 17:52		Jun-09-08 18:19	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	15.5	ND	15.3	ND	16.3	ND	15.2	ND	15.2	ND	17.3
C12-C28 Diesel Range Hydrocarbons		ND	15.5	ND	15.3	ND	16.3	ND	15.2	ND	15.2	ND	17.3
C28-C35 Oil Range Hydrocarbons		ND	15.5	ND	15.3	ND	16.3	ND	15.2	ND	15.2	ND	17.3
Total TPH		ND		ND		ND		ND		ND		ND	

Brent Barron
Odessa Laboratory Director

Certificate of Analysis Summary 305313

Southern Union Gas Services-Jal, Jal, NM

Project Name: 2B2 Loop Drip Tank

Project Id: BGT-004
Contact: Tony Savoie
Project Location:

Date Received in Lab: Thu Jun-05-08 05:55 pm
Report Date: 10-JUN-08
Project Manager: Brent Barron, II

Analysis Requested								
	Lab Id:	305313-007		305313-008		305313-009		
	Field Id:	South Wall Stain		Center Floor		Floor		
	Depth:							
	Matrix:	SOIL		SOIL		SOIL		
	Sampled:	Jun-05-08 09:40		Jun-05-08 09:50		Jun-05-08 10:20		
BTEX by EPA 8021B	***Extracted:***			Jun-06-08 12:10				
	Analyzed:			Jun-06-08 16:59				
	Units/RL:			mg/kg	RL			
Benzene				ND	0.0010			
Toluene				ND	0.0021			
Ethylbenzene				ND	0.0010			
m,p-Xylenes				ND	0.0021			
o-Xylene				ND	0.0010			
Total Xylenes				ND				
Total BTEX				ND				
Inorganic Anions by EPA 300	***Extracted:***							
	Analyzed:			Jun-09-08 17:53				
	Units/RL:			mg/kg	RL			
Chloride				1760	26.1			
Percent Moisture	***Extracted:***							
	Analyzed:	Jun-06-08 17:00		Jun-06-08 17:00		Jun-06-08 17:00		
	Units/RL:	%	RL	%	RL	%	RL	
Percent Moisture		6.38		4.1		4.59		
TPH by SW8015 Mod	***Extracted:***	Jun-09-08 15:30		Jun-09-08 15:30		Jun-09-08 15:30		
	Analyzed:	Jun-09-08 18:46		Jun-09-08 19:13		Jun-09-08 19:40		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	
C6-C12 Gasoline Range Hydrocarbons		ND	16.0	ND	15.6	ND	15.7	
C12-C28 Diesel Range Hydrocarbons		ND	16.0	ND	15.6	ND	15.7	
C28-C35 Oil Range Hydrocarbons		ND	16.0	ND	15.6	ND	15.7	
Total TPH		ND		ND		ND		

Brent Barron
Odessa Laboratory Director

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).

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.

* Outside XENCO'S scope of NELAC Accreditation

Form 2 - Surrogate Recoveries

Project Name: 2B2 Loop Drip Tank

Work Order #: 305313 **Project ID:** BGT-004

Lab Batch #: 724839 **Sample:** 305313-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0352	0.0300	117	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

Lab Batch #: 724839 **Sample:** 305313-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0346	0.0300	115	80-120	
4-Bromofluorobenzene	0.0307	0.0300	102	80-120	

Lab Batch #: 724839 **Sample:** 510296-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

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

Lab Batch #: 724839 **Sample:** 510296-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0353	0.0300	118	80-120	
4-Bromofluorobenzene	0.0289	0.0300	96	80-120	

Lab Batch #: 724839 **Sample:** 510296-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	0.0326	0.0300	109	80-120	

** 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: 2B2 Loop Drip Tank

Work Order #: 305313 **Project ID:** BGT-004

Lab Batch #: 725011 **Sample:** 305313-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	100	119	70-135	
o-Terphenyl	63.4	50.0	127	70-135	

Lab Batch #: 725011 **Sample:** 305313-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	60.0	50.0	120	70-135	

Lab Batch #: 725011 **Sample:** 305313-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	121	100	121	70-135	
o-Terphenyl	64.9	50.0	130	70-135	

Lab Batch #: 725011 **Sample:** 305313-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	100	106	70-135	
o-Terphenyl	56.4	50.0	113	70-135	

Lab Batch #: 725011 **Sample:** 305313-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	100	114	70-135	
o-Terphenyl	59.2	50.0	118	70-135	

** 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: 2B2 Loop Drip Tank

Work Order #: 305313 **Project ID:** BGT-004

Lab Batch #: 725011 **Sample:** 305313-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	62.9	50.0	126	70-135	

Lab Batch #: 725011 **Sample:** 305313-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	59.6	50.0	119	70-135	

Lab Batch #: 725011 **Sample:** 305313-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	62.2	50.0	124	70-135	

Lab Batch #: 725011 **Sample:** 305313-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	100	111	70-135	
o-Terphenyl	60.5	50.0	121	70-135	

Lab Batch #: 725011 **Sample:** 510380-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	120	100	120	70-135	
o-Terphenyl	64.2	50.0	128	70-135	

** 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: 2B2 Loop Drip Tank

Work Order #: 305313 **Project ID:** BGT-004

Lab Batch #: 725011 **Sample:** 510380-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	62.6	50.0	125	70-135	

Lab Batch #: 725011 **Sample:** 510380-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	100	119	70-135	
o-Terphenyl	63.6	50.0	127	70-135	

** 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: 2B2 Loop Drip Tank

Work Order #: 305313 **Project ID:** BGT-004

Lab Batch #: 724913 **Sample:** 724913-1-BKS **Matrix:** Solid

Date Analyzed: 06/09/2008 **Date Prepared:** 06/09/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	11.4	114	75-125	

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

BS / BSD Recoveries

Project Name: 2B2 Loop Drip Tank

Work Order #: 305313 **Project ID:** BGT-004

Analyst: SHE **Date Prepared:** 06/06/2008 **Date Analyzed:** 06/06/2008

Lab Batch ID: 724839 **Sample:** 510296-1-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	ND	0.1000	0.0805	81	0.1	0.0866	87	7	70-130	35	
Toluene	ND	0.1000	0.0859	86	0.1	0.0920	92	7	70-130	35	
Ethylbenzene	ND	0.1000	0.1025	103	0.1	0.1091	109	6	71-129	35	
m,p-Xylenes	ND	0.2000	0.2075	104	0.2	0.2213	111	6	70-135	35	
o-Xylene	ND	0.1000	0.1067	107	0.1	0.1135	114	6	71-133	35	

Analyst: ASA **Date Prepared:** 06/09/2008 **Date Analyzed:** 06/09/2008

Lab Batch ID: 725011 **Sample:** 510380-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1000	930	93	1000	984	98	6	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	922	92	1000	967	97	5	70-135	35	

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

Form 3 - MS Recoveries

Project Name: 2B2 Loop Drip Tank

Work Order #: 305313
Lab Batch #: 724913
Date Analyzed: 06/09/2008
QC- Sample ID: 305296-001 S
Reporting Units: mg/kg

Project ID: BGT-004
Date Prepared: 06/09/2008
Analyst: LATCOR
Batch #: 1
Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	17.6	100	144	126	75-125	X

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

Sample Duplicate Recovery

Project Name: 2B2 Loop Drip Tank

Work Order #: 305313

Lab Batch #: 724913 **Project ID:** BGT-004

Date Analyzed: 06/09/2008 **Date Prepared:** 06/09/2008 **Analyst:** LATCOR

QC- Sample ID: 305296-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	17.6	17.6	0	20	

Lab Batch #: 724739

Date Analyzed: 06/06/2008 **Date Prepared:** 06/06/2008 **Analyst:** JLG

QC- Sample ID: 305299-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	0.523	0.546	4	20	

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

Environmental Lab of Texas

a XENCO Labratories Company

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 PAGE 1 OF 1

Company Name: Southern Union Gas

Company Address: SUGS, JAL

City/State/Zip: JAL, New Mexico 88252

Telephone No: 575-631-9376 Fax No:

Sampler Signature: e-mail: tony.savoie@sug.com

Project Name: 2B2 Lodi Dr. Tank

Project #: BGT-004

Project Loc:

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 305313

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/Sol; NP – Non-Potable Specify Oth	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 1HF X 8260	RCI	N.O.R.M.	CHLORIDES 300			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT (3 DAY)
01	North Wall			06/05/08	0915		1	X								SOIL	X									X								X
02	East Wall			06/05/08	0930		1	X									X									X								X
03	West Wall			06/05/08	0945		1	X									X									X								X
04	West Wall Stain			06/05/08	0920		1	X									X									X								X
05	South Wall			06/05/08	0930		1	X									X									X								X
06	South Wall West Bottom			06/05/08	0935		1	X									X									X				X				X
07	South Wall Stain			06/05/08	0940		1	X									X									X								X
08	Center Floor			06/05/08	0950		1	X									X									X				X				X
09	Floor			06/05/08	1020		1	X									X									X								X

Special Instructions:

Relinquished by:	Date	Time	Received by	Date	Time
Tony Savoie	6/6/08	15:30		6/5/08	18:50
	6/5/08	17:55	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Jeanne Fitts	06 05 08	1755

Laboratory Comments:

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

Temperature Upon Receipt: 2.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: SUGS

Date/ Time: 06-05-08 @ 1755

Lab ID # : 305313

Initials: JMF

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

Analytical Report 306043

for

Southern Union Gas Services-Jal

Project Manager: Tony Savoie

2B2 Loop Drip Tank

BGT-004

20-JUN-08

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

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

20-JUN-08

Project Manager: **Tony Savoie**
Southern Union Gas Services-Jal
610 Commerce
Jal, NM 88252

Reference: XENCO Report No: **306043**
2B2 Loop Drip Tank
Project Address:

Tony Savoie:

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 306043. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 306043 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 306043

Southern Union Gas Services-Jal, Jal, NM

2B2 Loop Drip Tank

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
South Wall West Bottom	S	Jun-17-08 09:40		306043-001
Center Floor	S	Jun-17-08 09:50		306043-002

Certificate of Analysis Summary 306043

Southern Union Gas Services-Jal, Jal, NM

Project Name: 2B2 Loop Drip Tank

Project Id: BGT-004
Contact: Tony Savoie
Project Location:

Date Received in Lab: Wed Jun-18-08 08:45 am
Report Date: 20-JUN-08
Project Manager: Brent Barron, II

Analysis Requested							
	Lab Id:	306043-001	306043-002				
	Field Id:	South Wall West Bottom	Center Floor				
	Depth:						
	Matrix:	SOIL	SOIL				
	Sampled:	Jun-17-08 09:40	Jun-17-08 09:50				
Inorganic Anions by EPA 300	***Extracted:***						
	Analyzed:	Jun-18-08 13:11	Jun-18-08 13:11				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		3120 50.0	4550 100				

Brent Barron
Odessa Laboratory Director

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).

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.

* Outside XENCO'S scope of NELAC Accreditation

Blank Spike Recovery

Project Name: 2B2 Loop Drip Tank

Work Order #: 306043 **Project ID:** BGT-004

Lab Batch #: 725814 **Sample:** 725814-1-BKS **Matrix:** Solid

Date Analyzed: 06/18/2008 **Date Prepared:** 06/18/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	10.3	103	75-125	

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

Form 3 - MS Recoveries

Project Name: 2B2 Loop Drip Tank

Work Order #: 306043
Lab Batch #: 725814
Date Analyzed: 06/18/2008
QC- Sample ID: 306001-001 S
Reporting Units: mg/kg

Project ID: BGT-004
Date Prepared: 06/18/2008
Analyst: LATCOR
Batch #: 1
Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	16.5	100	137	121	75-125	

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

Sample Duplicate Recovery

Project Name: 2B2 Loop Drip Tank

Work Order #: 306043

Lab Batch #: 725814
Project ID: BGT-004
Date Analyzed: 06/18/2008
Date Prepared: 06/18/2008
Analyst: LATCOR
QC- Sample ID: 306001-001 D
Batch #: 1
Matrix: Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	16.5	13.7	19	20	

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

Environmental Lab of Texas

a XENCO Laboratories Company

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: Terry Swicie   PAGE   OF

Company Name: Southern Union Gas

Company Address: SUGS, Jal

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

Telephone No: 575-631-9376   Fax No:

Sampler Signature: Terry Nak   e-mail: tony.swicie@sug.com

Project Name: 2B2 Lea Drip Tank

Project #: BGT-004

Project Loc:

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 306043

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers (4oz glass)	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)	TPH 418.1 8015M 8015B	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.	CHLORIDES 300			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT (3 DAY)
																									X (TOTAL)							
01	South Wall West Bottom			06/17/08	0940		1	X								Soil												X				X
02	Center Floor			06/17/08	0950		1	X								Soil												X				X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Terry Nak	6/17/08	1550	[illegible]	6/17/08	1550
[illegible]	6/18/08	~~945~~ 8:45	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Jeanne Fitch	06.18.08	0845

Laboratory Comments:

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

Temperature Upon Receipt: 3.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: SUGS

Date/ Time: 06 18 08 @0945

Lab ID # : 306043

Initials: JMF

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	3.0 °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

Analytical Report 493931

for

APEX/Titan

Project Manager: Thomas Franklin

282 Loop Drip Tank

7030T14G041

09-OCT-14

Collected By: Client

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

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)

09-OCT-14

Project Manager: **Thomas Franklin**
APEX/Titan
505 N. Big Spring Ste. 301 A
Midland, TX 79701

Reference: XENCO Report No(s): **493931**
282 Loop Drip Tank
Project Address:

Thomas Franklin:

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) 493931. 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. 493931 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,

Julian Martinez
Project Manager

Sample Cross Reference 493931

APEX/Titan, Midland, TX

282 Loop Drip Tank

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Stockpile 1 West	S	09-24-14 13:30		493931-001
Stockpile 1 East	S	09-24-14 13:30		493931-002
Stockpile 2 North	S	09-24-14 13:35		493931-003
Stockpile 2 South	S	09-24-14 13:35		493931-004

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 493931

APEX/Titan, Midland, TX

Project Name: 282 Loop Drip Tank

Project Id: 7030T14G041
Contact: Thomas Franklin
Project Location:

Date Received in Lab: Thu Sep-25-14 08:15 am
Report Date: 09-OCT-14
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	493931-001		493931-002		493931-003		493931-004					
	Field Id:	Stockpile 1 West		Stockpile 1 East		Stockpile 2 North		Stockpile 2 South					
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Sep-24-14 13:30		Sep-24-14 13:30		Sep-24-14 13:35		Sep-24-14 13:35					
BTEX by EPA 8021B	***Extracted:***	Sep-26-14 08:00		Sep-26-14 08:00		Sep-26-14 08:00		Sep-26-14 08:00					
	Analyzed:	Sep-26-14 11:12		Sep-26-14 12:18		Sep-26-14 14:55		Sep-26-14 12:51					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		ND	0.00118	ND	0.00114	ND	0.00130	ND	0.00114				
Toluene		ND	0.00236	ND	0.00227	ND	0.00261	ND	0.00228				
Ethylbenzene		ND	0.00118	ND	0.00114	ND	0.00130	ND	0.00114				
m_p-Xylenes		ND	0.00236	ND	0.00227	ND	0.00261	ND	0.00228				
o-Xylene		ND	0.00118	ND	0.00114	ND	0.00130	ND	0.00114				
Total Xylenes		ND	0.00118	ND	0.00114	ND	0.00130	ND	0.00114				
Total BTEX		ND	0.00118	ND	0.00114	ND	0.00130	ND	0.00114				
Inorganic Anions by EPA 300/300.1	***Extracted:***	Sep-26-14 16:00		Sep-26-14 16:00		Sep-26-14 16:00		Sep-26-14 16:00					
	Analyzed:	Sep-29-14 18:57		Sep-29-14 20:05		Sep-29-14 20:27		Sep-29-14 20:50					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		57.1	11.8	37.1	11.4	15.5	13.1	16.9	11.4				
Percent Moisture	***Extracted:***												
	Analyzed:	Sep-25-14 17:00		Sep-25-14 17:00		Sep-25-14 17:00		Sep-25-14 17:00					
	Units/RL:	%	RL	%	RL	%	RL	%	RL				
Percent Moisture		15.6	1.00	12.5	1.00	23.8	1.00	12.4	1.00				
TPH By SW8015 Mod	***Extracted:***	Sep-25-14 16:00		Sep-25-14 16:00		Sep-25-14 16:00		Sep-25-14 16:00					
	Analyzed:	Sep-26-14 08:32		Sep-26-14 12:04		Sep-26-14 12:33		Sep-26-14 12:58					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	17.8	ND	17.1	ND	19.6	ND	17.1				
C12-C28 Diesel Range Hydrocarbons		28.5	17.8	195	17.1	ND	19.6	29.4	17.1				
Total TPH		28.5	17.8	264	17.1	ND	19.6	29.4	17.1				

Julian Martinez
Project Manager

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

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

Form 2 - Surrogate Recoveries

Project Name: 282 Loop Drip Tank

Work Orders : 493931, 493931 **Project ID:** 7030T14G041

Lab Batch #: 951583 **Sample:** 493931-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/26/14 08:32

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.5	99.9	99	70-135	
o-Terphenyl	51.4	50.0	103	70-135	

Lab Batch #: 951591 **Sample:** 493931-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/26/14 11:12

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0326	0.0300	109	80-120	
4-Bromofluorobenzene	0.0303	0.0300	101	80-120	

Lab Batch #: 951583 **Sample:** 493931-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/26/14 12:04

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.0	99.6	96	70-135	
o-Terphenyl	50.6	49.8	102	70-135	

Lab Batch #: 951591 **Sample:** 493931-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/26/14 12:18

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0327	0.0300	109	80-120	
4-Bromofluorobenzene	0.0307	0.0300	102	80-120	

Lab Batch #: 951583 **Sample:** 493931-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/26/14 12:33

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.2	99.6	98	70-135	
o-Terphenyl	49.8	49.8	100	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: 282 Loop Drip Tank

Work Orders : 493931, 493931 **Project ID:** 7030T14G041

Lab Batch #: 951591 **Sample:** 493931-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/26/14 12:51

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0327	0.0300	109	80-120	
4-Bromofluorobenzene	0.0300	0.0300	100	80-120	

Lab Batch #: 951583 **Sample:** 493931-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/26/14 12:58

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	99.7	100	70-135	
o-Terphenyl	52.8	49.9	106	70-135	

Lab Batch #: 951591 **Sample:** 493931-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/26/14 14:55

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0325	0.0300	108	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

Lab Batch #: 951583 **Sample:** 662059-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/26/14 04:31

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	100	106	70-135	
o-Terphenyl	55.8	50.0	112	70-135	

Lab Batch #: 951591 **Sample:** 662061-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/26/14 09:32

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0305	0.0300	102	80-120	
4-Bromofluorobenzene	0.0265	0.0300	88	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: 282 Loop Drip Tank

Work Orders : 493931, 493931 **Project ID:** 7030T14G041

Lab Batch #: 951583 **Sample:** 662059-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/26/14 04:58

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	124	100	124	70-135	
o-Terphenyl	64.5	50.0	129	70-135	

Lab Batch #: 951591 **Sample:** 662061-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/26/14 09:49

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	80-120	
4-Bromofluorobenzene	0.0294	0.0300	98	80-120	

Lab Batch #: 951583 **Sample:** 662059-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/26/14 05:25

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	125	100	125	70-135	
o-Terphenyl	64.8	50.0	130	70-135	

Lab Batch #: 951591 **Sample:** 662061-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/26/14 10:05

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0314	0.0300	105	80-120	
4-Bromofluorobenzene	0.0303	0.0300	101	80-120	

Lab Batch #: 951583 **Sample:** 493931-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/26/14 09:01

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	62.1	50.0	124	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: 282 Loop Drip Tank

Work Orders : 493931, 493931 **Project ID:** 7030T14G041

Lab Batch #: 951591 **Sample:** 493931-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/26/14 10:22

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0336	0.0300	112	80-120	
4-Bromofluorobenzene	0.0358	0.0300	119	80-120	

Lab Batch #: 951583 **Sample:** 493931-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/26/14 09:28

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	99.9	119	70-135	
o-Terphenyl	63.4	50.0	127	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.

BS / BSD Recoveries

Project Name: 282 Loop Drip Tank

Work Order #: 493931, 493931 **Project ID:** 7030T14G041

Analyst: ARM **Date Prepared:** 09/26/2014 **Date Analyzed:** 09/26/2014

Lab Batch ID: 951591 **Sample:** 662061-1-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	0.0894	89	0.100	0.0924	92	3	70-130	35	
Toluene	<0.00200	0.100	0.0948	95	0.100	0.0981	98	3	70-130	35	
Ethylbenzene	<0.00100	0.100	0.0983	98	0.100	0.102	102	4	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.201	101	0.200	0.210	105	4	70-135	35	
o-Xylene	<0.00100	0.100	0.0958	96	0.100	0.0985	99	3	71-133	35	

Analyst: JUM **Date Prepared:** 09/26/2014 **Date Analyzed:** 09/29/2014

Lab Batch ID: 951773 **Sample:** 662100-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<2.00	50.0	52.5	105	50.0	47.2	94	11	80-120	20	

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

BS / BSD Recoveries

Project Name: 282 Loop Drip Tank

Work Order #: 493931, 493931 **Project ID:** 7030T14G041

Analyst: ARM **Date Prepared:** 09/25/2014 **Date Analyzed:** 09/26/2014

Lab Batch ID: 951583 **Sample:** 662059-1-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	904	90	1000	935	94	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	1090	109	1000	1120	112	3	70-135	35	

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

Form 3 - MS Recoveries

Project Name: 282 Loop Drip Tank

Work Order #: 493931

Lab Batch #: 951591 **Project ID:** 7030T14G041

Date Analyzed: 09/26/2014 **Date Prepared:** 09/26/2014 **Analyst:** ARM

QC- Sample ID: 493931-001 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX / MATRIX SPIKE RECOVERY STUDY Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Benzene	<0.00118	0.118	0.0952	81	70-130	
Toluene	<0.00236	0.118	0.0925	78	70-130	
Ethylbenzene	<0.00118	0.118	0.0945	80	71-129	
m_p-Xylenes	<0.00236	0.236	0.199	84	70-135	
o-Xylene	<0.00118	0.118	0.0969	82	71-133	

Lab Batch #: 951773

Date Analyzed: 09/29/2014 **Date Prepared:** 09/26/2014 **Analyst:** JUM

QC- Sample ID: 493945-001 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300 Analytes	MATRIX / MATRIX SPIKE RECOVERY STUDY Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	1480	5750	6910	94	80-120	

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

BRL - Below Reporting Limit

Form 3 - MS / MSD Recoveries

Project Name: 282 Loop Drip Tank

Work Order # : 493931 **Project ID:** 7030T14G041

Lab Batch ID: 951583 **QC- Sample ID:** 493931-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 09/26/2014 **Date Prepared:** 09/25/2014 **Analyst:** ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<17.8	1180	1020	86	1180	1060	90	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	28.5	1180	1250	104	1180	1320	109	5	70-135	35	

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

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

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

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

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Sample Duplicate Recovery

Project Name: 282 Loop Drip Tank

Work Order #: 493931

Lab Batch #: 951528 **Project ID:** 7030T14G041

Date Analyzed: 09/25/2014 17:00 **Date Prepared:** 09/25/2014 **Analyst:** WRU

QC- Sample ID: 493925-001 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	24.5	26.6	8	20	

Lab Batch #: 951528

Date Analyzed: 09/25/2014 17:00 **Date Prepared:** 09/25/2014 **Analyst:** WRU

QC- Sample ID: 493953-001 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	27.0	26.8	1	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

CHAIN OF CUSTODY RECORD

APEX

Office Location: Midland TX

Project Manager: Thomas Franklin

Laboratory: Xenco

Address:

Contact:

Phone:

PO/SO #:

Lab use only
Due Date:

Temp. of coolers when received (C°): 5°C

1	2	3	4	5

Page 1 of 1

Sampler's Name: Thomas Franklin

Sampler's Signature:

Proj. No.: 7030T14G041

Project Name: 282 Loop Drip Tank

No/Type of Containers: 4 / Glass

ANALYSIS REQUESTED: Chloride; BTEX 8021B; TPH 8015

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Chloride	BTEX 8021B	TPH 8015	Lab Sample ID (Lab Use Only)
S	9-24-14	13:30	X		Stockpile 1 West						X		X	X	X	493931
		13:30			Stockpile 1 East											
		13:35			Stockpile 2 North											
		13:35			Stockpile 2 South											

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	9-25-14	8:13	Julian Martinez	9-25-14	9:15
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES:
tfranklin@apexcos.com
direct bill to Regency

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil
Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: APEX/Titan

Date/ Time Received: 09/25/2014 08:15:00 AM

Work Order #: 493931

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

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	5
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**No**
#5 Custody Seals intact on sample bottles?	**No**
#6 *Custody Seals Signed and dated?	**No**
#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)?	**No**
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	**N/A**
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	**Yes**
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Kelsey Brooks Date: 09/25/2014

Checklist reviewed by: Kelsey Brooks Date: 09/25/2014

Summary Report

Thomas Franklin
APEX/Titan
2351 W. Northwest Hwy.
Suite 3321
Dallas, Tx 75220

Report Date: March 4, 2015

Work Order: 15022526

Project Location: Lea Co, NM
Project Name: regency-2B2 Loop Drip Tank
Project Number: 7030714G041.001

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
387570	Bottom Hole - 1	soil	2015-02-25	10:25	2015-02-25
387571	Confirmation Sample - 1	soil	2015-02-25	10:20	2015-02-25
387572	Confirmation Sample - 2	soil	2015-02-25	11:00	2015-02-25
387573	Confirmation Sample - 3	soil	2015-02-25	11:50	2015-02-25
387574	Confirmation Sample - 4	soil	2015-02-25	11:55	2015-02-25

	BTEX				TPH DRO - NEW	TPH GRO
Sample - Field Code	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
387570 - Bottom Hole - 1	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00
387571 - Confirmation Sample - 1	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00
387572 - Confirmation Sample - 2	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00
387573 - Confirmation Sample - 3	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00
387574 - Confirmation Sample - 4	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00

Sample: 387570 - Bottom Hole - 1

Param	Flag	Result	Units	RL
Chloride	Qr,Qs	<20.0	mg/Kg	4

Sample: 387571 - Confirmation Sample - 1

Param	Flag	Result	Units	RL
Chloride	Qr,Qs	<20.0	mg/Kg	4

Sample: 387572 - Confirmation Sample - 2

Param	Flag	Result	Units	RL
Chloride	Qr,Qs	<20.0	mg/Kg	4

Sample: 387573 - Confirmation Sample - 3

Param	Flag	Result	Units	RL
Chloride	Qr,Qs	<20.0	mg/Kg	4

Sample: 387574 - Confirmation Sample - 4

Param	Flag	Result	Units	RL
Chloride	Qr,Qs	<20.0	mg/Kg	4

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972•242•7750
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Thomas Franklin
APEX/Titan
2351 W. Northwest Hwy.
Suite 3321
Dallas, Tx, 75220

Report Date: March 4, 2015

Work Order: 15022526

Project Location: Lea Co, NM
Project Name: regency-2B2 Loop Drip Tank
Project Number: 7030714G041.001

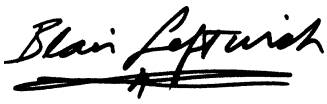
Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
387570	Bottom Hole - 1	soil	2015-02-25	10:25	2015-02-25
387571	Confirmation Sample - 1	soil	2015-02-25	10:20	2015-02-25
387572	Confirmation Sample - 2	soil	2015-02-25	11:00	2015-02-25
387573	Confirmation Sample - 3	soil	2015-02-25	11:50	2015-02-25
387574	Confirmation Sample - 4	soil	2015-02-25	11:55	2015-02-25

Notes

- **Work Order 15022526:** straight from field

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.



Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

Report Contents

Case Narrative

Samples for project regency-2B2 Loop Drip Tank were received by TraceAnalysis, Inc. on 2015-02-25 and assigned to work order 15022526. Samples for work order 15022526 were received intact at a temperature of 12.3 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	101164	2015-02-25 at 16:50	119667	2015-02-27 at 09:20
Chloride (Titration)	SM 4500-Cl B	101287	2015-03-03 at 15:23	119743	2015-03-03 at 15:25
TPH DRO - NEW	S 8015 D	101193	2015-02-26 at 15:00	119645	2015-02-27 at 10:08
TPH GRO	S 8015 D	101164	2015-02-25 at 16:50	119680	2015-02-27 at 10:25

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15022526 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 387570 - Bottom Hole - 1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	119667	Date Analyzed:	2015-02-27	Analyzed By:	AK
Prep Batch:	101164	Sample Preparation:	2015-02-25	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	1	<0.0200	mg/Kg	1	0.0200
Xylene	U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.69	mg/Kg	1	2.00	84	70 - 130
4-Bromofluorobenzene (4-BFB)			1.96	mg/Kg	1	2.00	98	70 - 130

Sample: 387570 - Bottom Hole - 1

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	119743	Date Analyzed:	2015-03-03	Analyzed By:	EM
Prep Batch:	101287	Sample Preparation:	2015-03-03	Prepared By:	EM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride	Qr,Qs,U		<20.0	mg/Kg	5	4.00

Sample: 387570 - Bottom Hole - 1

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	119645	Date Analyzed:	2015-02-27	Analyzed By:	SC
Prep Batch:	101193	Sample Preparation:	2015-02-26	Prepared By:	SC

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
DRO	U	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			95.4	mg/Kg	1	100	95	70 - 130

Sample: 387570 - Bottom Hole - 1

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	119680	Date Analyzed:	2015-02-27	Analyzed By:	AK
Prep Batch:	101164	Sample Preparation:	2015-02-25	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
GRO	U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.72	mg/Kg	1	2.00	86	70 - 130
4-Bromofluorobenzene (4-BFB)			1.74	mg/Kg	1	2.00	87	70 - 130

Sample: 387571 - Confirmation Sample - 1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	119667	Date Analyzed:	2015-02-27	Analyzed By:	AK
Prep Batch:	101164	Sample Preparation:	2015-02-25	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	1	<0.0200	mg/Kg	1	0.0200
Xylene	U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.74	mg/Kg	1	2.00	87	70 - 130
4-Bromofluorobenzene (4-BFB)			1.99	mg/Kg	1	2.00	100	70 - 130

Sample: 387571 - Confirmation Sample - 1

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	119743	Date Analyzed:	2015-03-03	Analyzed By:	EM
Prep Batch:	101287	Sample Preparation:	2015-03-03	Prepared By:	EM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride	Qr,Qs,U		<20.0	mg/Kg	5	4.00

Sample: 387571 - Confirmation Sample - 1

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	119645	Date Analyzed:	2015-02-27	Analyzed By:	SC
Prep Batch:	101193	Sample Preparation:	2015-02-26	Prepared By:	SC

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
DRO	Jb	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			98.0	mg/Kg	1	100	98	70 - 130

Sample: 387571 - Confirmation Sample - 1

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	119680	Date Analyzed:	2015-02-27	Analyzed By:	AK
Prep Batch:	101164	Sample Preparation:	2015-02-25	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
GRO	U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.76	mg/Kg	1	2.00	88	70 - 130
4-Bromofluorobenzene (4-BFB)			1.78	mg/Kg	1	2.00	89	70 - 130

Sample: 387572 - Confirmation Sample - 2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	119667	Date Analyzed:	2015-02-27	Analyzed By:	AK
Prep Batch:	101164	Sample Preparation:	2015-02-25	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	1	<0.0200	mg/Kg	1	0.0200
Xylene	U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.72	mg/Kg	1	2.00	86	70 - 130
4-Bromofluorobenzene (4-BFB)			2.01	mg/Kg	1	2.00	100	70 - 130

Sample: 387572 - Confirmation Sample - 2

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	119743	Date Analyzed:	2015-03-03	Analyzed By:	EM
Prep Batch:	101287	Sample Preparation:	2015-03-03	Prepared By:	EM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	Qr,Qs,U		<20.0	mg/Kg	5	4.00

Sample: 387572 - Confirmation Sample - 2

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	119645	Date Analyzed:	2015-02-27	Analyzed By:	SC
Prep Batch:	101193	Sample Preparation:	2015-02-26	Prepared By:	SC

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			95.7	mg/Kg	1	100	96	70 - 130

Sample: 387572 - Confirmation Sample - 2

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	119680	Date Analyzed:	2015-02-27	Analyzed By:	AK
Prep Batch:	101164	Sample Preparation:	2015-02-25	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.72	mg/Kg	1	2.00	86	70 - 130
4-Bromofluorobenzene (4-BFB)			1.78	mg/Kg	1	2.00	89	70 - 130

Sample: 387573 - Confirmation Sample - 3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	119667	Date Analyzed:	2015-02-27	Analyzed By:	AK
Prep Batch:	101164	Sample Preparation:	2015-02-25	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	1	<0.0200	mg/Kg	1	0.0200
Xylene	U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.77	mg/Kg	1	2.00	88	70 - 130
4-Bromofluorobenzene (4-BFB)			2.06	mg/Kg	1	2.00	103	70 - 130

Sample: 387573 - Confirmation Sample - 3

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	119743	Date Analyzed:	2015-03-03	Analyzed By:	EM
Prep Batch:	101287	Sample Preparation:	2015-03-03	Prepared By:	EM

continued ...

sample 387573 continued . . .

Parameter	Flag	Cert	RL Result	Units	Dilution	RL

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	Qr,Qs,U		<20.0	mg/Kg	5	4.00

Sample: 387573 - Confirmation Sample - 3

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	119645	Date Analyzed:	2015-02-27	Analyzed By:	SC
Prep Batch:	101193	Sample Preparation:	2015-02-26	Prepared By:	SC

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Jb	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			104	mg/Kg	1	100	104	70 - 130

Sample: 387573 - Confirmation Sample - 3

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	119680	Date Analyzed:	2015-02-27	Analyzed By:	AK
Prep Batch:	101164	Sample Preparation:	2015-02-25	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.77	mg/Kg	1	2.00	88	70 - 130
4-Bromofluorobenzene (4-BFB)			1.80	mg/Kg	1	2.00	90	70 - 130

Sample: 387574 - Confirmation Sample - 4

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	119667	Date Analyzed:	2015-02-27	Analyzed By:	AK
Prep Batch:	101164	Sample Preparation:	2015-02-25	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	1	<0.0200	mg/Kg	1	0.0200
Xylene	U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.68	mg/Kg	1	2.00	84	70 - 130
4-Bromofluorobenzene (4-BFB)			1.93	mg/Kg	1	2.00	96	70 - 130

Sample: 387574 - Confirmation Sample - 4

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	119743	Date Analyzed:	2015-03-03	Analyzed By:	EM
Prep Batch:	101287	Sample Preparation:	2015-03-03	Prepared By:	EM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride	Qr,Qs,U		<20.0	mg/Kg	5	4.00

Sample: 387574 - Confirmation Sample - 4

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	119645	Date Analyzed:	2015-02-27	Analyzed By:	SC
Prep Batch:	101193	Sample Preparation:	2015-02-26	Prepared By:	SC

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
DRO	U	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			90.1	mg/Kg	1	100	90	70 - 130

Sample: 387574 - Confirmation Sample - 4

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	119680	Date Analyzed:	2015-02-27	Analyzed By:	AK
Prep Batch:	101164	Sample Preparation:	2015-02-25	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
GRO	U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.69	mg/Kg	1	2.00	84	70 - 130
4-Bromofluorobenzene (4-BFB)			1.70	mg/Kg	1	2.00	85	70 - 130

Method Blanks

Method Blank (1) QC Batch: 119645

QC Batch: 119645 | Date Analyzed: 2015-02-27 | Analyzed By: SC
Prep Batch: 101193 | QC Preparation: 2015-02-26 | Prepared By: SC

Parameter	Flag	Cert	MDL Result	Units	RL
DRO		1	13.3	mg/Kg	50

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			96.4	mg/Kg	1	100	96	70 - 130

Method Blank (1) QC Batch: 119667

QC Batch: 119667 | Date Analyzed: 2015-02-27 | Analyzed By: AK
Prep Batch: 101164 | QC Preparation: 2015-02-25 | Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.00533	mg/Kg	0.02
Toluene		1	<0.00645	mg/Kg	0.02
Ethylbenzene		1	<0.0116	mg/Kg	0.02
Xylene		1	<0.00874	mg/Kg	0.02

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.82	mg/Kg	1	2.00	91	70 - 130
4-Bromofluorobenzene (4-BFB)			1.89	mg/Kg	1	2.00	94	70 - 130

Method Blank (1) QC Batch: 119680

QC Batch: 119680 | Date Analyzed: 2015-02-27 | Analyzed By: AK
Prep Batch: 101164 | QC Preparation: 2015-02-25 | Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
GRO		1	<2.32	mg/Kg	4

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.88	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			1.74	mg/Kg	1	2.00	87	70 - 130

Method Blank (1) QC Batch: 119743

QC Batch:	119743	Date Analyzed:	2015-03-03	Analyzed By:	EM
Prep Batch:	101287	QC Preparation:	2015-03-03	Prepared By:	EM

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride			<3.85	mg/Kg	4

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 119645 | Date Analyzed: 2015-02-27 | Analyzed By: SC
Prep Batch: 101193 | QC Preparation: 2015-02-26 | Prepared By: SC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1	286	mg/Kg	1	250	13.3	109	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		1	281	mg/Kg	1	250	13.3	107	70 - 130	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	104	104	mg/Kg	1	100	104	104	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 119667 | Date Analyzed: 2015-02-27 | Analyzed By: AK
Prep Batch: 101164 | QC Preparation: 2015-02-25 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	1.96	mg/Kg	1	2.00	<0.00533	98	70 - 130
Toluene		1	1.94	mg/Kg	1	2.00	<0.00645	97	70 - 130
Ethylbenzene		1	1.96	mg/Kg	1	2.00	<0.0116	98	70 - 130
Xylene		1	5.90	mg/Kg	1	6.00	<0.00874	98	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	1.93	mg/Kg	1	2.00	<0.00533	96	70 - 130	2	20
Toluene		1	1.87	mg/Kg	1	2.00	<0.00645	94	70 - 130	4	20
Ethylbenzene		1	1.90	mg/Kg	1	2.00	<0.0116	95	70 - 130	3	20
Xylene		1	5.81	mg/Kg	1	6.00	<0.00874	97	70 - 130	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.78	1.80	mg/Kg	1	2.00	89	90	70 - 130
4-Bromofluorobenzene (4-BFB)	1.99	1.95	mg/Kg	1	2.00	100	98	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 119680 | Date Analyzed: 2015-02-27 | Analyzed By: AK
Prep Batch: 101164 | QC Preparation: 2015-02-25 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		1	20.4	mg/Kg	1	20.0	<2.32	102	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO		1	22.1	mg/Kg	1	20.0	<2.32	110	70 - 130	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.88	1.93	mg/Kg	1	2.00	94	96	70 - 130
4-Bromofluorobenzene (4-BFB)	1.80	1.84	mg/Kg	1	2.00	90	92	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 119743 | Date Analyzed: 2015-03-03 | Analyzed By: EM
Prep Batch: 101287 | QC Preparation: 2015-03-03 | Prepared By: EM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2150	mg/Kg	5	2500	<19.2	86	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2050	mg/Kg	5	2500	<19.2	82	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 387574

QC Batch: 119645 | Date Analyzed: 2015-02-27 | Analyzed By: SC
Prep Batch: 101193 | QC Preparation: 2015-02-26 | Prepared By: SC

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		[1]	241	mg/Kg	1	250	<7.41	96	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		[1]	235	mg/Kg	1	250	<7.41	94	70 - 130	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	99.2	99.7	mg/Kg	1	100	99	100	70 - 130

Matrix Spike (MS-1) Spiked Sample: 387434

QC Batch: 119667 | Date Analyzed: 2015-02-27 | Analyzed By: AK
Prep Batch: 101164 | QC Preparation: 2015-02-25 | Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		[1]	1.59	mg/Kg	1	2.00	<0.00533	80	70 - 130
Toluene		[1]	1.63	mg/Kg	1	2.00	<0.00645	82	70 - 130
Ethylbenzene		[1]	1.76	mg/Kg	1	2.00	<0.0116	88	70 - 130
Xylene		[1]	5.30	mg/Kg	1	6.00	<0.00874	88	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		[1]	1.57	mg/Kg	1	2.00	<0.00533	78	70 - 130	1	20
Toluene		[1]	1.60	mg/Kg	1	2.00	<0.00645	80	70 - 130	2	20
Ethylbenzene		[1]	1.70	mg/Kg	1	2.00	<0.0116	85	70 - 130	4	20
Xylene		[1]	5.18	mg/Kg	1	6.00	<0.00874	86	70 - 130	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.71	1.79	mg/Kg	1	2	86	90	70 - 130
4-Bromofluorobenzene (4-BFB)	2.01	2.02	mg/Kg	1	2	100	101	70 - 130

Matrix Spike (MS-1) Spiked Sample: 387434

QC Batch: 119680 | Date Analyzed: 2015-02-27 | Analyzed By: AK
Prep Batch: 101164 | QC Preparation: 2015-02-25 | Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		1	13.9	mg/Kg	1	20.0	<2.32	70	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO		1	15.6	mg/Kg	1	20.0	<2.32	78	70 - 130	12	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.73	1.80	mg/Kg	1	2	86	90	70 - 130
4-Bromofluorobenzene (4-BFB)	1.83	1.93	mg/Kg	1	2	92	96	70 - 130

Matrix Spike (MS-1) Spiked Sample: 387809

QC Batch: 119743 | Date Analyzed: 2015-03-03 | Analyzed By: EM
Prep Batch: 101287 | QC Preparation: 2015-03-03 | Prepared By: EM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride Qs	Qs		718	mg/Kg	5	2500	513	8	78.9 - 121

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride Qr,Qs	Qr,Qs		513	mg/Kg	5	2500	513	0	78.9 - 121	33	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (CCV-1)

QC Batch: 119645 Date Analyzed: 2015-02-27 Analyzed By: SC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	270	108	80 - 120	2015-02-27

Standard (CCV-2)

QC Batch: 119645 Date Analyzed: 2015-02-27 Analyzed By: SC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	276	110	80 - 120	2015-02-27

Standard (CCV-1)

QC Batch: 119667 Date Analyzed: 2015-02-27 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.0931	93	80 - 120	2015-02-27
Toluene		1	mg/kg	0.100	0.0908	91	80 - 120	2015-02-27
Ethylbenzene		1	mg/kg	0.100	0.0932	93	80 - 120	2015-02-27
Xylene		1	mg/kg	0.300	0.281	94	80 - 120	2015-02-27

Standard (CCV-2)

QC Batch: 119667 Date Analyzed: 2015-02-27 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.100	100	80 - 120	2015-02-27
Toluene		1	mg/kg	0.100	0.0973	97	80 - 120	2015-02-27
Ethylbenzene		1	mg/kg	0.100	0.0981	98	80 - 120	2015-02-27
Xylene		1	mg/kg	0.300	0.296	99	80 - 120	2015-02-27

Standard (CCV-3)

QC Batch: 119667 Date Analyzed: 2015-02-27 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.100	100	80 - 120	2015-02-27
Toluene		1	mg/kg	0.100	0.0973	97	80 - 120	2015-02-27
Ethylbenzene		1	mg/kg	0.100	0.0981	98	80 - 120	2015-02-27
Xylene		1	mg/kg	0.300	0.296	99	80 - 120	2015-02-27

Standard (CCV-1)

QC Batch: 119680 Date Analyzed: 2015-02-27 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	1.08	108	80 - 120	2015-02-27

Standard (CCV-2)

QC Batch: 119680 Date Analyzed: 2015-02-27 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.996	100	80 - 120	2015-02-27

Standard (CCV-3)

QC Batch: 119680 | Date Analyzed: 2015-02-27 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.963	96	80 - 120	2015-02-27

Standard (ICV-1)

QC Batch: 119743 | Date Analyzed: 2015-03-03 | Analyzed By: EM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	102	102	85 - 115	2015-03-03

Standard (CCV-1)

QC Batch: 119743 | Date Analyzed: 2015-03-03 | Analyzed By: EM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	98.0	98	85 - 115	2015-03-03

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-14-8	Midland

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

WO# 15022526

CHAIN OF CUSTODY RECORD

APEX

Office Location: Midland TX

Project Manager: Thomas Franklin

Laboratory: Trace Analysis

Address: Midland TX

Contact:

Phone:

PO/SO #:

Lab use only
Due Date:

Temp. of coolers when received (C°): 1 2.3

1	2	3	4	5

Page 1 of 1

Sampler's Name: Thomas Franklin

Sampler's Signature:

Proj. No.: 703071HG041.001

Project Name: Lea Co NM
Regency - 2B2 Loop Drip Tank

ANALYSIS REQUESTED

No/Type of Containers

Matrix	Date 2015	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O Ice	BTEX 8021B	TPH 8015M 8021B/GRO	Chloride 300.1	Lab Sample ID (Lab Use Only)
S	2/25	10:25	X		Bottom Hole - 1	22'	24'				X	X	X	X	X	387570
		10:20			Confirmation Sample-1	3'	9'									387571
		11:00			Confirmation Sample-2	3'	9'									387572
		11:50			Confirmation Sample-3	3'	9'									387573
		11:55			Confirmation Sample-4	3'	9'									387574

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	2-25-15	14:37	Denise Dunlap	2-25-15	14:38
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES:
Direct bill Regency
Samples are from the field.

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil
Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

WO# 15022526

CHAIN OF CUSTODY RECORD

APEX

Office Location: Midland Tx

Project Manager: Thomas Franklin

Laboratory: Trace Analysis

Address: Midland TX

Contact:

Phone:

PO/SO #:

Lab use only
Due Date:

Temp. of coolers when received (C°): 12.3

1 | 2 | 3 | 4 | 5

Page 1 of 1

Sampler's Name: Thomas Franklin

Sampler's Signature:

Proj. No.: 703071HG041.001

Project Name: Lea Co NM

Regency - 2B2 Loop Drip Tank

ANALYSIS REQUESTED: BTEX 8021B; TPH 8015M 8021/GRO; Chloride 300.1

No/Type of Containers

Matrix	Date 2015	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O Lte	BTEX	TPH	Chloride	Lab Sample ID (Lab Use Only)
S	2/25	10:25	X		Bottom Hole - 1	22'	24'				X	X	X	X	X	387570
		10:20			Confirmation Sample - 1	3'	9'									387571
		11:00			Confirmation Sample - 2	3'	9'									387572
		11:50			Confirmation Sample - 3	3'	9'									387573
		11:55			Confirmation Sample - 4	3'	9'									387574

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	2-25-15	14:37	Denise Dunlap	2-25-15	14:38
Denise Dunlap	2-25-15	15:30			
			Haylea TA 1.2.3 5.8/5.8c	2/26/15	1010

NOTES:
Direct bill Regency
Samples are from the field.

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

LS 25214201

APPENDIX E

Initial and Final C-144

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-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐
Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: Southern Union Gas Services Telephone: 575-395-2116 e-mail address: tony.savoie @sug.com
Address: P.O. Box 1226 Jal, New Mexico 88252
Facility or well name: 2B2 Loop Drip Tank API #: _____ U/L or Qtr/Qtr C Sec 34 T 24 S R 37E
County: Lea Latitude 32 deg. 10.708N Longitude 103 deg. 9.169W NAD: 1927 ☒ 1983 ☐
Surface Owner: Federal ☐ State ☐ Private ☒ Indian ☐

Pit	**Below-grade tank**	
Type: Drilling ☐ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☐ Unlined ☐ Liner type: Synthetic ☐ Thickness ____mil Clay ☐ Pit Volume _____bbl	Volume: _167_bbl Type of fluid: __Produced water and crude oil Construction material: __Steel_____ Double-walled, with leak detection? Yes ☐ If not, explain why not. __Tank was installed by EPNG before the BGT regulations were written__	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) Average 56 ft.	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.) No, 2004 Horiz. Ft. to a private water well	Yes No	(20 points) (0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, gation canals, ditches, and perennial and ephemeral watercourses.) 1.63 Horizontal miles to a playa and an intermittent water course.	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points)
	Ranking Score (Total Points)	10 Points

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite ☐ offsite ☐ If offsite, name of facility_____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface_____ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: The Below Grade Tank will be removed in accordance with the NMOCD proposed Pit and Below Grade Tank Rules.

RECEIVED
MAY 29 2008
HOBBS OCD

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**

Date: _5/21/08_____
Printed Name/ Tony Savoie
Title ___Waste Management and Remediation Specialist Signature Tony Savoie

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

proval:
Printed Name/Title _____ Signature Johnson ENVIRONMENTAL ENGINEER Date: 5-23-08

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

Form C-144
Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action:
- ☐ Below grade tank registration
- ☐ Permit of a pit or proposed alternative method
- ☒ Closure of a pit, below-grade tank, or proposed alternative method
- ☐ Modification to an existing permit/or registration
- ☐ Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.

Operator: Regency Field Services LLC. OGRID #: N/A

Address: 421 West 3rd Street, Suite 250, Ft. Worth, TX 76102

Facility or well name: 2B2 Loop Drip Tank

API Number: _____ OCD Permit Number: _____

U/L or Qtr/Qtr C Section 34 Township 24S Range 37E County: Lea

Center of Proposed Design: Latitude 32.178446 Longitude -103.152843 NAD: ☐1927 ☐ 1983

Surface Owner: ☐ Federal ☐ State ☒ Private ☐ Tribal Trust or Indian Allotment

2.

☐ **Pit:** Subsection F, G or J of 19.15.17.11 NMAC

Temporary: ☐ Drilling ☐ Workover

☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no

☐ Lined ☐ Unlined Liner type: Thickness _____mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____

☐ String-Reinforced

Liner Seams: ☐ Welded ☐ Factory ☐ Other _____ Volume: _____bbl Dimensions: L_____ x W_____ x D_____

3.

☒ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC

Volume: 167 bbl Type of fluid: Produced Water and Crude Oil

Tank Construction material: Steel

☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off

☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other Tank was installed by EPNG before the BGT regulations were written

Liner type: Thickness _____mil ☐ HDPE ☐ PVC ☐ Other _____

4.

☐ **Alternative Method:**

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.

Fencing: Subsection D of 19.15.17.11 NMAC *(Applies to permanent pits, temporary pits, and below-grade tanks)*

☐ Chain link, six feet in height, two strands of barbed wire at top *(Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)*

☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet

☐ Alternate. Please specify_____

6.

Netting: Subsection E of 19.15.17.11 NMAC *(Applies to permanent pits and permanent open top tanks)*

☐ Screen ☐ Netting ☐ Other_____

☐ Monthly inspections (If netting or screening is not physically feasible)

7.

Signs: Subsection C of 19.15.17.11 NMAC

☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

☐ Signed in compliance with 19.15.16.8 NMAC

8.

Variances and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.

☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. **Siting criteria does not apply to drying pads or above-grade tanks.**

General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - ☐ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells	☐ Yes ☒ No ☐ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit . NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☒ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. **(Does not apply to below grade tanks)** - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. **(Does not apply to below grade tanks)** - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. **(Does not apply to below grade tanks)** - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain. **(Does not apply to below grade tanks)** - FEMA map	☐ Yes ☐ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

10.

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

11.

Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ A List of wells with approved application for permit to drill associated with the pit.
☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
☐ Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12.

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plan
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Nuisance or Hazardous Odors, including H_2S, Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

13.

Proposed Closure: 19.15.17.13 NMAC

Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

Type: ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☒ Below-grade Tank ☐ Multi-well Fluid Management Pit ☐ Alternative

Proposed Closure Method: ☒ Waste Excavation and Removal
☐ Waste Removal (Closed-loop systems only)
☐ On-site Closure Method (Only for temporary pits and closed-loop systems)
☐ In-place Burial ☐ On-site Trench Burial
☐ Alternative Closure Method

14.

Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☒ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☒ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC
- ☒ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- ☒ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☒ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15.

Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC

Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain. - FEMA map	☐ Yes ☐ No

16.

On-Site Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
- ☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
- ☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☒ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☒ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- ☒ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☒ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17.

Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): _____ Title: _____

Signature:_____ Date: _____

e-mail address:_____ Telephone: _____

18.

OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: _____ Approval Date: _____

Title: _____ OCD Permit Number:_____

19.

Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☐ **Closure Completion Date:_____**

20.

Closure Method:

☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)

☐ If different from approved plan, please explain.

21.

Closure Report Attachment Checklist: ***Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.***

- ☐ Proof of Closure Notice (surface owner and division)
- ☐ Proof of Deed Notice (required for on-site closure for private land only)
- ☐ Plot Plan (for on-site closures and temporary pits)
- ☒ Confirmation Sampling Analytical Results (if applicable)
- ☐ Waste Material Sampling Analytical Results (required for on-site closure)
- ☐ Disposal Facility Name and Permit Number
- ☒ Soil Backfilling and Cover Installation
- ☐ Re-vegetation Application Rates and Seeding Technique
- ☒ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude _____ Longitude _____ NAD: ☐1927 ☐ 1983

22.

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): CRYSTAL CALLAWAY Title: SR Environmental Compliance Remediation Spec

Signature: Crystal Callaway Date: 4/8/15

e-mail address: CRYSTAL.CALLAWAY@REGENCYGAS.COM Telephone: 817 807 6514