<u>District 1</u> 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								
ease 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 avironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.								
Operator: Regency Field Services, LLC OGRID#:								
Address: 801 South Loop 464 Monahans, Texas 79756								
Facility or well name: Drip Tank #111 RP-1820								
API Number: OCD Permit Number:  U/L or Qtr/Qtr E Section 27 Township 22S Range 36E County: Lea Co, NM								
Center of Proposed Design: Latitude 32 21.904 Longitude -103 15.517 NAD: 1927 🖺 1983								
Surface Our or Fodoral C State X Drivete C Tribel Treat or Indian Alletra out								
2.								
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								
Below-grade tank: Subsection I of 19.15.17.11 NMAC   Volume: 100 bbl								
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other Tank was installed by EPNG before BGT regulations								
Liner type: Thickness N/A mil HDPE PVC Other								
Alternative Method:  Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Burgan of fice for consideration of approval.								
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	
Grighted in computation with 17/13/16/14/14/16	
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 accematerial are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
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 X No
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. ( <b>Does not apply to below grade tanks</b> )  - 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
<ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ 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.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
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
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 Natural Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do 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   Design Plan - based upon the appropriate requirements of 19.15.17.10 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. and 19.15.17.13 NMAC	O NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:	
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 do 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 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	).15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:	

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 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     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 <sub>2</sub> S, 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	woenments are
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 F 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	luid Management Pit
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be 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 sout provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 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
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
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 En	MNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area.  - Engineering measures incorporated into the design; NM Bur Society; Topographic map	reau of Geology & Mineral Resources; USGS; NM C	Geological ☐ Yes ☐ No
Within a 100-year floodplain.		
- FEMA map		Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instruction by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate regular Construction/Design Plan of Burial Trench (if applicable) base Construction/Design Plan of Temporary Pit (for in-place burial Protocols and Procedures - based upon the appropriate requires Confirmation Sampling Plan (if applicable) - based upon the appropriate regular Waste Material Sampling Plan - based upon the appropriate regular Disposal Facility Name and Permit Number (for liquids, drilling Soil Cover Design - based upon the appropriate requirements Re-vegetation Plan - based upon the appropriate requirements Site Reclamation Plan - based upon the appropriate requirements	appropriate requirements of 19.15.17.10 NMAC requirements of Subsection E of 19.15.17.13 NMAC sed upon the appropriate requirements of Subsection al of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC appropriate requirements of 19.15.17.13 NMAC equirements of 19.15.17.13 NMAC ing fluids and drill cuttings or in case on-site closure of Subsection H of 19.15.17.13 NMAC sof Subsection H of 19.15.17.13 NMAC	K of 19.15.17.11 NMAC irements of 19.15.17.11 NMAC
Operator Application Certification:		
I hereby certify that the information submitted with this application	is true, accurate and complete to the best of my kno	wledge and belief.
Name (Print):	Title:	
Signature:	Date:	
c-mail address:	Telephone:	
OCD Approval: Permit Application (including closure plan) [	Closure Plan (only) OCD Conditions (see a	attachment)
	_ ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	,
OCD Representative Signature:		
OCD Representative Signature:  Title:		
-	OCD Permit Number:  19.15.17.13 NMAC  re plan prior to implementing any closure activities  n 60 days of the completion of the closure activities	Date:and submitting the closure report.
19. Closure Report (required within 60 days of closure completion): Instructions: Operators are required to obtain an approved closur The closure report is required to be submitted to the division within section of the form until an approved closure plan has been obtain	OCD Permit Number:  19.15.17.13 NMAC  re plan prior to implementing any closure activities in 60 days of the completion of the closure activities and the closure activities have been completed.	Date:and submitting the closure report.
19. Closure Report (required within 60 days of closure completion): Instructions: Operators are required to obtain an approved closure The closure report is required to be submitted to the division within section of the form until an approved closure plan has been obtain	Approval D  OCD Permit Number:  19.15.17.13 NMAC  re plan prior to implementing any closure activities in 60 days of the completion of the closure activities and the closure activities have been completed.  Closure Completion Date:	and submitting the closure report.  Please do not complete this
19. Closure Report (required within 60 days of closure completion): Instructions: Operators are required to obtain an approved closur The closure report is required to be submitted to the division within section of the form until an approved closure plan has been obtain  20. Closure Method:  Waste Excavation and Removal On-Site Closure Method	OCD Permit Number:  19.15.17.13 NMAC  re plan prior to implementing any closure activities in 60 days of the completion of the closure activities and the closure activities have been completed.  Closure Completion Date:  Alternative Closure Method Waste Rem  re following items must be attached to the closure re  land only)	and submitting the closure report.  Please do not complete this  oval (Closed-loop systems only)

Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure report belief. I also certify that the closure complies with all applicable closure requirements	
Name (Print): Phillip Litte	Title: EH&S Specialist
Signature: Phys Adb	Date: 8/21/13
c-mail address: phillip.little@SUG.com	Telephone: <u>575-631-2586</u>

approved

Environmental Specialist

NMOCD-015T 1 9/4/13

### Basin Environmental Service Technologies, LLC

3100 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260
jwlowry@basinenv.com

Office: (575) 396-2378 Fax: (575) 396-1429



## REMEDIATION SUMMARY & RISK-BASED SITE CLOSURE REQUEST

REGENCY FIELD SERVICES
DRIP TANK #111
HISTORICAL RELEASE SITE
Lea County, New Mexico
W/NW), Section 27, Township 22 South, R

Unit Letter "E" (SW/NW), Section 27, Township 22 South, Range 36 East Latitude 32° 21.904' North, Longitude 103° 15.517' West NMOCD Reference # 1RP-1820

Prepared For:

Regency Field Services, LLC 801 S. Loop 464 Monahans, TX 79756

Prepared By:
Basin Environmental Service Technologies, LLC
3100 Plains Highway
Lovington, New Mexico 88260

August 2013

HOBBS OCD

AUG 2 3 2013

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### **FIGURES**

Figure 1 – Site Location Map

Figure 2 – Site & Sample Location Map

### **TABLES**

Table 1 – Concentrations of Benzene, BTEX, TPH & Chloride in Soil

### **APPENDICES**

Appendix A – Photographs

Appendix B – Disposal Manifests

Appendix C – Laboratory Analytical Reports

Appendix D – Soil Boring Logs

Appendix E – Pit or Below-Grade Tank Registration Form (Form C-144)

### 1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of Regency Field Services (Regency), has prepared this *Remediation Summary & Risk-Based Site Closure Request* for the Drip Tank #111 Historical Release Site (1RP-1820). The legal description of the release site is Unit Letter "E" (SW/NW), Section 27, Township 22 South, Range 36 East, in Lea County, New Mexico. The geographic coordinates of the release site are 32° 21.904' North latitude and 103° 15.517' West longitude. The property affected by the release is owned Mr. Mathew Casey.

On March 19, 2008, Southern Union filed a "Pit or Below-Grade Tank Registration of Closure Form" (Form C-144) with the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office, registering the Drip Tank #111 and notifying them of their intentions to remove an onsite below-grade tank (BGT) and remediate the area. The Form C-144 described the BGT as a steel, one hundred barrel (100 bbl) tank used to contain produced water and crude oil. The C-144 indicated the tank was installed by El Paso Natural Gas (EPNG) before the BGT regulations were written.

On or around March 17, 2008, the BGT was removed, and the adjacent soil was remediated. Five (5) soil samples (Floor, North Wall, East Wall, South Wall and West Wall) were collected from the associated excavated area defined by the former BGT location and submitted to Cardinal Laboratories for analysis of total petroleum hydrocarbon (TPH) concentrations. Laboratory analytical results indicated TPH concentrations ranged from less than the appropriate laboratory method detection limit (MDL) for soil samples South Wall and West Wall to 35.6 mg/Kg for soil sample East Wall. Soil sample Floor was also analyzed for concentrations of chloride, which were determined to be 33.1 mg/Kg. During the on-site tank removal and associated remediation activities; a historical "pit" was discovered north of the BGT location. General photographs of the release site are provided as Appendix A. The Form C-144 is provided as Appendix E.

### 2.0 NMOCD SITE CLASSIFICATION

The initial C-144 indicated that the depth to groundwater is approximately two hundred feet (200') below ground surface (bgs). Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

A search of the New Mexico Water Rights Reporting System (NMWRRS) database indicated there are no registered water wells within one thousand feet (1,000') feet of the location. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

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

NMOCD guidelines indicate the Drip Tank #111 Historical Release Site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

Benzene – 10 mg/Kg (ppm)

- Benzene, toluene, ethylbenzene and xylene (BTEX) 50 mg/Kg (ppm)
- Total petroleum hydrocarbons (TPH) 5,000 mg/Kg (ppm)

The New Mexico Administrative Code (NMAC) does not currently specify a remediation level for chloride concentrations in soil. Chloride remediation levels are set by the NMOCD on a site-specific basis.

### 3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On April 29, 2013, three (3) soil bores were advanced at the location in an effort to determine the vertical and horizontal extent of soil impact. Soil bore SB-1 was advanced to approximately forty feet (40') bgs in the western portion of the inferred pit location. During the advancement of the soil bore, soil samples were collected at ten-foot (10') drilling intervals and submitted to Cardinal Laboratories of Hobbs, New Mexico, for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX concentrations were less than the appropriate laboratory MDL for each of the submitted soil samples, with the exception of SB-1 @ 30', which had a concentration of 0.00455 mg/Kg. TPH concentrations were less than the appropriate MDL for each of the submitted soil samples with the exception of SB-1 @ 10', which had a concentration of 16.3 mg/Kg. Chloride concentrations ranged from 8.59 mg/Kg for soil sample SB-1 @ 10' to 57.3 mg/Kg for soil sample SB-1 @ 20'. Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chloride in Soil". Soil sample locations are depicted in Figure 2, "Site & Sample Location Map". Laboratory analytical reports are provided as Appendix C. Soil boring logs are provided as Appendix D.

Soil bore SB-2 was located approximately twenty-five feet (25') west of SB-1. Soil bore SB-2 was advanced to approximately forty feet (40') bgs. During the advancement of the soil bore, soil samples were collected at ten-foot (10') drilling intervals and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX concentrations were less than the appropriate laboratory MDL for each of the submitted soil samples. TPH concentrations ranged from 18.0 for soil sample SB-2 @ 30' to 48.8 mg/Kg for soil sample SB-2 @ 10'. Chloride concentrations ranged from 44.5 mg/Kg for soil sample SB-2 @ 30' to 911 mg/Kg for soil sample SB-2 @ 10'.

Soil bore SB-3 was located approximately twenty-five feet (25') west of SB-2. Soil bore SB-3 was advanced to approximately one hundred feet (100') bgs. During the advancement of the soil bore, soil samples were collected at ten-foot (10') drilling intervals and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX concentrations ranged from less than the appropriate laboratory MDL for soil samples SB-3 @ 80', SB-3 @ 90' and SB-3 @ 100' to 0.0491 mg/Kg for soil sample SB-3 @ 30'. TPH concentrations ranged from 100 mg/Kg for soil sample SB-3 @ 90' to 8,590 mg/Kg for soil sample SB-3 @ 10'. Chloride concentrations ranged from 47.0 mg/Kg for soil sample SB-3 @ 100' bgs to 267 mg/Kg for soil sample SB-3 @ 10' bgs.

On June 10, 2013, Basin began excavation activities at the remediation site. The floor of the excavation was advanced to approximately twelve feet (12') bgs. Excavation sidewalls were advanced until field tests suggested concentrations of BTEX, TPH and chloride were less than

NMOCD regulatory standards. Excavated material was stockpiled on-site pending final disposition.

On June 21, 2013, Basin collected three (3) soil samples (South Floor #1 @ 11', South Wall #1 and TT-1 @ 19') and submitted them to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH concentrations ranged from 2,829 mg/Kg for soil sample South Floor #1 @ 11' to 5,007 mg/Kg for soil sample TT-1 @ 19'. Chloride concentrations ranged from 32.0 mg/Kg for soil sample South Wall #1 to 208 mg/Kg for soil sample TT-1 @ 19'. Soil sample TT-1 @ 19' was also analyzed for BTEX concentrations which were determined to be 5.05 mg/Kg.

In addition, one (1) five-point composite soil sample (6-21-13 Stockpile) was collected from the stockpiled material and submitted to the laboratory for determination of TPH and chloride concentrations, which were determined to be 4,520 mg/Kg and 80.0 mg/Kg, respectively. Excavation activities continued to the north.

On July 1, 2013, six (6) soil samples (North SW #1, North SW #2, South SW #1b, South SW #2, East SW #1 and East SW #2) were collected from the excavation sidewalls and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX and TPH concentrations were less than the appropriate laboratory MDL for each of the submitted soil samples. Chloride concentrations ranged from less than the laboratory MDL for soil samples South SW #2 and East SW #1 to 240 mg/Kg for soil sample North SW #1. BTEX, TPH and chloride concentrations were below NMOCD regulatory standards in each of the submitted sidewall soil samples.

In addition, four (4) five-point composite soil samples (Stockpile #1, Stockpile #2, Stockpile #3 and Stockpile #4) were collected from the on-site stockpiles and submitted to the laboratory for determination of TPH and chloride concentrations. Laboratory analytical results indicated TPH concentrations ranged from 2,907 mg/Kg for soil sample Stockpile #3 to 3,094 mg/Kg for soil sample Stockpile #2. Soil samples Stockpile #1, Stockpile #3 and Stockpile #4 were also analyzed for BTEX concentrations which were determined to be less than the laboratory MDL for each of the submitted soil samples.

On July 2, 2013, two (2) soil samples (West SW #1 and West SW #2) were collected from the excavation sidewalls and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX concentrations were less than the laboratory MDL for each of the submitted soil samples. TPH concentrations ranged from less than the laboratory MDL for soil sample West SW #1 to 57.4 mg/Kg for soil sample West SW #2. Chloride concentrations ranged from 48.0 mg/Kg for soil sample West SW #1 to 416 mg/Kg for soil sample West SW #2. BTEX, TPH and chloride concentrations were below NMOCD regulatory standards in each of the submitted sidewall soil samples.

On July 3, 2013, one (1) soil sample (Center Floor) was collected from the floor of the excavation and submitted to the laboratory for analysis of TPH and chloride concentrations, which were determined to be 6,280 mg/Kg and 142 mg/Kg, respectively. Based on laboratory analytical results from soil samples TT-1 @ 19' and Center Floor, it was determined that a risk-based closure would be sought.

Between June 16, and June 22, 2013, approximately three hundred (300) cubic yards of impacted material represented by soil sample Stockpile #3 was transported to Sundance Services, Inc. (NMOCD Permit #NM-01-0003), for disposal. The final dimensions of the excavation were approximately sixty-five feet (65') in length, sixty feet (60') in width and twelve feet (12') in depth. Copies of disposal manifests are provided as Appendix B.

On June 22, 2013, on receiving approval from an NMOCD representative, a twenty-millimeter (20mm) polyurethane liner was installed in the floor of the excavation at approximately twelve feet (12') bgs. A one-foot (1') layer of pad sand was installed above and below the liner to maintain its integrity during backfilling activities. This engineering control was designed to inhibit the vertical migration of contaminants left in-situ. Upon installation of the liner, the excavation was backfilled with on-site soil represented by soil samples Stockpile #1, Stockpile #3 and Stockpile #4. Excavation backfill was compacted in lifts and contoured to match the surrounding topography. The location will be reseeded at a time more conducive to germination.

### 4.0 QA/QC PROCEDURES

### 4.1 Soil Sampling

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

- BTEX concentrations in accordance with EPA Method SW-846 8021b
- TPH concentrations in accordance with modified EPA Method SW-846 8015M
- Chloride concentrations in accordance with EPA Method 300.0 and/or 4500 Cl-B.

### 4.2 Decontamination of Equipment

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

### 4.3 Laboratory Protocol

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

### 5.0 SITE CLOSURE REQUEST

Laboratory analytical results from confirmation soil samples collected from the sidewalls of the Drip Tank #111 excavation indicated concentrations of benzene, BTEX, TPH and chloride were less than NMOCD regulatory standards. An approved twenty-millimeter (20mm) polyurethane was installed in the floor of the excavation at approximately twelve feet (12') bgs. This engineering control is designed to inhibit the vertical migration of contaminants left in-situ. Based on these laboratory analytical results and the installation of an approved engineering control, Basin recommends Regency provide the NMOCD Hobbs District Office a copy of this *Remediation Summary & Risk-Based Site Closure Request* and request the NMOCD grant site closure to the Drip Tank #111 Historical Release Site.

### 6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Risk-Based Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin has not conducted an independent examination of the facts contained in referenced materials and statements. Basin has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

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

### 7.0 DISTRIBUTION

Copy 1: Geoffrey Leking

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division (District 1)

1625 French Drive Hobbs, NM 88240

GeoffreyR.Leking@state.nm.us

Copy 2: Phillip Little

Regency Field Services

801 S. Loop 464

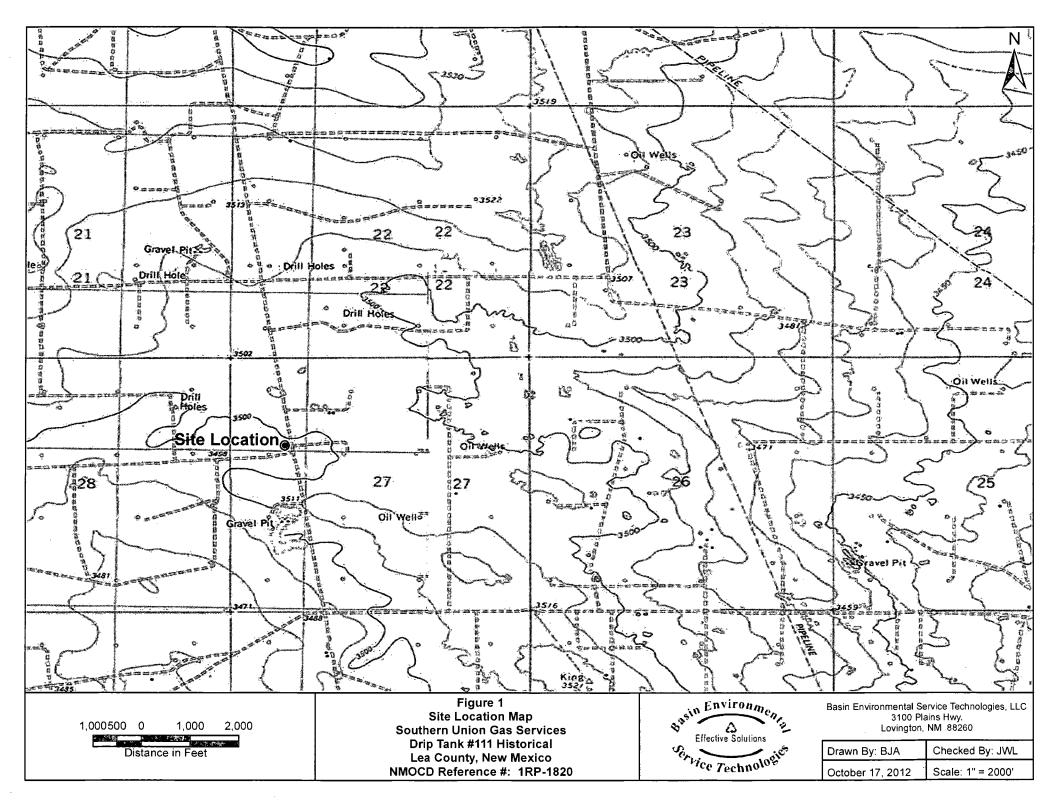
Monahans, Texas 79756 Phillip.little@sug.com

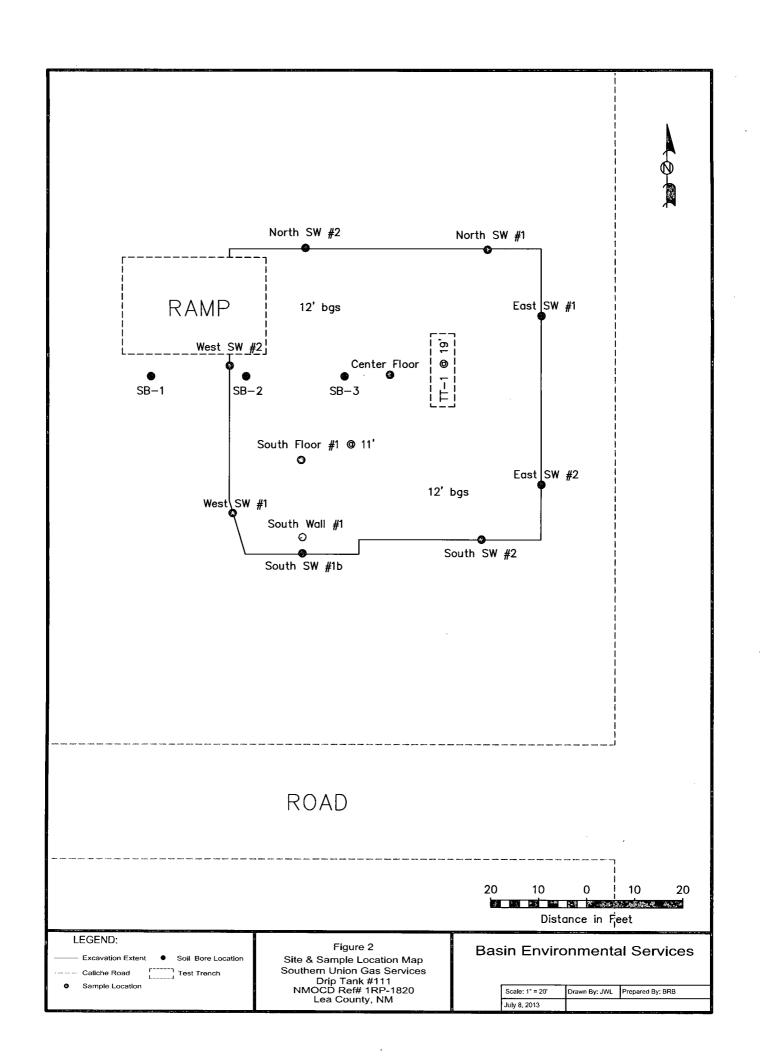
Copy 3: Basin Environmental Service Technologies, LLC

P.O. Box 301

Lovington, New Mexico 88260

# FIGURES





### **TABLES**

## TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

## SOUTHERN UNION GAS SERVICES DRIP TANK #111 HISTORICAL RELEASE SITE LEA COUNTY, NEW MEXICO NMOCD REF# 1RP-1820

				METHOD: EPA SW 846-8021B, 5030				ME	THOD: 801	5M	TOTAL	EPA: 300	
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C <sub>6</sub> -C <sub>12</sub> (mg/Kg)	DRO C <sub>12</sub> -C <sub>28</sub> (mg/Kg)	ORO C <sub>28</sub> -C <sub>35</sub> (mg/Kg)	TPH CHLORIDE	CHLORIDE (mg/Kg)
Floor	N/A	3/17/2008	N/A	-	-	-	-	-	<15.6	17.5	<15.6	17.5	33.1
North Wall	N/A	3/17/2008	N/A	-	-	-	_	-	<15.8	17.1	<15.8	17.1	-
East Wall	N/A	3/17/2008	N/A	-	-	-	-	-	<15.9	35.6	<15.9	35.6	-
South Wall	N/A	3/17/2008	N/A	-	-	-	-	-	<15.7	<15.7	<15.7	<15.7	•
West Wall	N/A	3/17/2008	N/A	-	-	-	-	_	<15.8	<15.8	<15.8	<15.8	-
SB-1 @ 10'	10'	4/29/2013	In-Situ	<0.00108	<0.00216	<0.00108	<0.00216	<0.00216	<16.3	16.3	<16.3	16.3	8.59
SB-1 @ 20'	20'	4/29/2013	In-Situ	<0.00109	<0.00218	<0.00109	<0.00218	<0.00218	<16.4	<16.4	<16.4	<16.4	57.3
SB-1 @ 30'	30'	4/29/2013	In-Situ	<0.00105	<0.00210	0.00150	0.00305	0.00455	<15.6	<15.6	<15.6	<15.6	64.7
SB-1 @ 40'	40'	4/29/2013	In-Situ	<0.00106	<0.00212	<0.00106	<0.00212	<0.00212	<15.8	<15.8	<15.8	<15.8	55.8
···········	×	······································					-						
SB-2 @ 10'	10'	4/29/2013	In-Situ	<0.00106	<0.00213	<0.00106	<0.00213	<0.00213	<16.0	48.8	<16.0	48.8	911
SB-2 @ 20'	20'	4/29/2013	In-Situ	<0.00106	<0.00212	<0.00106	<0.00212	<0.00212	<16.0	27.6	<16.0	27.6	55.4
SB-2 @ 30'	30'	4/29/2013	In-Situ	<0.00103	<0.00207	<0.00103	<0.00207	<0.00207	<15.5	18.0	<15.5	18.0	44.5
SB-2 @ 40'	40'	4/29/2013	In-Situ	<0.00104	<0.00208	<0.00104	<0.00208	<0.00208	<15.6	19.9	<15.6	19.9	48.7
					,								
SB-3 @ 10'	10'	4/29/2013	In-Situ	<0.00106	0.00384	0.0124	0.0299	0.00461	423	7,980	187	8,590	267
SB-3 @ 20'	20'	4/29/2013	In-Situ	<0.00109	<0.00217	0.00843	0.00347	0.0431	296	4,120	52.2	4,470	110
SB-3 @ 30'	30'	4/29/2013	In-Situ	<0.00106	<0.00212	0.0145	0.0346	0.0491	496	3,660	61.3	4,220	245
SB-3 @ 40'	40'	4/29/2013	In-Situ	<0.00106	<0.00211	0.00592	0.0256	0.0315	421	2,910	46.2	3,380	156
SB-3 @ 50'	50'	4/29/2013	In-Situ	<0.00120	<0.00240	0.00879	0.0319	0.0407	607	2,720	57.8	3,380	55.0
SB-3 @ 60'	60'	4/29/2013	In-Situ	<0.00112	0.00402	0.00424	0.0288	0.0371	491	2,730	56.3	3,280	145
SB-3 @ 70'	70'	4/29/2013	In-Situ	<0.00111	<0.00222	0.00185	0.00765	0.00950	95.4	1,190	36.5	1,320	184
SB-3 @ 80'	80'	4/29/2013	In-Situ	<0.00108	<0.00215	<0.00108	<0.00215	<0.00215	<16.1	183	<16.1	183	66.5
SB-3 @ 90'	90'	4/29/2013	In-Situ	<0.00107	<0.00214	<0.00107	<0.00214	<0.00214	<16.0	100	<16.0	100	80.5
SB-3 @ 100'	100'	4/29/2013	In-Situ	<0.00105	<0.00210	< 0.00107	<0.00210	<0.00210	<15.9	130	<15.9	130	47.0
	- 100		5.1.3	0.00.00	0.002.0	0.00.00	5.55276	3.33210		1	<b> </b>		
South Floor #1 @ 11'	11'	6/21/2013	Excavated	-	-	-	-	-	<50.0	2,380	449	2,829	48.0
South Wall #1	10'	6/21/2013	In-Situ	-	-		-	-	<50.0	2,630	497	3,127	32.0
TT-1 @ 19'	19'	6/21/2013	In-Situ	<0.200	0.349	2.74	1.96	5.05	157	3,750	1,100	5,007	208
6-21-13 Stockpile	N/A	6/21/2013		-	-	-	-	-	50.3	3,340	1,130	4,520	80.0
	-			-	······································								

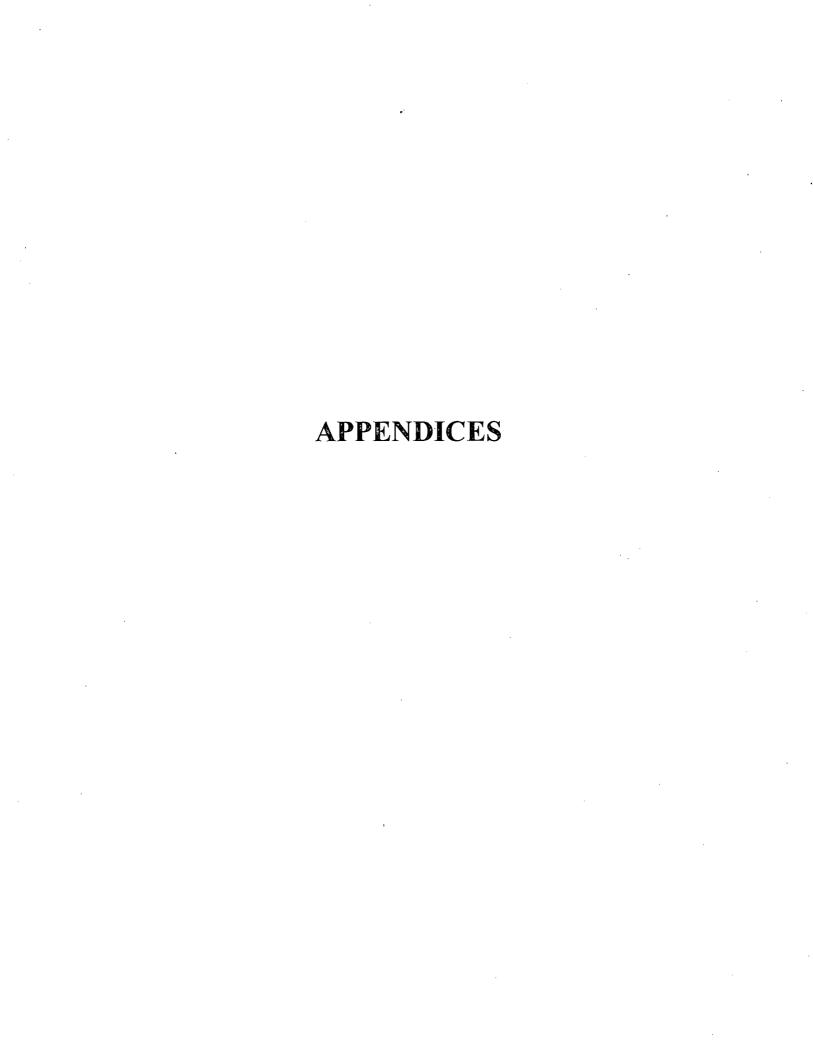
### TABLE 1

### CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

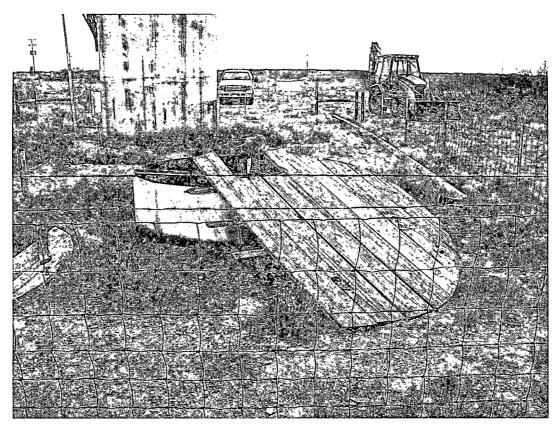
# SOUTHERN UNION GAS SERVICES DRIP TANK #111 HISTORICAL RELEASE SITE LEA COUNTY, NEW MEXICO NMOCD REF# 1RP-1820

				METHOD: EPA SW 846-8021B, 5030			METHOD: 8015M			TOTAL	EPA: 300			
SAMPLE LOCATION	I DEPTH I	SAMPLE DATE		SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C <sub>6</sub> -C <sub>12</sub> (mg/Kg)	DRO C <sub>12</sub> -C <sub>28</sub> (mg/Kg)	ORO C <sub>28</sub> -C <sub>35</sub> (mg/Kg)	TPH C <sub>6</sub> -C <sub>28</sub> (mg/Kg)	CHLORIDE (mg/Kg)
North SW #1	11'	7/1/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	240	
North SW #2	11'	7/1/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	144	
South SW #1b	11'	7/1/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	32.0	
South SW #2	11'	7/1/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	<16.0	
East SW #1	11'	7/1/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	64.0	
East SW #2	11'	7/1/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	<16.0	
Stockpile #1	N/A	7/1/2013	Stockpiled	<0.200	<0.200	<0.200	<0.600	<0.600	<50.0	2,400	604	3,004	80.0	
Stockpile #2	N/A	7/1/2013	Stockpiled		-	-	-	_	<50.0	2,380	714	3,094	80.0	
Stockpile #3	N/A	7/1/2013	Stockpiled		<0.200	<0.200	<0.600	<0.600	<50.0	2,250	657	2,907	80.0	
Stockpile #4	N/A	7/1/2013	Stockpiled	<0.200	<0.200	<0.200	<0.600	<0.600	<50.0	2,310	707	3,017	80.0	
West SW #1	11'	7/2/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	48.0	
West SW #2	11'	7/2/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	36.1	21.3	57.4	416.0	
Center Floor	12'	7/3/2013	In-Situ	<0.050	0.849	5.66	5.01	11.5	329	4,920	1,030	6,280	144	
NMOCD Standard				10				50				5,000	1,000	

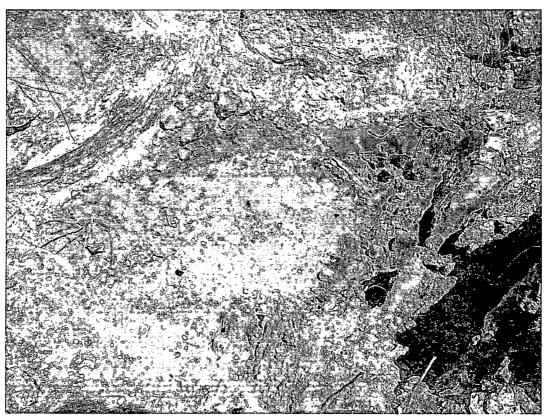
<sup>- =</sup> Not analyzed.



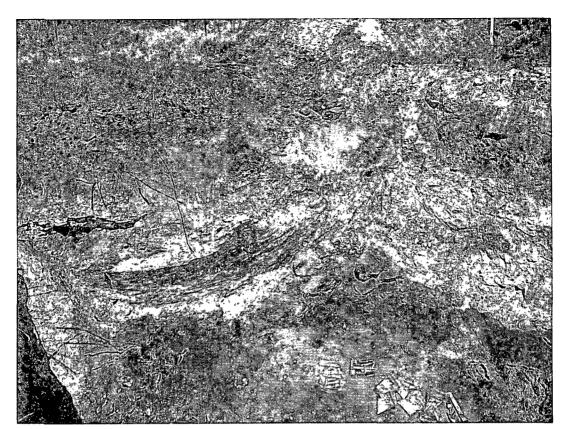
Appendix A
Photographs



Photograph of BGT at the Drip Tank #111 prior to being removed.



Photograph of the excavation resulting from the BGT removal.



Photograph of the excavation resulting from the BGT removal.



Photograph of the former BGT location at the Drip Tank #111.



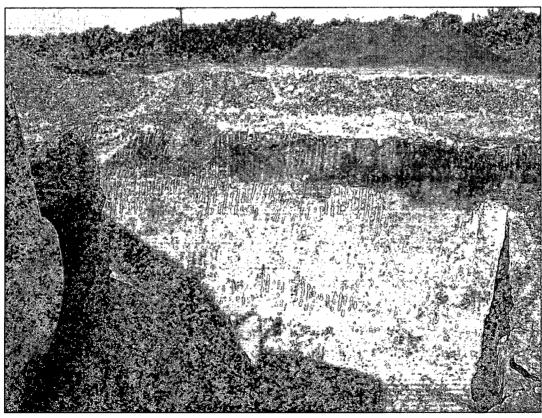
Photograph of the area inferred to be a historical "Pit" at the Drip Tank #111.



Photograph of soil boring activities at the Drip Tank #111.



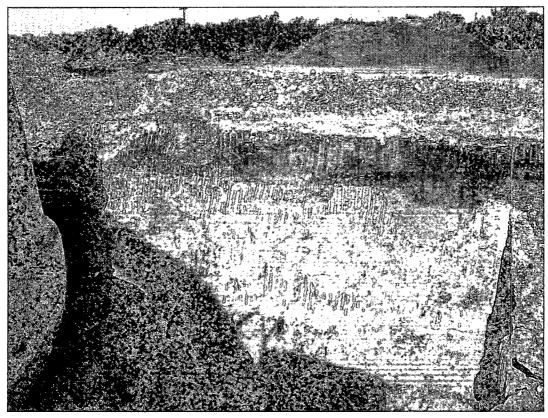
Photograph of soil boring location and excavation activities at the Drip Tank #111.



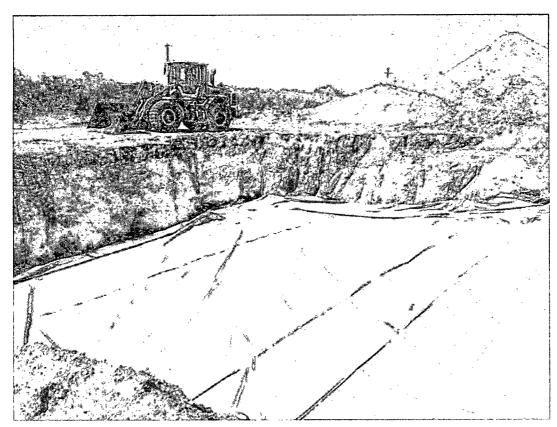
Photograph of excavation activities at the Drip Tank #111.



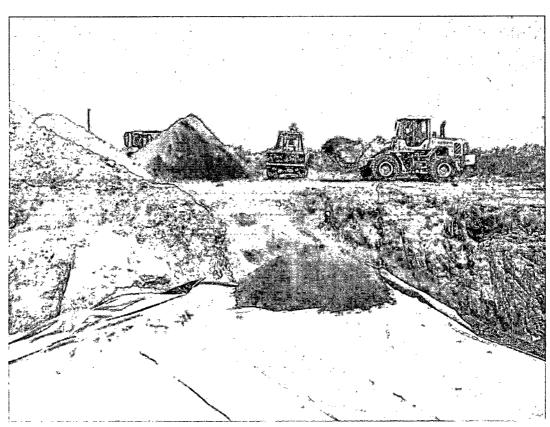
Photograph of excavation activities at the Drip Tank #111.



Photograph of excavation activities at the Drip Tank #111.



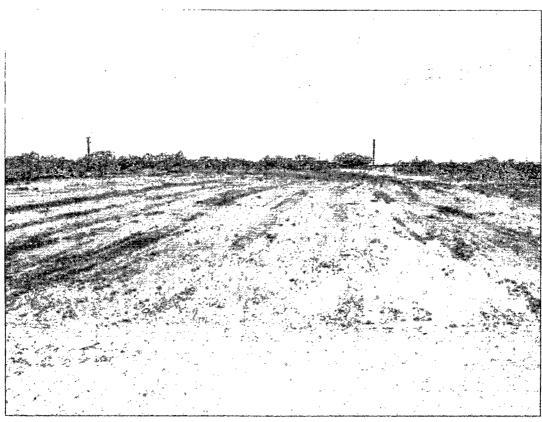
Photograph of the installation of a 20-Mil poly liner at the Drip Tank #111.



Photograph of the installation of pad sand at the Drip Tank #111.



Photograph of backfilling activities at the Drip Tank #111.



Photograph of the Drip Tank #111 upon completion of remediation activities.

# Appendix B Disposal Manifests



TICKET No. 253390

L								
EASE OPERATOR/SHIPPER/COMPANY:	116							
LEASE NAME: Drip Tan.	k # ///							
TRANSPORTER COMPANY:	21	TIME 9/9 AM/PM						
DATE: 7/16/2013 VEHICLE NO: 2		DR COMPANY ALLA FA Tayle F						
CHARGETO: 5/16	CHARGE TO: SIGNAME AND NUMBER							
	TYPE OF MATERIAL							
[ ] Production Water	[ ] Drilling Fluids	[ ] Rinsate						
[ ] Tank Bottoms	↓[	[ ] Jet Out						
: [ ] Solids	[ ] BS&W Content:	[ ] Call Out						
Description:	*							
RRC or API #		C-133#						
VOLUME OF MATERIAL [ ] BBLS	: [+] YARD/	<u> </u>						
AS A CONDITION TO SUNDANCE SERVICE TICKET, OPERATOR/SHIPPER REPRESENTS A MATERIAL EXEMPT FROM THE RESOURCE, CO TO TIME, 40 U.S.C. § 6901, et seq., THE NM HI THERETO, BY VIRTUE OF THE EXEMPTION AF ASSOCIATED WITH THE EXPLORATION, DEV GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICKET. TRANSPORTER REPRESENTS AN OPERATOR/SHIPPER TO TRANSPORTER IS N FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transposabove described location, and that it was tend materials were added to this load, and that the  DRIVER:  (SIGNATURE)  FACILITY REPRESENTATIVE: (SIGNATURE)	ND WARRANTS THAT THE WASTE INSERVATION AND RECOVERY ACT EALTH AND SAF. CODE § 361.001 e FORDED DRILLING FLUIDS, PRODELOPMENT OR PRODUCTION OF WICES, INC.'S ACCEPTANCE OF THE ND WARRANTS THAT ONLY SOWN DELIVERED BY TRANSPORTE OF THE PROPERTY OF THE PROPER	E MATERIAL SHIPPED HEREWITH IS TOF 1976, AS AMENDED FROM TIME It seq., AND REGULATIONS RELATED FUCED WATERS, AND OTHER WASTE CRUDE OIL OR NATURAL GAS OR  MATERIALS SHIPPED WITH THIS JOB THE MATERIAL DELIVERED BY ER TO SUNDANCE SERVICES, INC.'S  If by this Transporter Statement at the er. This will certify that no additional						
White - Sundance C	anary - Sundance Acct #1	Pink - Transporter						

Re-order from: TOTALLY SHARP ADVERTISING • 432-586-5401 • www.PromoSupermarket.com



TICKET No. 253424

(3/3)/394-2311		
EASE OPERATOR/SHIPPER/COMPANY:	5116	una managan ma
LEASE NAME:	k 1 111	
TRANSPORTER COMPANY:	4 11-1	TIME 11:49 AMYPM
DATE: 7-16 7/17 VEHICLE NO:	GENER	RATOR COMPANY MAN'S NAME: MAH TAY/OF
CHARGE TO: 5/16		G NAME ND NUMBER
Т	YPE OF MATERIAL	
[ ] Production Water	[ ] Drilling Fluids	[ ] Rinsate
[ ] Tank Bottoms	[ ] Contaminated Soil	[ ] Jet Out
[ ] Solids	[ ] BS&W Content:	I 1 Call Out
Description:	A CONTRACTOR OF THE PROPERTY O	and processing the state of the
RRC or API #		C-133#
VOLUME OF MATERIAL [ ] BBLS	: [/ YARD	12:: []
AS A CONDITION TO SUNDANCE SERVICE TICKET, OPERATOR/SHIPPER REPRESENTS AN MATERIAL EXEMPT FROM THE RESOURCE, CON TO TIME, 40 U.S.C. § 6901, et seq., THE NM.HEATHERETO, BY VIRTUE OF THE EXEMPTION AFF. ASSOCIATED WITH THE EXPLORATION, DEVE GEOTHERMAL ENERGY.	ID WARRANTS THAT THE WA ISERVATION AND RECOVERY A ALTH AND SAF, CODE § 361,00 ORDED DRILLING FLUIDS, PR	STE MATERIAL SHIPPED HEREWITH IS ACT OF 1976, AS AMENDED FROM TIME OF et seq., AND REGULATIONS RELATED ODUCED WATERS, AND OTHER WASTE
ALSO AS A CONDITION TO SUNDANCE SERVI TICKET: TRANSPORTER REPRESENTS AND OPERATOR/SHIPPER TO TRANSPORTER IS NO FACILITY FOR DISPOSAL.	WARRANTS THAT ONLY	Y THE MATERIAL DELIVERED BY
THIS WILL CERTIFY that the above Transport above described location, and that it was tende materials were added to this load, and that the	ered by the above described sh	ipper. This will certify that no additional
DRIVER: (SIGNATURE)  FACILITY REPRESENTATIVE: (SIGNATURE)	Kanson	
White - Sundance Ca	nary - Sundance Acct #1	Pink - Transporter
Do million from the residue of tame	- PUPOTICING INC. CO. C. C.	



TICKET No. 25346 1

	(3/3) 394-231			
EASE OPERATOR/SHIPPI	ER/COMPANY:	5/16		
LEASE NAME:	Plac Forn A	2 111		
TRANSPORTER COMPAN'	Y: Triple	M		TIME 2:37 AM/PM
DATE:	VEHICLE NO:	05 G	ENERATOR COMPANY MAN'S NAME:	YAH Taylor
CHARGE TO:	S/1G		RIG NAME AND NUMBER	
		TYPE OF MATERIAL		
[ ]	Production Water	[ ] Drilling Fluids	[ ] Ří	nsate
[ ]	Tank Bottoms	Contaminated Soi	l []Je	ť Out
[]	Solids	[ ] BS&W Content:	[] C	all Out
Description:	0/4	<u> </u>		
RRC or API #			C-133	#
VOLUME OF MATERIAL	[ ] BBLS	: [ ] YARD	12.:	[ ]
MATERIAL EXEMPT F TO TIME, 40 U.S.C. § THERETO, BY VIRTUE ASSOCIATED WITH T GEOTHERMAL ENER ALSO AS A CONDIT TICKET. TRANSPOR	ROM THE RESOURCE, C 6901, et seq., THE NM E OF THE EXEMPTION OF THE EXPLORATION, DI GY. TION TO SUNDANCE SE TER REPRESENTS OF TO TRANSPORTER IS	AND WARRANTS THAT THE CONSERVATION AND RECOVER HEALTH AND SAF. CODE § 361 AFFORDED DRILLING FLUIDS, EVELOPMENT OR PRODUCTION OF	RY ACT OF 1976, A  1.001 et seq., AND PRODUCED WATE ON OF CRUDE OIL  OF THE MATERIALS  INLY THE MATE	S-AMENDED FROM TIME REGULATIONS RELATED RS, AND OTHER WASTE OR NATURAL GAS OR SHIPPED WITH THIS JOB RIAL DELIVERED BY
THIS WILL CERTIF above described loca	Y that the above Transp tion, and that it was te I to this load, and that t	porter loaded the material repre- endered by the above described the material was delivered with	shipper. This will o	
White	(SIGNATURE); - Sundance	Canary - Sundance Acct #1	Pink = Tr	ansporter

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TICKET No. ... 253463

TASE OPERATOR/SHIPPER/COMPANY:	9/1/2				
LEASE NAME:					
TRANSPORTER COMPANY:	1. M	TIME "> " ? AM/RN			
DATE: 1 2019 VEHICLE NO:	GENE	RATOR COMPANY MAN'S NAME:			
CHARGE TO:		G NAME ND NUMBER			
TYPE OF MATERIAL					
[ ] Production Water	[ ] Drilling Fluids	[ ] Rinsate			
[ ] Tank Bottoms	Contaminated Soil	[ ] Jet Out			
[ ] Solids	[ ] BS&W Content:	[ ] Call Out			
Description:					
RRC or API #		C-133#			
VOLUME OF MATERIAL [ ] BBLS.	: []/ÝARD	<i>dd</i> : []			
AS A CONDITION TO SUNDANCE SER' TICKET, OPERATOR/SHIPPER REPRESENTS MATERIAL EXEMPT FROM THE RESOURCE, TO TIME, 40 U.S.C. § 6901, et seq., THE NN THERETO, BY VIRTUE OF THE EXEMPTION ASSOCIATED WITH THE EXPLORATION, E GEOTHERMAL ENERGY.	S AND WARRANTS THAT THE WA CONSERVATION AND RECOVERY MHEALTH AND SAF. CODE § 361.00 AFFORDED DRILLING FLUIDS, PR	ACT OF 1976, AS AMENDED FROM TIME 01 et seq., AND REGULATIONS RELATED ODUCED WATERS, AND OTHER WASTE			
ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.					
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.					
DRIVER: (SIGNATURE)  FACILITY REPRESENTATIVE: (SIGNATURE)					
White - Sundance	Canary - Sundance Acct #1	Pink - Transporter			

TICKET No. 3 253392

	4 8 8 1			
LEASE OPERATOR/SHIPPER/COMPANY:	UG			
LEASE NAME: Drip TA	11k #111			
TRANSPORTER COMPANY: Triple	<u>. M</u>	TIME / 2/ AMYPA		
DATE: 7/16/2013 VEHICLE NO: 10 GENERATOR COMPANY MAN'S NAME: 1 A+1 TAL				
CHARGE TO:		RIG NAME AND NUMBER		
•	TYPE OF MATERIAL			
[ ] Production Water	[ ] Drilling Fluids	[ ] Rinsaté		
[ ] Tank Bottoms	(V) Contaminated Soil	[ ] Jet Out		
[ ] Solids	[ ] BS&W Content:	[ ] Call Out		
Description: とし				
RRC or API #		C-133#		
NOUNCOLUMN				
VOLUME OF MATERIAL [ ] BBLS.	:			
AS A CONDITION TO SUNDANCE SERVIC TICKET, OPERATOR/SHIPPER REPRESENTS A MATERIAL EXEMPT FROM THE RESOURCE, CO	and warrants that the wasti Onservation and recovery ac	E MATERIAL SHIPPED HEREWITH IS TOF 1976, AS AMENDED FROM TIME		
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TICKET, OPERATOR/SHIPPER REPRESENTS A MATERIAL EXEMPT FROM THE RESOURCE, CO TO TIME, 40 U.S.C. § 6901, et seq., THE NM H THERETO, BY VIRTUE OF THE EXEMPTION AI ASSOCIATED WITH THE EXPLORATION, DEV GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SER TICKET. TRANSPORTER REPRESENTS AI OPERATOR/SHIPPER TO TRANSPORTER IS N FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transport above described location, and that it was ten materials were added to this load, and that th	AND WARRANTS THAT THE WASTI ONSERVATION AND RECOVERY ACT JEALTH AND SAF, CODE § 361,001 & JEFORDED DRILLING FLUIDS, PROD VELOPMENT OR PRODUCTION OF RVICES, INC.'S ACCEPTANCE OF THE JUNE AND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPORTION OF THE LOCATION	E MATERIAL SHIPPED HEREWITH IS TOF 1976, AS AMENDED FROM TIME et seq., AND REGULATIONS RELATED DUCED WATERS, AND OTHER WASTE F CRUDE OIL OR NATURAL GAS OR  MATERIALS SHIPPED WITH THIS JOB THE MATERIAL DELIVERED BY ER TO SUNDANCE SERVICES, INC.'S  d by this Transporter Statement at the oer. This will certify that no additional		

TICKET No. 253426

(3/3/354-2311					
-LEASE OPERATOR/SHIPPER/COMPANY:	(16)				
EASE NAME:	1111				
TRANSPORTER COMPANY:	14 0		MENT: ? AM/BM		
DATE: 7-11-7: 12 VEHICLE NO:	GENE	RATOR COMPANY MAN'S NAME:	At TAYLO		
CHARGE TO:		RIG NAME AND NUMBER			
TYPE OF MATERIAL					
[ ] Production Water	[ ] Drilling Fluids	[ ] Rinsate	•		
[ ] Tank Bottoms	[[c] Contaminated Soil	[ ] Jet Out	i		
[ ] Solids	[ ] BS&W Content:	[ ] Call Ou	it		
Description: C/1)					
RRC or API #		C-133#			
VOLUME OF MATERIAL [ ] BBLS,	: (½′) YARD	17:	[]		
		***			
TICKET, OPERATOR/SHIPPER REPRESENTS A MATERIAL EXEMPT FROM THE RESOURCE, CC TO TIME, 40 U.S.C. § 6901, et seq., THE NM HI THERETO, BY VIRTUE OF THE EXEMPTION AF ASSOCIATED WITH THE EXPLORATION, DEV GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SER' TICKET. TRANSPORTER REPRESENTS AN OPERATOR/SHIPPER TO TRANSPORTER IS N	ONSERVATION AND RECOVERY A EALTH AND SAF. CODE § 361.00 FORDED DRILLING FLUIDS, PR ELOPMENT OR PRODUCTION VICES, INC'S ACCEPTANCE OF T ND WARRANTS THAT ONL	ACT OF 1976, AS AM D1 et seq., AND REGU ODUCED WATERS, A OF CRUDE OIL OR HE MATERIALS SHIPI Y THE MATERIAL	ENDED FROM TIME JLATIONS RELATED AND OTHER WASTE NATURAL GAS OR PED WITH THIS JOB DELIVERED BY		
FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transpoabove described location, and that it was tend materials were added to this load, and that the	rter loaded the material represer dered by the above described sh	nted by this Transport ipper. This will certify	ter Statement at the		
FACILITY REPRESENTATIVE:  (SIGNATURE)  (SIGNATURE)	Kinde				
White - Sundance C	anary - Sundance Acct #1	Pink - Transpo	orter		
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* #	
SUNDANCE SERVICES, P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511	Inc. TICKET No. 253797
LEASE OPERATOR/SHIPPER/COMPANY: 5/1/G	
EASE NAME: DELLO LANK # 111	
TRANSPORTER COMPANY: 751378 M	TIME 2:20 AM/PM
DATE: 7-19-13 VEHICLE NO: 12	GENERATOR COMPANY 17 WATT TO GILL
CHARGETO: 5/16	RIG NAME AND NUMBER
TYPE OF M	IATERIAL
[ ] Production Water [ ] Drilli	ing Fluids [ ] Rinsate
[ ] Tank Bottoms M Cont	taminated Soil [ .] Jet Out
[ ] Solids [ ] BS&\	W Content: [ ] Call Out
Description: O 1 D	
RRC or API #	C-133#
VOLUME OF MATERIAL [ ] BBLS:	K) YARD 20 : []
TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANT MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SATHERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILL ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OF GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S A TIGKET. TRANSPORTER, REPRESENTS AND WARRANT	AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME AF CODE § 361.001 et seq., AND REGULATIONS RELATED LING FLUIDS, PRODUCED WATERS, AND OTHER WASTE IR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR  CCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TS THAT ONLY THE MATERIAL DELIVERED BY
OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERING FACILITY FOR DISPOSAL.  THIS WILL CERTIFY, that the above Transporter loaded the above described location, and that it was tendered by the all materials were added to this load, and that the material was DRIVER:  (SIGNATURE)	ED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S  material represented by this Transporter Statement at the bove described shipper. This will certify that no additional
FACILITY REPRESENTATIVE:	
White - Sundance Canary - Sunda	ance Acct #1 Pink - Transporter

#### SUNDANCE SERVICES, Inc. TICKET No. 🗳 P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: EASE NAME: TRANSPORTER COMPANY: GENERATOR COMPANY DATE: MAN'S NAME RIG NAME CHARGE TO: AND NUMBER TYPE OF MATERIAL [ ] Production Water [ ] Drilling Fluids [ ] Rinsate Contaminated Soil [ ] Tank Bottoms [ ] Jet Out [ ] BS&W Content: [ ] Solids [ ] Call Out Description: RRC or API# C-133# **VOLUME OF MATERIAL** M YARD [ ] BBLS. []. AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF, CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS-OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER:
(SIGNATURE)

FACILITY REPRESENTATIVE:
(SIGNATURE)

White - Sundance Canary - Sundance Acct #1 Pink - Transporter

SUNDANCE SERV P.O. Box 1737 Eunice, New M (575) 394-2511	Mexico 88231	TICKI	T No.	253745
LEASE OPERATOR/SHIPPER/COMPANY:	54 G	***************************************		terrena en
EASENAME: Drin Tonk #	111			
TRANSPORTER COMPANY: Triple	M		TIME	//:// SAM/PM
DATE: 7-19-13 VEHICLE'NO: 1	2	GENERATOR COMPA MAN'S NAM		t Tayler
CHARGE TO: 511 CT		RIG NAME AND NUMBER		
	TYPE OF MATERIAL			and the second s
[ ] Production Water	Drilling Fluids	t	] Rinsate	
[ ] Tank Bottoms	M. Contaminatéd :	Soil [	]. Jet Out	
[ ] Solids	[ ] BS&W Content:	. (	] Call Out	
Description:	2 <i>l</i> 0			·
RRC or API #		C	133#	
VOLUME OF MATERIAL [] BBLS	: K YARI	20	4	[]
AS A CONDITION TO SUNDANCE SERVI TICKET, OPERATOR/SHIPPER REPRESENTS				

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF, CODE § 361,001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

*	production of the second secon
DRIVER: EPNANDO	NITE T
(SIGNATURE)	
FACILITY REPRESENTATIVE:	Sho Curz
(SIGNATURE)	
White - Sundance	Canary - Sundance Acct #1 Pink - Transporter



# SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-251.1

TICKET No. 254084

LEASE OPERATOR/SHIPPER/COMPANY: 546	
LEASE NAME: DEND Tank # 11	1
TRANSPORTER COMPANY:	TIME S:SCIAM/PM
DATE: 7-22-13 VEHICLE NO: 10	GENERATOR COMPANY /) 10++1 Tailley
CHARGE TO: 546	RIG NAME AND NUMBER
TYPE OF A	/ATERIAL
[ ] Production Water [ ] Dril	ling-Fluids [ ] Rinsate
[ ] Tank Bottoms [v] Cor	ntaminated Soil [ ] Jet Out
	W Content: [ ] Call Out
Description:	, and the state of
RRC or API #	C-133#
VOLUME OF MATERIAL [ ] BBLS:	[] YARD / 2 : []
TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRAN MATERIAL EXEMPT-FROM THE RESOURCE, CONSERVATION TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND S THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRIVE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OF GEOTHERMAL ENERGY.	AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME AF, CODE § 361.001 et seq., AND REGULATIONS RELATED LLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE
ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S A TICKET. TRANSPORTER REPRESENTS AND WARRAM OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVER FACILITY FOR DISPOSAL.	1
THIS WILL CERTIFY that the above Transporter loaded the above described location, and that it was tendered by the amaterials were added to this load, and that the material was	bove described shipper. This will certify that no additional
DRIVER: (SIGNATURE)  FACILITY REPRESENTATIVE: (SIGNATURE)	5 c c
White - Sundance Canary - Sund	ance Acct #1 Pink - Transporter

## SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231

TICKET NO. 254114

(575) 394-251	1	
LEASE OPERATOR/SHIPPER/COMPANY:	SUG	and the state of t
LEASE NAME: DILLO TOLIS K	# ///	
TRANSPORTER COMPANY: Truble	M	TIME/D:40 AM/PM
DATE: 4-27-13 VEHICLE NO:		DR COMPANY MAN'S NAME: MICHAEL TO 11/11
CHARGE TO: 511G	RIG NA	AME NUMBER
	TYPE OF MATERIAL	nde m <sub>e</sub> de grande de la companya de mais en la companya de la companya de la companya de la companya de la comp
[ ] Production Water	[ ] Drilling Fluids	[ ] Rinsate
[ ] Tank Bottoms	(1) Contaminated Soil	[ ] Jet Out
[ ] Solids	[ ] BS&W Content:	[ ] Call Out
Description:	<u>/D</u>	nasaning nagyaniya ana nangyan aha mada ana a ana ina na nangyan na ina nangyan na ina nangyan na ina nangyan
RRC or API #		C-133#
VOLUME OF MATERIAL [ ] BBLS.	: )(] YARD_/2	
AS A CONDITION TO SUNDANCE SERVICKET, OPERATOR/SHIPPER REPRESENTS MATERIAL EXEMPT FROM THE RESOURCE, TO TIME, 40 U.S.C. § 6901, et seq., THE NM THERETO, BY VIRTUE OF THE EXEMPTION ASSOCIATED WITH THE EXPLORATION, DIGEOTHERMAL ENERGY.	AND WARRANTS THAT THE WASTE CONSERVATION AND RECOVERY ACT HEALTH AND SAF, CODE § 361,001 & AFFORDED DRILLING FLUIDS, PROD	E MATERIAL SHIPPED HEREWITH IS FOF 1976, AS AMENDED FROM TIME at seq., AND REGULATIONS RELATED DUCED WATERS, AND OTHER WASTE

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident,

DRIVER: **FACILITY REPRESENTATIVE:** (SIGNATURE) White - Sundance Canary - Sundance Acct #1 Pink - Transporter

#### SUNDANCE SERVICES, Inc. TICKET No. 254175 P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: **LEASE NAME:** TRANSPORTER COMPANY: AM/PM GENERATOR COMPANY DATE: VEHICLE NO: RIG NAME CHARGE TO: AND NUMBER TYPE OF MATERIAL [ ] Drilling Fluids [ ] Production Water [ ] Rinsate Contaminated Soil [ ] Tank Bottoms [ ] Jet Out [ ] Solids [ ] BS&W Content: [ ] Call Out Description: RRC or API# C-133# **VOLUME OF MATERIAL** [ ] BBLS. X 1 YARD [ ] AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: Hlenndia	Medel	
(SIGNATURE)  FACILITY REPRESENTATIVE:	1.5h C >	
(SIGNATURE)		
White - Sundance	Canary - Sundance Acct #1	Pink - Transporter



# SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231

TICKET No.2 254113

(575) 394-251,1
LEASE OPERATOR/SHIPPER/COMPANY: 546
LEASE NAME: Drin Tank # 111
TRANSPORTER COMPANY: 1510/6 11 TIME/U: 34 (AM)PM
DATE: 7-77-13 VEHICLE NO: 05 GENERATOR COMPANY MAN'S NAME: 1 TO Y/C/C
CHARGE TO: 5/16 RIG NAME AND NUMBER
TYPE OF MATERIAL
[ ] Production Water
[ ] Tank Bottoms [ ] Contaminated Soil [ ] Jet Out
[ ] Solids [ ] BS&W Content: [ ] Call Out
Description: U/D
RRC or API # C-133#
VOLUME OF MATERIAL [ ] BBLS :
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET; OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OILOR NATURAL GAS OR GEOTHERMAL ENERGY.
ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.
<b>THIS WILL CERTIFY</b> that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.
DRIVER: Marguel Curlling (SIGNATURE)
FACILITY REPRESENTATIVE:
White - Sundance Canary - Sundance Acct #1 Pink - Transporter

#### SUNDANCE SERVICES, Inc. TICKET No. 254083 P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 5116 LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAME: TRANSPORTER COMPANY GENERATOR COMPANY RIG NAME **CHARGE TO:** AND NUMBER TYPE OF MATERIAL [ ] Drilling Fluids [ ] Production Water [ ] Rinsate M Contaminated Soil [ ] Jet Out [ ] Tank Bottoms [ ] BS&W Content: [ ] Solids [ ] Call Out Description: RRC or API# C-133# )(1 YARD\_/Z **VOLUME OF MATERIAL** [ ]BBLS. []

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: ENTRAGE (	En Ma	
(SIGNATURE)	1 -1 /1	
FACILITY REPRESENTATIVE:	1. Sta Caux	
(SIGNATURE	i)	
White - Sundance	Canary - Sundance Acct #1	Pink - Transporter

# Appendix C Laboratory Analytical Reports

## **Analytical Report 299850**

for

### Southern Union Gas Services-Jal

**Project Manager: Tony Savoie** 

Drip Tank Battery # 111 BGT-014

21-MAR-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





21-MAR-08

Project Manager: Tony Savoie Southern Union Gas Services-Jal

610 Commerce Jal, NM 88252

Reference: XENCO Report No: 299850

**Drip Tank Battery # 111**Project Address: Lea, NM

#### 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 299850. 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. 299850 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

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## **Sample Cross Reference 299850**



## Southern Union Gas Services-Jal, Jal, NM

Drip Tank Battery # 111

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
Floor	S	Mar-17-08 13:35		299850-001
North Wall	S	Mar-17-08 14:00		299850-002
East Wall	S	Mar-17-08 14:30		299850-003
South Wall	S	Mar-17-08 15:00		299850-004
West Wall	S	Mar-17-08 15:30		299850-005

Project Name: Drip Tank Battery # 111

Date Received in Lab: Tue Mar-18-08 02:20 pm

Report Date: 21-MAR-08

Project Manager: Brent Barron, II

Contact:	Tony Savoie
Project Location:	Lea, NM

Since 1990

Project Id: BGT-014

	Lab Id:	299850-0	001	299850-0	02	299850-0	03	299850-0	04	299850-0	05	
Analysis Requested	Field Id:	Floor		North Wall		East Wall		South Wall		West Wa	ıll	
Analysis Requesieu	Depth:											
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	Mar-17-08	13:35	Mar-17-08 1	Mar-17-08 14:00 Mar-17-08 1		14:30	Mar-17-08 15:00		Mar-17-08 15:30		
Percent Moisture	Extracted:											 
1 01 00110 1/10/10/10	Analyzed:	Mar-18-08	Mar-18-08 17:00		7:00 Mar-18-08 17:00		Mar-18-08 17:00		Mar-18-08 17:00		17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	
Percent Moisture		3.63		5.29		5.38		4.19		4.77		 
TPH By SW8015 Mod	Extracted:	Mar-18-08 15:55		Mar-18-08 15:55		Mar-18-08 15:55		Mar-18-08 15:55		Mar-18-08 15:55		
XIII By SWOOTS WILL	Analyzed:	Mar-19-08 17:39		Mar-19-08 18:07		Mar-19-08 18:35		Mar-19-08 19:03		Mar-19-08 19:32		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
C6-C12 Gasoline Range Hydrocarbons		ND	15.6	ND	15.8	ND	15.9	ND	15.7	ND	15.8	
C12-C28 Diesel Range Hydrocarbons		17.5	15.6	17.1	15.8	35.6	15.9	ND	15.7	ND	15.8	
C28-C35 Oil Range Hydrocarbons		ND	15.6	ND	15.8	ND	15.9	ND	15.7	ND	15.8	
Total TPH		17.5		17.1		35.6		ND		ND		 
Total Chloride by EPA 9253	Extracted:											
=	Analyzed:	Mar-20-08	11:30									
	Units/RL:	mg/kg_	RL									 
Chloride		33.1	5.19									

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

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Brent Barron
Odessa Laboratory Director

# XENCO Laboratorics

## 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

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Project Name: Drip Tank Battery # 111



Work Order #: 299850

Lab Batch #: 717653

Sample: 299850-001 / SMP

Batch:

Project ID: BGT-014 Matrix: Soil

SURROGATE RECOVERY STUDY Units: mg/kg Amount True Control TPH By SW8015 Mod Found Amount Recovery Limits Flags [B] %R %R [A][D]**Analytes** 1-Chlorooctane 97.2 100 97 70-135 o-Terphenyl 70-135 53.0 50.0 106

Lab Batch #: 717653

o-Terphenyl

Sample: 299850-002 / SMP

Batch:

Matrix: Soil

Units: mg/kg SURROGATE RECOVERY STUDY True Amount Control TPH By SW8015 Mod Found Amount Recovery Limits Flags [B] %R %R [A] [D] **Analytes** 1-Chlorooctane 97.6 100 98 70-135

53.3

Lab Batch #: 717653

Sample: 299850-003 / SMP

Batch:

Matrix: Soil

107

70-135

50.0

Units: mg/kg SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]	_	
1-Chlorooctane	93.2	100	93	70-135	
o-Terphenyl	50.8	50.0	102	70-135	

Lab Batch #: 717653

Sample: 299850-004 / SMP

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY								
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes	11		[D]	, , , ,					
1-Chlorooctane	94.7	100	95	70-135					
o-Terphenyl	52.3	50.0	105	70-135					

Lab Batch #: 717653

Sample: 299850-004 S / MS

Batch:

Matrix: Soil

Units:	mg/kg	SU	SURROGATE RECOVERY STUDY								
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
	Analytes			[D]							
1-Chlorooctane		107	100	107	70-135						
o-Terphenyl		58.3	50.0	117	70-135						

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: Drip Tank Battery # 111



Work Order #: 299850

Project ID: BGT-014

Lab Batch #: 717653

Sample: 299850-004 SD / MSD

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY								
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes			[D]						
1-Chlorooctane	99.7	100	100	70-135	-				
o-Terphenyl	58.0	50.0	116	70-135					

Lab Batch #: 717653

Sample: 299850-005 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY								
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes			[D]						
1-Chlorooctane	82.5	100	83	70-135					
o-Terphenyl	43.7	50.0	87	70-135					

Lab Batch #: 717653

**Sample:** 506182-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes	11	[-]	[D]	,,,,,,				
1-Chlorooctane	103	100	103	70-135				
o-Terphenyl	56.6	50.0	113	70-135				

Lab Batch #: 717653

**Sample:** 506182-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg	SU	SURROGATE RECOVERY STUDY								
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
Analytes	11	1-1	[D]	,,,,,						
1-Chlorooctane	99.5	100	100	70-135						
o-Terphenyl	56.9	50.0	114	70-135						

Lab Batch #: 717653

**Sample:** 506182-1-BSD / BSD

Batch: 1

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY								
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes			[D]						
1-Chlorooctane	114	100	114	70-135					
o-Terphenyl	62.3	50.0	125	70-135	,				

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*\*</sup> Poor recoveries due to dilution



## **Blank Spike Recovery**



Project Name: Drip Tank Battery # 111

Work Order #: 299850

**Project ID:** 

BGT-014

Lab Batch #: 717655

Sample: 717655-1-BKS

**Date Analyzed:** 03/20/2008

Matrix: Solid

**Date Prepared:** 03/20/2008

Analyst: IRO

Reporting Units: mg/kg	Batch #: 1	BLANK/BLANK SPIKE RECOVERY STUDY							
Total Chloride by EPA 9253	Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags			
Analytes	[2]	[D]	[C]	(D)	7010				
Chloride	ND	100	86.1	86	75-125				



## **BS / BSD Recoveries**



Project Name: Drip Tank Battery # 111

Work Order #: 299850

Analyst: SHE

**Date Prepared:** 03/18/2008

Project ID: BGT-014

Date Analyzed: 03/19/2008

**Lab Batch ID:** 717653

Sample: 506182-1-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	839	84	1000	828	83	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	905	91	1000	871	87	4	70-135	35	



#### Form 3 - MS / MSD Recoveries

Project Name: Drip Tank Battery # 111

Work Order #: 299850

Project ID: BGT-014

**QC- Sample ID:** 299850-004 S

Batch #:

Matrix: Soil

Lab Batch ID: 717653 **Date Analyzed:** 03/19/2008

**Date Prepared:** 03/18/2008

SHE Analyst:

Reporting Unite: mg/kg

Reporting Units: mg/kg  MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
TPH By SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	ND	1040	845	81	1040	858	83	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1040	870	84	1040	900	87	4	70-135	35	

Lab Batch ID: 717655

QC- Sample ID: 299850-001 S

Batch #:

Matrix: Soil

Date Analyzed: 03/20/2008

**Date Prepared:** 03/20/2008

Analyst: IRO

Deporting United ma/lea

Reporting Units: mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Total Chloride by EPA 9253	Parent Sample	Spike	Spiked Sample Result	Sample	-	Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride	33.1	5190	5300	101	5190	5300	101	0	75-125	30	



## **Sample Duplicate Recovery**



**Project Name: Drip Tank Battery # 111** 

Work Order #: 299850

Lab Batch #: 717489 **Date Analyzed:** 03/18/2008

Project ID: BGT-014

**Date Prepared:** 03/18/2008

Analyst: RBA

**QC- Sample ID:** 299835-014 D

Batch #:

Matrix: Soil

Reporting Units: %	SAMPLE / SAMPLE DUPLICATE RECOVERY						
Percent Moisture  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag		
Percent Moisture	1.74	1.53	13	20			

## **Environmental Lab of Texas**

a XENCO Laboratory Company

#### CHAIN OF CUSTODY REC

12600 West I-20 East Odessa, Texas 79765

	Project Manager:	Tony Savole			PAGE / OF	: 1												P	roje
	Company Name	Southern Union Gas																	F
	Company Address:	SUGS, Jai																	Pro
	City/State/Zip:	Jal, New Mexico 88252																	
	Telephone No:	(575) 631-9376				Fax No:											F	Repo	rt Fi
	Sampler Signature:	Troy Hal	<u>~</u>		···	e-mail;		<u>toı</u>	ny.	sav	oie	@:	suç	].C	om	·			_
(lab use d	only)	<u> </u>																	E
ORDER	1#: 199E	350							Pr	eserv	atio	n & /	of	Con	taine	ers	М	atrix	ลการล
.AB # (lab use only)	FIEL	D CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	92]	HNO <sub>3</sub>	нсі	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other ( Specify)	⇒ Drinking Water	CW = Groundwater S=Soil/Soil NP=Non-Potable Specify Oth	H 41R 1 R045M
01	Floor				03/17/08	1335		1	X						$\neg$			S	Ţ×
52	North WA	<del>4</del> //			03/17/08	1400		1	X										$\overline{\lambda}$
<i>8</i> 5	East WA				03/17/08	1430		1	Χ										$\sqrt{\lambda}$
Orl	South wa	<del></del>			03/17/08	1500		1	X									$oldsymbol{ol}}}}}}}}}}}}}}}}}$	X
05	West wa	11/			03/17/08	1530		1	X		$\dashv$	$\dashv$	$\dashv$	_	$\dashv$	_		<u>L</u>	<u> </u>
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															$\Box$				
											_	_	_	_	_	_			_
Special I	nstructions:				<u></u>			نا											
1/42	sy email	copy of	125	ult	5 40	Kdutt	61	ná	$\mathcal{D}_{i}$	bs	151	in	e	nv	1.0	<u> </u>	n	_	
Relinguish	ned by:		//	me 40	S 40 Received by:  Fundari	K.De	EC	Ł	2	Date:	2	(			3.1	Da <b>19</b> .	te 08	, ,	<u> </u>
Relinguist		2000 3/18/02	J.S	me(_) 2i)	Received by:		٠.					_				Da			Tir
Relinquish		Date	Tir	me	Received by ELC		Ĺ	7.7	12	1					3	Dat J (2)	te کن	3 -	Tir Z

#1	Temperature of container/ cooler?	Yes/	No	(7.5 *5
#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)?	(es)	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	Net 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 and Cooling process had begun shortly after sampling eve	<del>_</del>

## **Analytical Report 462288**

for Southern Union Gas Services- Monahans

> Project Manager: Ben Arguijo Drip Tank #111 RP-1820

> > 08-MAY-13

Collected By: Client





#### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

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

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

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)





08-MAY-13

Project Manager: Ben Arguijo

Southern Union Gas Services- Monahans

801 South Loop 464 Monahans, TX 79756

Reference: XENCO Report No(s): 462288

Drip Tank #111

Project Address: Lea County, NM

#### Ben Arguijo:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 462288. 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.

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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

Kelsey Brooks

Project Manager

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## **Sample Cross Reference 462288**



## Southern Union Gas Services- Monahans, Monahans, TX

Drip Tank #111

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
SB-1 @ 10'	S	04-29-13 08:30		462288-001
SB-1 @ 20'	S	04-29-13 08:35		462288-002
SB-1 @ 30'	S	04-29-13 08:45		462288-003
SB-1 @ 40'	S	04-29-13 08:50		462288-004

#### CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans

Project Name: Drip Tank #111



Project ID:

RP-1820

Work Order Number(s):

462288

Report Date: 08-MAY-13 Date Received: 04/30/2013

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-912950 Inorganic Anions by EPA 300/300.1

E300

Batch 912950, Chloride recovered above QC limits in the Matrix Spike.

Samples affected are: 462288-003, -001, -002, -004.

The Laboratory Control Sample for Chloride is within laboratory Control Limits



## Certificate of Analysis Summary 462288

#### Southern Union Gas Services- Monahans, Monahans, TX

Project Name: Drip Tank #111

**Project Id:** RP-1820

Project Location: Lea County, NM

Contact: Ben Arguijo

Date Received in Lab: Tue Apr-30-13 01:35 pm

Report Date: 08-MAY-13

Project Manager: Kelsey Brooks

,	,						т	Trojectivia	mager.	Keisey Diooks	 
	Lab Id:	462288-	001	462288-0	02	462288-0	003	462288-	004		
Analysis Daguested	Field Id:	SB-1 @	10'	SB-1 @ 2	20'	SB-1 @	30'	SB-1 @	40'		
Analysis Requested	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL	,		
	Sampled:	Apr-29-13	08:30	Apr-29-13 (	08:35	Apr-29-13	08:45	Apr-29-13	08:50		
BTEX by EPA 8021B	Extracted:	May-06-13	08:00	May-06-13 (	08:00	May-06-13	08:00	May-06-13	08:00		 
	Analyzed:	May-06-13		May-06-13		May-06-13		May-06-13			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene	Omis/KL.	ND	0.00108		0.00109	ND	0.00105	ND	0.00106		
Toluene		ND	0.00216		0.00218	ND	0.00210	ND	0.00212		
Ethylbenzene		ND	0.00108	ND	0.00109	0.00152	0.00105	ND	0.00106		
m_p-Xylenes		ND	0.00216	ND	0.00218	0.00305	0.00210	ND	0.00212		
o-Xylene		ND	0.00108	ND	0.00109	ND	0.00105	ND	0.00106		
Total Xylenes		ND	0.00108	ND	0.00109	0.00305	0.00105	ND	0.00106	<del></del>	
Total BTEX		ND	0.00108	ND	0.00109	0.00457	0.00105	ND	0.00106		
Inorganic Anions by EPA 300/300.1	Extracted:	May-03-13	11:00	May-03-13	11:00	May-03-13	11:00	May-03-13	11:00		
	Analyzed:	May-03-13 18:08		May-03-13 15:36		May-03-13 16:41		May-03-13 17:03			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		8.59	4.35	57.3	10.9	64.7	10.4	55.8	4.22		
Percent Moisture	Extracted:					•					
	Analyzed:	May-02-13	14:25	May-02-13	14:25	May-02-13 14:25		May-02-13	14:25		
	Units/RL:	%	RL	%	RL	%	RL	%	RL		
Percent Moisture		8.10	1.00	8.52	1.00	4.00	1.00	5.25	1.00		
TPH By SW8015 Mod	Extracted:	May-07-13	14:00	May-07-13	14:00	May-07-13	14:00	May-07-13	14:00		
	Analyzed:	May-08-13	01:37	May-08-13	02:40	May-08-13	03:11	May-08-13	03:42		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	· 	
C6-C12 Gasoline Range Hydrocarbons	-	ND	16.3	ND	16.4	ND	15.6	ND	15.8		
C12-C28 Diesel Range Hydrocarbons	-	16.3	16.3	ND	16.4	ND	15.6	ND	15.8		
C28-C35 Oil Range Hydrocarbons		ND	16.3	ND	16.4	ND	15.6	ND	15.8		
Total TPH		16.3	16.3	ND	16.4	ND	15.6	ND	15.8		

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

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Knis Hoah



## Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantiation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- \* Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- **RL** Reporting Limit

MDL Method Detection Limit SD

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

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Project Name: Drip Tank #111

Work Orders: 462288,

**Sample:** 462288-001 / SMP

Project ID: RP-1820

Lab Batch #: 912992

Matrix: Soil Batch:

Units: mg/kg Date Analyzed: 05/06/13 09:47	SURROGATE RECOVERY STUDY							
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
1,4-Difluorobenzene	0.0348	0.0300	116	80-120				
4-Bromofluorobenzene	0.0317	0.0300	106	80-120				

Lab Batch #: 912992

Sample: 462288-002 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 05/06/13 10:03	SURROGATE RECOVERY STUDY							
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]		•			
1,4-Difluorobenzene	0.0288	0.0300	96	80-120				
4-Bromofluorobenzene	0.0302	0.0300	101	80-120				

Lab Batch #: 912992

Sample: 462288-004 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 05/06/13 14:07	SURROGATE RECOVERY STUDY							
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
1,4-Difluorobenzene	0.0277	0.0300	92	80-120				
4-Bromofluorobenzene	0.0267	0.0300	89	80-120				

Lab Batch #: 912992

Sample: 462288-003 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 05/06/13 17:55	SURROGATE RECOVERY STUDY							
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			(D)					
1,4-Difluorobenzene	0.0297	0.0300	99	80-120				
4-Bromofluorobenzene	0.0300	0.0300	100	80-120	1			

Lab Batch #: 913125

Sample: 462288-001 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 05/08/13 01:37	SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctane	108	99.8	108	70-135				
o-Terphenyl	51.3	49.9	103	70-135				

<sup>\*</sup> Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: Drip Tank #111

Work Orders: 462288,

Sample: 462288-002 / SMP

Project ID: RP-1820

Lab Batch #: 913125

Batch: 1 Matrix: Soil SUDDOCATE DECOVEDY STUDY

Units: mg/kg	Date Analyzed: 05/08/13 02:40	SURROGATE RECOVERY STUDY					
ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
	Analytes	, <i>,</i>		[D]			
1-Chlorooctane		106	100	106	70-135		
o-Terphenyl		50.3	50.0	101	70-135		

Lab Batch #: 913125

Sample: 462288-003 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 05/08/13 03:11	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]	!		
1-Chlorooctane	103	99.7	103	70-135		
o-Terphenyl	47.6	49.9	95	70-135		

Lab Batch #: 913125

Sample: 462288-004 / SMP

Matrix: Soil Batch: 1

Units: mg/kg Date Analyzed:	05/08/13 03:42	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane		106	99.5	107	70-135		
o-Terphenyl		49.6	49.8	100	70-135		

Lab Batch #: 912992

Sample: 637629-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 05/06/13 09:	:30 SU	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1,4-Difluorobenzene	0.0288	0.0300	96	80-120			
4-Bromofluorobenzene	0.0299	0.0300	100	80-120			

Lab Batch #: 913125

Sample: 637715-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 05/07/13 20:33	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	111	100	111	70-135		
o-Terphenyl	52.5	50.1	105	70-135		

<sup>\*</sup> Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: Drip Tank #111

Work Orders: 462288,

Project ID: RP-1820

Lab Batch #: 912992

Sample: 637629-1-BKS / BKS

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 05/06/13 08:58	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R {D	Control Limits %R	Flags	
Analytes			121			
1,4-Difluorobenzene	0.0345	0.0300	115	80-120		
4-Bromofluorobenzene	0.0290	0.0300	97	80-120		

Lab Batch #: 913125

**Sample:** 637715-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 05/07/13 19:33 SURROGATE RECOVERY STUDY						
TPH By SW8015	Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes				[D]		
1-Chlorooctane		126	99.9	126	70-135	
o-Terphenyl		52.3	50.0	105	70-135	

Lab Batch #: 912992

Sample: 637629-1-BSD / BSD

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 05/06/13 09:14	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0343	0.0300	114	80-120		
4-Bromofluorobenzene	0.0254	0.0300	85	80-120		

Lab Batch #: 913125

Sample: 637715-1-BSD / BSD

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 05/07/13 20:03	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
Analytes			(10)			
1-Chlorooctane	127	99.9	127	70-135		
o-Terphenyl	53.0	50.0	106	70-135		

Lab Batch #: 912992

Sample: 462288-003 S / MS

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 05/06/13 16:01	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]	•		
1,4-Difluorobenzene	0.0288	0.0300	96	80-120		
4-Bromofluorobenzene	0.0269	0.0300	90	80-120		

<sup>\*</sup> Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: Drip Tank #111

Work Orders: 462288,

Project ID: RP-1820

Lab Batch #: 913125

**Sample:** 462601-001 S / MS

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 05/08/13 07:16	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	123	99.9	123	70-135	-	
o-Terphenyl	48.8	50.0	98	70-135		

Lab Batch #: 912992

Sample: 462288-003 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 05/06/13 16:18	SURROGATE RECOVERY STUDY					
ВТЕХ	X by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluorobenzene		0.0346	0.0300	115	80-120		
4-Bromofluorobenzene		0.0284	0.0300	95	80-120		

Surrogate Recovery [D] = 100 \* A / B

<sup>\*</sup> Surrogate outside of Laboratory QC limits

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



#### **BS / BSD Recoveries**



Project Name: Drip Tank #111

Work Order #: 462288

Analyst: DYV

**Date Prepared:** 05/06/2013

Project ID: RP-1820

**Date Analyzed:** 05/06/2013

Lab Batch ID: 912992

Sample: 637629-1-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	<0.000994	0.0994	0.0979	98	0.0994	0.0885	89	10	70-130	35	
Toluene	<0.00199	0.0994	0.104	105	0.0994	0.0919	92	12	70-130	35	
Ethylbenzene	<0.000994	0.0994	0.110	111	0.0994	0.0942	95	15	71-129	35	
m_p-Xylenes	< 0.00199	0.199	0.200	101	0.199	0.171	86	16	70-135	35	
o-Xylene	<0.000994	0.0994	0.0932	94	0.0994	0.0874	88	6	71-133	35	

Analyst: AMB

**Date Prepared:** 05/03/2013

**Date Analyzed:** 05/03/2013

Lab Batch ID: 912950

Sample: 637605-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag	
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]					
Chloride	<2.00	50.0	50.0	100	50.0	51.1	102	2	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: Drip Tank #111

Work Order #: 462288

Analyst: DYV

**Date Prepared:** 05/07/2013

Project ID: RP-1820

**Date Analyzed:** 05/07/2013

Lab Batch ID: 913125

Sample: 637715-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag	
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]					
C6-C12 Gasoline Range Hydrocarbons	<15.0	999	980	98	999	977	98	0	70-135	35		
C12-C28 Diesel Range Hydrocarbons	<15.0	999	1090	109	999	1090	109	0	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

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#### Form 3 - MS Recoveries

Project Name: Drip Tank #111



Work Order #: 462288

Lab Batch #: 912950

Date Analyzed: 05/03/2013

QC- Sample ID: 462288-001 S

**Date Prepared: 05/03/2013** 

Project ID: RP-1820

Analyst: AMB

Batch #:

Matrix: Soil

Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY							
Inorganic Anions by EPA 300  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag		
, intrigues								
Chloride	8.59	109	124	106	80-120			

Lab Batch #: 912950

**Date Analyzed:** 05/03/2013

**Date Prepared:** 05/03/2013

Analyst: AMB

QC- Sample ID: 462435-001 S

Batch #:

Matrix: Soil

Reporting Units: mg/kg

MATE	RIX / MA'	TRIX SPIKE	RECOV	ERY STU	DY
Parent		Spiked Sample		Control	

Inorganic Anions by EPA 300  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	574	1000	1880	131	80-120	X

Lab Batch #: 913125

**Date Analyzed:** 05/08/2013

**Date Prepared:** 05/07/2013

Analyst: DYV

**QC-Sample ID:** 462601-001 S

Batch #:

Matrix: Soil

Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY									
TPH by SW8015 Mod  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag				
C6-C12 Gasoline Range Hydrocarbons	<15.0	999	949	95	70-135					
C12-C28 Diesel Range Hydrocarbons	<15.0	999	1090	109	70-135					

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: Drip Tank #111

**Work Order #:** 462288

Project ID: RP-1820

Lab Batch ID: 912992

**QC- Sample ID:** 462288-003 S

Batch #:

Matrix: Soil

Date Analyzed: 05/06/2013

**Date Prepared:** 05/06/2013

Analyst: DYV

Reporting Units: mg/kg

Reporting Units: mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Benzene	< 0.00105	0.105	0.0850	81	0.103	0.0882	86	4	70-130	35	
Toluene	<0.00209	0.105	0.0851	81	0.103	0.0934	91	9	70-130	35	
Ethylbenzene	0.00152	0.105	0.0888	83	0.103	0.0930	89	5	71-129	35	
m_p-Xylenes	0.00305	0.209	0.168	79	0.206	0.170	81	1	70-135	35	
o-Xylene	< 0.00105	0.105	0.0850	81	0.103	0.0849	82	0	71-133	35	



# **Sample Duplicate Recovery**



Project Name: Drip Tank #111

Work Order #: 462288

Lab Batch #: 912810

Project ID: RP-1820

Date Analyzed: 05/02/2013 14:25

**Date Prepared:** 05/02/2013

Analyst: WRU

**QC- Sample ID:** 462278-001 D

Batch #:

Matrix: Soil

Reporting Units: %	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			]
Percent Moisture	11.2	10.6	6	20	

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

# **Xenco Laboratories**

#### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765

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

	Project Manager.	Den J. Argui	ijo, soei Low	i y	<del></del>		<del></del>					- ; :					PI	olec	t Nan	1e: <u>L</u>	rip	anı	K #11	11					<u>:                                      </u>	
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: .	Company Address:	P.O. Box 30	1	<u>.</u>			<u> </u>	•							1			Proje	ct L	oc: L	ea Co	ount	y, NM	<u></u>				•		
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	City/State/Zip:	Lovington, N	W 88260						- :	::				÷	: :			·. ;	PO	#:_		Sou	ıthern	Unio	n Ga	IS			<del></del>	
	Telephone No:	(575)396-237	18			<u> </u>	Fax	No:	<u>(5</u>	75)	396-1	429					Repo	rt Foi	mat:	×	Sta	andaı	rd .	Γ	TR	RP.		□ NI	PDE	S
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## **XENCO Laboratories**



## Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 04/30/2013 01:35:00 PM

Marie Ordan #. 400000

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

Temperature Measuring device used :

<b>Nork Order #</b> : 462288	remperature	measuring action accu.
	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		2
#2 *Shipping container in good conditi	on?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping of	container/ cooler?	Yes
#5 Custody Seals intact on sample bo	ttles?	Yes
#6 *Custody Seals Signed and dated?	1	Yes
#7 *Chain of Custody present?		Yes
#8 Sample instructions complete on C	hain of Custody?	Yes
#9 Any missing/extra samples?		No
#10 Chain of Custody signed when rel	linquished/ received?	Yes
#11 Chain of Custody agrees with san	nple label(s)?	Yes
#12 Container label(s) legible and inta	ict?	Yes
#13 Sample matrix/ properties agree v	vith Chain of Custody?	Yes
#14 Samples in proper container/ bott	-	Yes
#15 Samples properly preserved?		Yes
#16 Sample container(s) intact?		Yes
#17 Sufficient sample amount for indic	cated test(s)?	Yes
#18 All samples received within hold t	ime?	Yes
#19 Subcontract of sample(s)?		Yes
#20 VOC samples have zero headspa	ice (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with		Yes
#22 >10 for all samples preserved with	n NaAsO2+NaOH, ZnAc+NaOH?	Yes
Must be completed for after-hours d	lelivery of samples prior to placing	in the refrigerator
Analyst: PH D	evice/Lot#:	
Checklist completed by: Checklist reviewed by:	Kelsey Brooks	Date: <u>05/01/2013</u>
·	Kelsey Brooks	Date: 05/01/2013

# **Analytical Report 462289**

for Southern Union Gas Services- Monahans

Project Manager: Ben Arguijo
Drip Tank #111

RP-1820
08-MAY-13

Collected By: Client





#### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

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

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

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Lakeland: Florida (E84098)

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

Page 1 of 17





08-MAY-13

Project Manager: Ben Arguijo

Southern Union Gas Services- Monahans

801 South Loop 464 Monahans, TX 79756

Reference: XENCO Report No(s): 462289

Drip Tank #111

Project Address: Lea County, NM

#### Ben Arguijo:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 462289. 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. 462289 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,
Moah

Kelsey Brooks

Project Manager

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# **Sample Cross Reference 462289**



## Southern Union Gas Services- Monahans, Monahans, TX

Drip Tank #111

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
SB-2 @ 10'	S	04-29-13 09:00		462289-001
SB-2 @ 20'	S	04-29-13 09:05		462289-002
SB-2 @ 30'	S	04-29-13 09:10		462289-003
SB-2 @ 40'	S	04-29-13 09:15		462289-004

#### CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans

Project Name: Drip Tank #111



Project ID:

RP-1820

Work Order Number(s): 462289

Report Date: 08-MAY-13 Date Received: 05/01/2013

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-912950 Inorganic Anions by EPA 300/300.1

E300

Batch 912950, Chloride recovered above QC limits in the Matrix Spike.

Samples affected are: 462289-001.

The Laboratory Control Sample for Chloride is within laboratory Control Limits



## Certificate of Analysis Summary 462289

#### Southern Union Gas Services- Monahans, Monahans, TX



Project Id: RP-1820

Contact: Ben Arguijo

Project Location: Lea County, NM

Project Name: Drip Tank #111

Date Received in Lab: Wed May-01-13 01:35 pm

Report Date: 08-MAY-13
Project Manager: Kelsey Brooks

(	,							1 toject Ma	<u>mager.</u>	Kelsey Brooks	
	Lab Id:	462289-0	001	462289-0	02	462289-0	003	462289-	004		
Analysis Requested	Field Id:	SB-2 @	10'	SB-2 @ 2	20'	SB-2 @	30'	SB-2 @	40'		
Analysis Requesieu	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	Apr-29-13	09:00	Apr-29-13 (	9:05	Apr-29-13	09:10	Apr-29-13	09:15		
BTEX by EPA 8021B	Extracted:	May-07-13	08:00	May-07-13	08:00	May-07-13	08:00	May-07-13	08:00		
,	Analyzed:	May-07-13		May-07-13		May-07-13		May-07-13			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene	Cinis/RE:	ND	0.00106	ND	0.00106	ND	0.00103	ND	0.00104		
Toluene		ND	0.00213	ND	0.00212	ND	0.00207	ND	0.00208		
Ethylbenzene		ND	0.00106	ND	0.00106	ND	0.00103	ND	0.00104		
m_p-Xylenes		ND	0.00213	ND	0.00212	ND	0.00207	ND	0.00208		•
o-Xylene		ND	0.00106	ND	0.00106	ND	0.00103	ND	0.00104		
Total Xylenes		ND	0.00106	ND	0.00106	ND	0.00103	ND	0.00104		
Total BTEX		ND	0.00106	ND	0.00106	ND	0.00103	ND	0.00104		
Inorganic Anions by EPA 300/300.1	Extracted:	May-03-13	11:00	May-03-13	11:00	May-03-13	11:00	May-03-13	11:00		
	Analyzed:	May-03-13	19:56	May-04-13	00:38	May-04-13	01:00	May-04-13	01:22		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		911	21.3	55.4	4.25	44.5	4.15	48.7	4.16		
Percent Moisture	Extracted:										
	Analyzed:	May-02-13	14:25	May-02-13	14:25	May-02-13	14:25	May-02-13	14:25		
	Units/RL:	%	RL	%	RL	%	RL	%	RL		
Percent Moisture	'	5.95	1.00	5.98	1.00	3.58	1.00	3.88	1.00		
TPH By SW8015 Mod	Extracted:	May-07-13	14:00	May-07-13	14:00	May-07-13	14:00	May-07-13	14:00		
	Analyzed:	May-08-13	05:12	May-08-13	05:42	May-08-13	06:13	May-08-13	06:45		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
C6-C12 Gasoline Range Hydrocarbons		ND	16.0	ND	16.0	ND	15.5	ND	15.6		
C12-C28 Diesel Range Hydrocarbons		48.8	16.0	27.6	16.0	18.0	15.5	19.9	15.6		
C28-C35 Oil Range Hydrocarbons		ND	16.0	ND	16.0	ND	15.5	ND	15.6		
Total TPH		48.8	16.0	27.6	16.0	18.0	15.5	19.9	15.6		

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

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Knishoah

Kelsey Brooks Project Manager



## Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantiation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- \* Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- **RL** Reporting Limit

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

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

**DL** Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Final 1.000



Project Name: Drip Tank #111

Work Orders: 462289,

Sample: 462289-001 / SMP

Batch:

Project ID: RP-1820 Matrix: Soil

Lab Batch #: 913084

SURROGATE RECOVERY STUDY

Units: mg/kg Date Analyzed: 05/07/13 13:38	30	KKOGATE K	ECOVERI	31001	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0265	0.0300	88	80-120	

Lab Batch #: 913084

Sample: 462289-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg	<b>Date Analyzed:</b> 05/07/13 13:55	SU	RROGATE R	ECOVERY	STUDY	
BTEX by	y EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
An	alytes	. ,		[D]		
1,4-Difluorobenzene		0.0263	0.0300	88	80-120	
4-Bromofluorobenzene		0.0278	0.0300	93	80-120	

Lab Batch #: 913084

Sample: 462289-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg	<b>Date Analyzed:</b> 05/07/13 14:11	SU	RROGATE R	RECOVERY	STUDY	
вте	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0262	0.0300	87	80-120	
4-Bromofluorobenzene		0.0271	0.0300	90	80-120	

Lab Batch #: 913084

**Sample:** 462289-004 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	<b>Date Analyzed:</b> 05/07/13 15:17	SU	RROGATE RE	COVERY S	STUDY	-
ВТЕХ	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0273	0.0300	91	80-120	-
4-Bromofluorobenzene		0.0260	0.0300	87	80-120	

Lab Batch #: 913125

Sample: 462289-001 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	<b>Date Analyzed:</b> 05/08/13 05:12	SU	RROGATE RI	ECOVERY :	STUDY	
	y SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4	Analytes			121		
1-Chlorooctane		113	100	113	70-135	
o-Terphenyl		54.8	50.1	109	70-135	

<sup>\*</sup> Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: Drip Tank #111

Work Orders: 462289,

Project ID: RP-1820

Lab Batch #: 913125

Sample: 462289-002 / SMP

Batch:

Matrix: Soil

Units: mg/kg	<b>Date Analyzed:</b> 05/08/13 05:42	SU	RROGATE R	ECOVERY S	STUDY	_
ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		115	100	115	70-135	
o-Terphenyl		54.5	50.0	109	70-135	

Lab Batch #: 913125

Sample: 462289-003 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 05/08	/13 06:13	SURROGATE R	RECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	106	99.9	106	70-135	
o-Terphenyl	49.1	50.0	98	70-135	

Lab Batch #: 913125

Sample: 462289-004 / SMP

Batch: Matrix: Soil

Units: mg/kg	<b>Date Analyzed:</b> 05/08/13 06:45	SURROGATE RECOVERY STUDY							
ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
	Analytes			[D]					
1-Chlorooctane		104	99.8	104	70-135				
o-Terphenyl		48.4	49.9	97	70-135				

Lab Batch #: 913084

**Sample:** 637682-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg	<b>Date Analyzed:</b> 05/07/13 13:22	SURROGATE RECOVERY STUDY							
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
An	alytes			[D]					
1,4-Difluorobenzene		0.0291	0.0300	97	80-120				
4-Bromofluorobenzene		0.0304	0.0300	101	80-120				

Lab Batch #: 913125

**Sample:** 637715-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 05/07/13 20:33	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes			121		
1-Chlorooctane	111	100	111	70-135	
o-Terphenyl	52.5	50.1	105	70-135	

<sup>\*</sup> Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: Drip Tank #111

**Work Orders:** 462289,

Project ID: RP-1820

Lab Batch #: 913084

**Sample:** 637682-1-BKS / BKS

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 05/07/13 12:49	SURROGATE RECOVERY STUDY							
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			<b>[D]</b>					
1,4-Difluorobenzene	0.0322	0.0300	107	80-120				
4-Bromofluorobenzene	0.0325	0.0300	108	80-120				

Lab Batch #: 913125

Sample: 637715-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 05/07/13 19:33	SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
1-Chlorooctane	126	99.9	126	70-135				
o-Terphenyl	52.3	50.0	105	70-135				

Lab Batch #: 913084

Sample: 637682-1-BSD / BSD

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 05/07/13 13:06	SU	SURROGATE RECOVERY STUDY							
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes			[D]	1	,				
1,4-Difluorobenzene	0.0299	0.0300	100	80-120					
4-Bromofluorobenzene	0.0335	0.0300	112	80-120					

Lab Batch #: 913125

Sample: 637715-1-BSD / BSD

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed	: 05/07/13 20:03	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Moo	1	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes				[D]		
1-Chlorooctane		127	99.9	127	70-135	
o-Terphenyl		53.0	50.0	106	70-135	

Lab Batch #: 913084

Sample: 462289-001 S / MS

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 05/07/13 14:44	SURROGATE RECOVERY STUDY							
BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1,4-Difluorobenzene	0.0339	0.0300	113	80-120				
4-Bromofluorobenzene	0.0354	0.0300	118	80-120				

<sup>\*</sup> Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: Drip Tank #111

Work Orders: 462289,

Project ID: RP-1820

Lab Batch #: 913125

**Sample:** 462601-001 S / MS

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 05/08/13 07:16	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	123	99.9	123	70-135	
o-Terphenyl	48.8	50.0	98	70-135	

Lab Batch #: 913084

Sample: 462289-001 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 05/07/13 15:00	SURROGATE RECOVERY STUDY							
BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1,4-Difluorobenzenc	0.0343	0.0300	114	80-120				
4-Bromofluorobenzene	0.0286	0.0300	95	80-120				

Surrogate Recovery [D] ≈ 100 \* A / B

<sup>\*</sup> Surrogate outside of Laboratory QC limits

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



## **BS / BSD Recoveries**



Project Name: Drip Tank #111

Work Order #: 462289

Analyst: DYV

**Date Prepared:** 05/07/2013

Project ID: RP-1820 **Date Analyzed:** 05/07/2013

Lab Batch ID: 913084

Sample: 637682-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Benzene	<0.00100	0.100	0.108	108	0.0990	0.102	103	6	70-130	35	
Toluene	<0.00200	0.100	0.110	110	0.0990	0.107	108	3	70-130	35	
Ethylbenzene	<0.00100	0.100	0.113	113	0.0990	0.114	115	1	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.207	104	0.198	0.211	107	2	70-135	35	
o-Xylene	<0.00100	0.100	0.102	102	0.0990	0.111	112	8	71-133	35	

Analyst: AMB

**Date Prepared:** 05/03/2013

**Date Analyzed:** 05/03/2013

Lab Batch ID: 912950

Sample: 637605-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride	<2.00	50.0	50.0	100	50.0	51.1	102	2	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: Drip Tank #111

Work Order #: 462289

Analyst: AMB

**Date Prepared:** 05/03/2013

Project ID: RP-1820

**Date Analyzed:** 05/03/2013

Matrix: Solid

Lab Batch ID: 912955

Sample: 637612-1-BKS

Batch #: 1

RLANK /RLANK SPIKE / RLANK SPIKE DUPLICATE RECOVERY STUDY

Units: mg/kg	DLANK SPIKE / BLANK SPIKE DUFLICATE RECOVERT STUDY										
Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride	<2.00	50.0	51.4	103	50.0	52.7	105	2	80-120	20	

Analyst: DYV

**Date Prepared:** 05/07/2013

**Date Analyzed:** 05/07/2013

Lab Batch ID: 913125

**Sample:** 637715-1-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	999	980	98	999	977	98	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	999	1090	109	999	1090	109	0	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: Drip Tank #111



Work Order #: 462289

Lab Batch #: 912950

QC-Sample ID: 462288-001 S

**Date Analyzed:** 05/03/2013

Project ID: RP-1820

**Date Prepared:** 05/03/2013

Analyst: AMB

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY									
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag				
Analytes	[A]	[B]								
Chloride	8.59	109	124	106	80-120					

Lab Batch #: 912950

**Date Analyzed:** 05/03/2013

**Date Prepared:** 05/03/2013

Analyst: AMB

**QC- Sample ID:** 462435-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY									
Inorganic Anions by EPA 300  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag				
Chloride	574	1000	1880	131	80-120	х				

Lab Batch #: 912955

**Date Analyzed:** 05/04/2013

**Date Prepared:** 05/03/2013

Analyst: AMB

QC-Sample ID: 462290-007 S

Batch #:

Matrix: Soil

Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY									
Inorganic Anions by EPA 300  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag				
Chloride	184	112	296	100	80-120					

Lab Batch #: 913125

**Date Analyzed: 05/08/2013** 

**Date Prepared:** 05/07/2013

Analyst: DYV

QC-Sample ID: 462601-001 S

Batch #:

Matrix: Soil

Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY									
TPH by SW8015 Mod  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag				
C6-C12 Gasoline Range Hydrocarbons	<15.0	999	949	95	70-135					
C12-C28 Diesel Range Hydrocarbons	<15.0	999	1090	109	70-135					

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: Drip Tank #111

Work Order #: 462289

Project ID: RP-1820

**QC- Sample ID:** 462289-001 S

Batch #:

Matrix: Soil

Lab Batch ID: 913084 **Date Analyzed:** 05/07/2013

**Date Prepared:** 05/07/2013

DYV Analyst:

Reporting Units: mg/kg

Reporting Units: mg/kg		M	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERYS	STUDY		
BTEX by EPA 8021B	Parent Sample Result	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	% K	%RPD	
Benzene	<0.00106	0.106	0.0937	88	0.107	0.0916	86	2	70-130	35	
Toluene	<0.00212	0.106	0.0962	91	0.107	0.0950	89	1	70-130	35	
Ethylbenzene	< 0.00106	0.106	0.0962	91	0.107	0.0936	87	3	71-129	35	
m_p-Xylenes	< 0.00212	0.212	0.174	82	0.213	0.177	83	2	70-135	35	
o-Xylene	< 0.00106	0.106	0.0901	85	0.107	0.0882	82	2	71-133	35	

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



# **Sample Duplicate Recovery**



Project Name: Drip Tank #111

Work Order #: 462289

Lab Batch #: 912810

Project ID: RP-1820

Date Analyzed: 05/02/2013 14:25

**Date Prepared:** 05/02/2013

Analyst: WRU

QC- Sample ID: 462278-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	11.2	10.6	6	20	

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

# **Xenco Laboratories**

#### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Project Name: Drip Tank #111 Project Manager: Ben J. Arguijo; Joel Lowry Basin Environmental Service Technologies, LLC Project #: RP-1820 Company Name Company Address: P.O. Box 301 Project Loc: Lea County, NM City/State/Zlp: Bill Southern Union Gas Lovington, NM 88260 X Standard Fax No: TRRP NPDES Telephone No: (575)396-2378 (575) 396-1429 Report Format: pm@basinenv.com Cyndi and Rose @ Energy Transfer Sampler Signature: e-mail: Analyze For: TCLP (lab use only) TOTAL ORDER #: Preservation & # of Containers BTEX 8021B/5030 or BTEX 8260 only) Beginning Depth otal #. of Container **Fotal Dissolved** Ending Depth Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> N.O.R.M. AB# H<sub>2</sub>SO<sub>4</sub> NaOH HNO3 None 호 FIELD CODE OI 4/29/2013 900 1 SB-2 @ 10' Soil SB-2 @ 20' 4/29/2013 905 X ഗര Soil X റ3 1. X SB-2 @ 30' 4/29/2013 910 Soil oч 4/29/2013 915 1 | X Χ X SB-2 @ 40' Soil Laboratory Comments: Special Instructions: VOCs Free of Headspace? Date Relinguished by: Custody seals on container(s) 4/30 ふめ 7:10 Date Time Sample Hand Delivered by Sampler/Client Rep.? DHL (FedEx) / Date Date -Kelinguished by: Temperature Upon Receipt:



## **XENCO Laboratories**



## Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 05/01/2013 01:35:00 PM

Work Order #: 462289

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)?		2
#2 *Shipping container in good condition	on?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping c	ontainer/ cooler?	Yes
#5 Custody Seals intact on sample bot	tles?	Yes
#6 *Custody Seals Signed and dated?		Yes
#7 *Chain of Custody present?		Yes
#8 Sample instructions complete on Ch	nain of Custody?	Yes
#9 Any missing/extra samples?		No
#10 Chain of Custody signed when reli	nquished/ received?	Yes
#11 Chain of Custody agrees with sam	ple label(s)?	Yes
#12 Container label(s) legible and intac	et?	Yes
#13 Sample matrix/ properties agree w	ith Chain of Custody?	Yes
#14 Samples in proper container/ bottle	e?	Yes
#15 Samples properly preserved?		Yes
#16 Sample container(s) intact?		Yes
#17 Sufficient sample amount for indica	ated test(s)?	Yes
#18 All samples received within hold tin	me?	Yes
#19 Subcontract of sample(s)?		Yes
#20 VOC samples have zero headspace	·	Yes
#21 <2 for all samples preserved with h	HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with	NaAsO2+NaOH, ZnAc+NaOH?	Yes
Must be completed for after-hours do	elivery of samples prior to placing in	the refrigerator
Allalyst.	svice/Lot#.	
Checklist completed by: Checklist reviewed by:	Mms froak Kelsey Brooks	Date: <u>05/01/2013</u>
Checklist reviewed by:	Kelsey Brooks	Date: 05/01/2013

# **Analytical Report 462290**

## for Southern Union Gas Services- Monahans

Project Manager: Ben Arguijo
Drip Tank #111

RP-1820

09-MAY-13

Collected By: Client





#### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

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

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

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Lakeland: Florida (E84098)

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





09-MAY-13

Project Manager: Ben Arguijo

Southern Union Gas Services- Monahans

801 South Loop 464 Monahans, TX 79756

Reference: XENCO Report No(s): 462290

Drip Tank #111

Project Address: Lea County, NM

#### Ben Arguijo:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 462290. 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. 462290 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.

**Kelsey Brooks** 

Project Manager

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

Certified and approved by numerous States and Agencies.

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

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



# **Sample Cross Reference 462290**



## Southern Union Gas Services- Monahans, Monahans, TX

Drip Tank #111

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
SB-3 @ 10'	S	04-29-13 10:00		462290-001
SB-3 @ 20'	S	04-29-13 10:10		462290-002
SB-3 @ 30'	S	04-29-13 10:20		462290-003
SB-3 @ 40'	S	04-29-13 10:30		462290-004
SB-3 @ 50'	S	04-29-13 10:40		462290-005
SB-3 @ 60'	S	04-29-13 10:50		462290-006
SB-3 @ 70'	S	04-29-13 11:00		462290-007
SB-3 @ 80'	S	04-29-13 11:10		462290-008
SB-3 @ 90'	S	04-29-13 11:20		462290-009
SB-3 @ 100'	S	04-29-13 11:30		462290-010

#### **CASE NARRATIVE**



Client Name: Southern Union Gas Services- Monahans

Project Name: Drip Tank #111



Project ID:

RP-1820

Work Order Number(s): 4

462290

Report Date: 09-MAY-13 Date Received: 04/30/2013

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-912950 Inorganic Anions by EPA 300/300.1

E300

Batch 912950, Chloride recovered above QC limits in the Matrix Spike.

Samples affected are: 462290-009, -006, -010, -005, -008, -003, -002, -004, -001. The Laboratory Control Sample for Chloride is within laboratory Control Limits



## Certificate of Analysis Summary 462290

#### Southern Union Gas Services- Monahans, Monahans, TX



Project Id: RP-1820

Contact: Ben Arguijo

Project Location: Lea County, NM

Project Name: Drip Tank #111

Date Received in Lab: Tue Apr-30-13 01:35 pm

Report Date: 09-MAY-13

Project Manager: Kelsey Brooks

								1 Toject	8	120.50) 5100.		<u> </u>	
	Lab Id:	462290-	001	462290-	002	462290-	003	462290-	004	462290-	005	462290-	006
Analysis Requested	Field Id:	SB-3 @	10'	SB-3 @	20'	SB-3 @	30'	SB-3 @	40'	SB-3 @	50'	SB-3 @	60'
Anulysis Requesieu	Depth:				į								
	Matrix:	SOIL	,	SOIL		SOIL		SOIL		SOII	_	SOII	
	Sampled:	Apr-29-13	10:00	Apr-29-13	Apr-29-13 10:10		Apr-29-13 10:20		10:30	Apr-29-13	10:40	Apr-29-13	10:50
BTEX by EPA 8021B	Extracted:	May-06-13	08:00	May-06-13	08:00	May-06-13	08:00	May-06-13	08:00	May-06-13	08:00	May-06-13	08:00
	Analyzed:	May-06-13	10:52	May-06-13	May-06-13 14:40		11:25	May-06-13	11:41	May-06-13	17:23	May-06-13	3 13:02
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene	'	ND	0.00106	ND	0.00109	ND	0.00106	ND	0.00106	ND	0.00120	ND	0.00112
Toluene		0.00384	0.00384 0.00213		0.00217	ND	0.00212	ND	0.00211	ND	0.00240	0.00402	0.00224
Ethylbenzene		0.0124	0.00106	0.00843	0.00109	0.0145	0.00106	0.00592	0.00106	0.00879	0.00120	0.00424	0.00112
m_p-Xylenes		0.0179	0.00213	0.0287	0.00217	0.0256	0.00212	0.0204	0.00211	0.0267	0.00240	0.0219	0.00224
o-Xylene		0.0120	0.00106	0.00597	0.00109	0.00898	0.00106	0.00519	0.00106	0.00516	0.00120	0.00691	0.00112
Total Xylenes		0.0299	0.0299 0.00106		0.00109	0.0346	0.00106	0.0256	0.00106	0.0319	0.00120	0.0288	0.00112
Total BTEX		0.0461	0.00106	0.0431 0.00109		0.0491	0.00106	0.0315	0.00106	0.0407	0.00120	0.0371	0.00112
Inorganic Anions by EPA 300/300.1	Extracted:	May-03-13	11:00	May-03-13 11:00		May-03-13	11:00	May-03-13	11:00	May-03-13	11:00	May-03-13	3 11:00
	Analyzed:	May-03-13	17:25	May-03-13 17:46		May-03-13 15:14		May-03-13	18:51	May-03-13 19:13		May-03-13 19:35	
_	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		267	21.3	110	10.8	245	21.1	156	10.5	55.0	4.80	145	4.50
Percent Moisture	Extracted:										,		
	Analyzed:	May-02-13	14:25	May-02-13	14:25	May-02-13	14:25	May-02-13 14:25		May-02-13	3 14:43	May-02-13	3 14:43
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	_ %	RL
Percent Moisture		6.30	1.00	7.80	1.00	5.30	1.00	4.63	1.00	16.7	1.00	11.2	1.00
TPH By SW8015 Mod	Extracted:	May-08-13	13:00	May-08-13	13:00	May-08-13	13:00	May-08-13 13:00		May-08-13	3 13:00	May-08-13	3 13:00
	Analyzed:	May-08-13	20:42	May-09-13	04:17	May-09-13	04:48	May-09-13 05:18		May-09-13	3 05:49	May-09-13	3 06:20
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		423	79.6	296	16.3	496	15.8	421	15.7	607	17.9	491	16.8
C12-C28 Diesel Range Hydrocarbons		7980	79.6	4120	16.3	3660	15.8	2910	15.7	2720	17.9	2730	16.8
C28-C35 Oil Range Hydrocarbons		187	. 79.6	52.2	16.3	61.3	15.8	46.2	15.7	57.8	17.9	56.3	16.8
Total TPH		8590	79.6	4470	16.3	4220	15.8	3380	15.7	3380	17.9	3280	16.8

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

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Knus Roah



## Certificate of Analysis Summary 462290

#### Southern Union Gas Services- Monahans, Monahans, TX



Project Id: RP-1820

Contact: Ben Arguijo

Project Location: Lea County, NM

Project Name: Drip Tank #111

Date Received in Lab: Tue Apr-30-13 01:35 pm

Report Date: 09-MAY-13

Project Manager: Kelsey Brooks

						-		5011	reisey brooks			
Lab Id:	462290-	007	462290-0	800	462290-0	009	462290-	010				
Field Id:	SB-3 @	70'	SB-3 @	80'	SB-3 @	90'	SB-3 @	100'				
Depth:												
Matrix:	SOIL	,	SOIL	1	SOIL	}	SOIL	.		}		
Sampled:	Apr-29-13	11:00	Apr-29-13	11:10	Apr-29-13 11:20		Apr-29-13	11:30				
Extracted:	May-06-13	1ay-06-13 08:00 N		10:00	May-03-13	10:00	May-03-13	10:00				
Analyzed:	May-06-13	1ay-06-13 14:23 N		20:12	May-03-13	20:28	May-03-13	21:01				
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
	ND	0.00111	ND	0.00108	ND	0.00107	ND	0.00105				
	ND	0.00222	ND	0.00215	ND	0.00214	ND	0.00210				
	0.00185	0.00111	ND	0.00108	ND	0.00107	ND	0.00105				
	0.00327	0.00222	ND	0.00215	ND	0.00214	ND	0.00210				
	0.00438	0.00111	ND		ND	0.00107	ND	0.00105				
	0.00765	0.00111	ND		ND	0.00107	ND	0.00105				
	0.00950	0.00111	ND	0.00108	ND	0.00107	ND	0.00105				
Extracted:	May-03-13	11:00	May-03-13 11:00		May-03-13	11:00	May-03-13	11:00				
Analyzed:	May-03-13	23:55	May-03-13 21:01		May-03-13 21:23		May-03-13	21:45				
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	_	_		
	184	4.49	66.5	4.31	80.5	4.30	47.0	4.23				
Extracted:												
Analyzed:	May-02-13	14:43	May-02-13	14:43	May-02-13 14:43		May-02-13 14:50					
Units/RL:	%	RL	%	RL	%	RL	%	RL				
	10.9	1.00	7.12	1.00	6.90	1.00	5.47	1.00				
Extracted:	May-08-13	13:00	May-08-13	13:00	May-08-13	13:00	May-08-13	13:00				
Analyzed:	May-08-13	21:12	May-08-13	15:38	May-08-13	16:08	May-08-13	16:39				
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
	95.4		ND									
	1190	16.8	183	16.1	99.7	16.0	130	15.9				
	36.5	16.8	ND	16.1	ND	16.0	ND	15.9				
	1320	16.8	183	16.1	99.7	16.0	130	15.9				
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL:  Extracted: Analyzed: Units/RL:  Extracted: Analyzed: Analyzed: Analyzed: Analyzed: Analyzed: Analyzed:	Field Id: Depth:  Matrix: SOIL Sampled: Apr-29-13  Extracted: May-06-13  May-06-13  May-06-13  May-06-13  May-06-13  May-06-13  May-06-13  Model May-06-13  Model May-08-13  May-03-13  May-03-13	Field Id: Depth: Matrix: SOIL Sampled: Apr-29-13 11:00  Extracted: May-06-13 08:00 May-06-13 14:23  Units/RL:  mg/kg RL ND 0.00111 ND 0.00222 0.00185 0.00111 0.00327 0.00222 0.00438 0.00111 0.00765 0.00111 0.00950 0.00111 Extracted: May-03-13 11:00 May-03-13 11:00 May-03-13 23:55 Units/RL: mg/kg RL 184 4.49  Extracted: Analyzed: May-02-13 14:43 Units/RL: May-08-13 13:00 Analyzed: May-08-13 13:00 Analyzed: May-08-13 21:12 Units/RL: mg/kg RL 10.9 1.00  Extracted: May-08-13 21:12 Units/RL: mg/kg RL 10.9 1.00  Extracted: May-08-13 13:00 Analyzed: May-08-13 13:00	Field Id:         SB-3 @ 70'         SB-3 @ 6           Depth:         Matrix:         SOIL         SOIL           Sampled:         Apr-29-13 11:00         Apr-29-13           Extracted:         May-06-13 08:00         May-03-13           Analyzed:         May-06-13 14:23         May-03-13           Units/RL:         mg/kg         RL         mg/kg           ND         0.00111         ND           0.00185         0.00111         ND           0.00327         0.00222         ND           0.00438         0.00111         ND           0.00950         0.00111         ND           0.00950         0.00111         ND           Extracted:         May-03-13 11:00         May-03-13           Analyzed:         May-03-13 23:55         May-03-13           Units/RL:         mg/kg         RL         mg/kg           Extracted:         Analyzed:         May-02-13 14:43         May-02-13           Units/RL:         May-08-13 13:00         May-08-13           Analyzed:         May-08-13 21:12         May-08-13           Analyzed:         May-08-13 21:12         May-08-13           Units/RL:         mg/kg         RL         mg/kg	Field Id:         SB-3 @ 70'         SB-3 @ 80'           Depth:         Matrix:         SOIL         SOIL           Sampled:         Apr-29-13 11:00         Apr-29-13 11:10           Extracted:         May-06-13 08:00         May-03-13 10:00           Analyzed:         May-06-13 14:23         May-03-13 20:12           Units/RL:         mg/kg         RL         mg/kg         RL           ND         0.00111         ND         0.00108           ND         0.00222         ND         0.00215           0.00185         0.00111         ND         0.00108           0.00438         0.00111         ND         0.00108           0.00765         0.00111         ND         0.00108           Extracted:         May-03-13 11:00         May-03-13 11:00         May-03-13 11:00           Analyzed:         May-03-13 23:55         May-03-13 21:01         mg/kg         RL           Extracted:         Analyzed:         May-02-13 14:43         May-02-13 14:43           Units/RL:         %         RL         %         RL           Line (structure)         May-08-13 13:00         May-08-13 13:00         May-08-13 15:38           Units/RL:         mg/kg         RL	Field Id:         SB-3 @ 70'         SB-3 @ 80'         SB-3 @           Matrix:         SOIL         Apr-29-13 11:10         Apr-29-13 11:100         May-03-13         10:00         May-03-13         May-03-13 <th>  SB-3 @ 70'   SB-3 @ 80'   SB-3 @ 90'    </th> <th>Lab Id:         462290-007         462290-008         462290-009         462290-009         Field Id:         SB-3 @ 70'         SB-3 @ 80'         SB-3 @ 90'         SB-3 @         <t< th=""><th>  Lab Id:</th><th>  Lab Id:</th><th>  Lab Id:</th><th>  Lab Id:</th></t<></th>	SB-3 @ 70'   SB-3 @ 80'   SB-3 @ 90'	Lab Id:         462290-007         462290-008         462290-009         462290-009         Field Id:         SB-3 @ 70'         SB-3 @ 80'         SB-3 @ 90'         SB-3 @         SB-3 @ <t< th=""><th>  Lab Id:</th><th>  Lab Id:</th><th>  Lab Id:</th><th>  Lab Id:</th></t<>	Lab Id:	Lab Id:	Lab Id:	Lab Id:

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## Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantiation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- \* Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- **RL** Reporting Limit

MDL Method Detection Limit

**SDL** Sample Detection Limit

LOD Limit of Detection

PQL Practical Quantitation Limit

**MQL** Method Quantitation Limit

LOO 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

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Project Name: Drip Tank #111

Work Orders: 462290,

Project ID: RP-1820

Lab Batch #: 912898

Sample: 462290-008 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 05/03/13 20:12	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0259	0.0300	86	80-120		
4-Bromofluorobenzene	0.0310	0.0300	103	80-120		

Lab Batch #: 912898

Sample: 462290-009 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	<b>Date Analyzed:</b> 05/03/13 20:28	SURROGATE RECOVERY STUDY					
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
	Analytes			[D]			
1,4-Difluorobenzene		0.0269	0.0300	90	80-120		
4-Bromofluorobenzene		0.0261	0.0300	87	80-120		

Lab Batch #: 912898

Sample: 462290-010 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 05/03/13 21:01	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0269	0.0300	90	80-120		
4-Bromofluorobenzene	0.0247	0.0300	82	80-120		

Lab Batch #: 912992

Sample: 462290-001 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed	1: 05/06/13 10:52	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021E	В	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes				[D]			
1,4-Difluorobenzene		0.0244	0.0300	81	80-120		
4-Bromofluorobenzene		0.0355	0.0300	118	80-120		

Lab Batch #: 912992

**Sample:** 462290-003 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 05/06/13 11:25	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluorobenzene	0.0245	0.0300	82	80-120		
4-Bromofluorobenzene	0.0353	0.0300	118	80-120		

<sup>\*</sup> Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: Drip Tank #111

Work Orders: 462290,

Sample: 462290-004 / SMP

Project ID: RP-1820

Lab Batch #: 912992

Matrix: Soil Batch: 1

Units: mg/kg	Date Analyzed: 05/06/13 11:41	SURROGATE RECOVERY STUDY					
ВТЕ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
	Analytes			[D]			
1,4-Difluorobenzene		0.0243	0.0300	81	80-120		
4-Bromofluorobenzene		0.0348	0.0300	116	80-120		

Lab Batch #: 912992

Sample: 462290-006 / SMP

Batch: 1

Matrix: Soil

SURROGATE RECOVERY STUDY

Units: mg/kg Date Analyzed: 05/06/13 13:02	SCRROGATE RECOVERT STODI					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0287	0.0300	96	80-120		
4-Bromofluorobenzene	0.0340	0.0300	113	80-120		

Lab Batch #: 912992

Sample: 462290-007 / SMP

Matrix: Soil Batch:

Units: mg/kg Date Analyzed: 05/06/13 14:23	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0264	0.0300	88	80-120		
4-Bromofluorobenzene	0.0273	0.0300	91	80-120		

Lab Batch #: 912992

Sample: 462290-002 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 05/06/13 14	SU	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1,4-Difluorobenzene	0.0254	0.0300	85	80-120	-		
4-Bromofluorobenzene	0.0300	0.0300	100	80-120			

Lab Batch #: 912992

Sample: 462290-005 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 05/06/13 17:23	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0261	0.0300	87	80-120		
4-Bromofluorobenzene	0.0351	0.0300	117	80-120		

<sup>\*</sup> Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: Drip Tank #111

Work Orders: 462290,

Sample: 462290-008 / SMP

Project ID: RP-1820

Lab Batch #: 913249

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 05/08/13 15:38 SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	110	99.6	110	70-135	
o-Terphenyl	53.2	49.8	107	70-135	

Lab Batch #: 913249

Sample: 462290-009 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	<b>Date Analyzed:</b> 05/08/13 16:08	SURROGATE RECOVERY STUDY					
ТРН В	y SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
	Analytes		''	[D]			
1-Chlorooctane		111	99.6	111	70-135		
o-Terphenyl		53.0	49.8	106	70-135		

Lab Batch #: 913249

Sample: 462290-010 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 05/08/13 16:39	RROGATE RI	ECOVERY	STUDY		
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes		'-'	[D]		
1-Chlorooctane	106	100	106	70-135	
o-Terphenyl	49.8	50.0	100	70-135	

Lab Batch #: 913249

Sample: 462290-001 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 05/08/13 20:42	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	117	99.5	118	70-135		
o-Terphenyl	56.1	49.8	113	70-135		

Lab Batch #: 913249

Sample: 462290-007 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 05/08/13 21:12	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes		',	[D]		
1-Chlorooctane	114	100	114	70-135	
o-Terphenyl	56.2	50.0	112	70-135	

<sup>\*</sup> Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: Drip Tank #111

Work Orders: 462290,

Project ID: RP-1820

Lab Batch #: 913249

Sample: 462290-002 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 05/09/13 04:17	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	54.8	50.0	110	70-135	

Lab Batch #: 913249

Sample: 462290-003 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 05/09/13 04:48	SU	RROGATE R	RECOVERY	STUDY -	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes		' '	[D]	1	
1-Chlorooctane	116	99.8	116	70-135	
o-Terphenyl	52.9	49.9	106	70-135	

Lab Batch #: 913249

Sample: 462290-004 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 05/09/13 05:18	SU	RROGATE R	ECOVERY :	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	118	99.9	118	70-135	
o-Terphenyl	54.2	50.0	108	70-135	

Lab Batch #: 913249

**Sample:** 462290-005 / SMP

Batch: 1

Matrix: Soil

Units: mg	g/kg <b>Date Analyzed:</b> 05/09/13 05:49	SURROGATE RECOVERY STUDY					
	TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	Analytes	119	99.7	119	70-135	1	
o-Terphenyl		54.4	49.9	109	70-135		

Lab Batch #: 913249

Sample: 462290-006 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 05/09/13 06:20	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	115	99.6	115	70-135	
o-Terphenyl	54.5	49.8	109	70-135	

<sup>\*</sup> Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: Drip Tank #111

Work Orders: 462290,

Sample: 637565-1-BLK / BLK

Project ID: RP-1820

Lab Batch #: 912898

Matrix: Solid Batch: 1

Units: mg/kg	<b>Date Analyzed:</b> 05/03/13 17:45	SURROGATE RECOVERY STUDY					
втех	by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
	Analytes			[D]			
1,4-Difluorobenzene		0.0286	0.0300	95	80-120		
4-Bromofluorobenzene		0.0265	0.0300	88	80-120		

Lab Batch #: 912992

**Sample:** 637629-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 05/06/13 09:30 SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes	, ,		[D]		
1,4-Difluorobenzene	0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

Lab Batch #: 913249

Sample: 637796-1-BLK / BLK

Matrix: Solid Batch: 1

Units: mg/kg	<b>Date Analyzed:</b> 05/08/13 15:08	SU	RROGATE R	ECOVERY	STUDY	
ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		108	99.7	108	70-135	
o-Terphenyl		50.9	49.9	102	70-135	

Lab Batch #: 912898

Sample: 637565-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 05/03/13 16:23	RROGATE R	ECOVERY:	STUDY		
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]	į	
1,4-Difluorobenzene	0.0355	0.0300	118	80-120	
4-Bromofluorobenzene	0.0311	0.0300	104	80-120	

Lab Batch #: 912992

Sample: 637629-1-BKS / BKS

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 05/06/13 08:58	SU	RROGATE RI	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		1
1,4-Difluorobenzene	0.0345	0.0300	115	80-120	
4-Bromofluorobenzene	0.0290	0.0300	97	80-120	

<sup>\*</sup> Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: Drip Tank #111

Work Orders: 462290,

**Sample:** 637796-1-BKS / BKS

Project ID: RP-1820

Lab Batch #: 913249

Date Analyzed:	05/08/13	14:06

Matrix: Solid Batch:

Units: mg/kg Date Analyz	zed: 05/08/13 14:06	SURROGATE RECOVERY STUDY							
TPH By SW8015 M	lod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes		. ,		[D]					
1-Chlorooctane		120	99.6	120	70-135				
o-Terphenyl		50.5	49.8	101	70-135				

Lab Batch #: 912898

Sample: 637565-1-BSD / BSD

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 05/03/13 16:40	1B Amount True Control				
BTEX by EPA 8021B	Found	Amount		Limits	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

Lab Batch #: 912992

Sample: 637629-1-BSD / BSD

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 05/06/13 09:14	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1,4-Difluorobenzene	0.0343	0.0300	114	80-120			
4-Bromofluorobenzene	0.0254	0.0300	85	80-120			

Lab Batch #: 913249

**Sample:** 637796-1-BSD / BSD

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 05/08/13 14:37	SU	RROGATE RI	OGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
1-Chlorooctane	120	100	120	70-135				
o-Terphenyl	48.0	50.0	96	70-135				

Lab Batch #: 912898

Sample: 462435-001 S / MS

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 05/03/13 18:18	SU	RROGATE RI	ECOVERY S	STUDY	
BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Exhaly tes					
1,4-Difluorobenzene	0.0338	0.0300	113	80-120	
4-Bromofluorobenzene	0.0326	0.0300	109	80-120	

<sup>\*</sup> Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: Drip Tank #111

Work Orders: 462290,

Project ID: RP-1820

Lab Batch #: 912992

Sample: 462288-003 S / MS

Matrix: Soil Batch: 1

Units: mg/kg Date Analyzed: 05/06/13 16:0	1 St	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
1,4-Difluorobenzene	0.0288	0.0300	96	80-120				
4-Bromofluorobenzene	0.0269	0.0300	90	80-120				

Lab Batch #: 913249

**Sample:** 462447-005 S / MS

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 05/09/13 00:15	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	118	99.7	118	70-135	
o-Terphenyl	45.5	49.9	91	70-135	

Lab Batch #: 912992

**Sample:** 462288-003 SD / MSD

Batch:

Matrix: Soil

Units: mg/kg	<b>Date Analyzed:</b> 05/06/13 16:18	SU	RROGATE R	ECOVERY	STUDY	
вте	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0346	0.0300	115	80-120	
4-Bromofluorobenzene		0.0284	0.0300	95	80-120	

Lab Batch #: 913249

**Sample:** 462447-005 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg Date Analy	zed: 05/09/13 00:46	SURROGATE RECOVERY STUDY							
TPH By SW8015 M Analytes	Aod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctane		125	99.7	125	70-135				
o-Terphenyl		49.3	49.9	99	70-135				

Surrogate Recovery [D] = 100 \* A / B

<sup>\*</sup> Surrogate outside of Laboratory QC limits

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



## **BS / BSD Recoveries**



Project Name: Drip Tank #111

Work Order #: 462290

Analyst: DYV

**Date Prepared:** 05/03/2013

Project ID: RP-1820

**Date Analyzed:** 05/03/2013

Lab Batch ID: 912898

**Sample:** 637565-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY									
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result [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
Analytes		[10]	[~]	[D]	[12]	result [1]	[6]				
Benzene	<0.000989	0.0989	0.0966	98	0.0994	0.0825	83	16	70-130	35	
Toluene	< 0.00198	0.0989	0.0919	93	0.0994	0.0830	84	10	70-130	35	
Ethylbenzene	< 0.000989	0.0989	0.0951	96	0.0994	0.0884	89	7	71-129	35	
m_p-Xylenes	< 0.00198	0.198	0.183	92	0.199	0.161	81	13	70-135	35	
o-Xylene	< 0.000989	0.0989	0.0890	90	0.0994	0.0814	82	9	71-133	35	

Analyst: DYV

**Date Prepared:** 05/06/2013

**Date Analyzed:** 05/06/2013

**Lab Batch ID:** 912992

Sample: 637629-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag	
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]					
Benzene	< 0.000994	0.0994	0.0979	98	0.0994	0.0885	89	10	70-130	35		
Toluene	< 0.00199	0.0994	0.104	105	0.0994	0.0919	92	12	70-130	35		
Ethylbenzene	<0.000994	0.0994	0.110	111	0.0994	0.0942	95	15	71-129	35		
m_p-Xylenes	< 0.00199	0.199	0.200	101	0.199	0.171	86	16	70-135	35		
o-Xylene	< 0.000994	0.0994	0.0932	94	0.0994	0.0874	88	6	71-133	35		

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



## **BS / BSD Recoveries**



Project Name: Drip Tank #111

Work Order #: 462290

Analyst: AMB

Lab Batch ID: 912950

Project ID: RP-1820

**Date Prepared:** 05/03/2013

**Date Analyzed:** 05/03/2013

Matrix: Solid Batch #: 1

Units: mg/kg	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY
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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	50.0	100	50.0	51.1	102	2	80-120	20	

Analyst: AMB

**Date Prepared:** 05/03/2013

**Date Analyzed:** 05/03/2013

Lab Batch ID: 912955

Sample: 637612-1-BKS

Sample: 637605-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg		BLAN	K/BLANK S	SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag			
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]							
Chloride	<2.00	50.0	51.4	103	50.0	52.7	105		80-120	20				

Analyst: DYV

**Date Prepared:** 05/08/2013

**Date Analyzed:** 05/08/2013

**Lab Batch ID: 913249** 

Sample: 637796-1-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	<14.9	996	950	95	1000	948	95	0	70-135	35		
C12-C28 Diesel Range Hydrocarbons	<14.9	996	1070	107	1000	1080	108	1	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: Drip Tank #111



Work Order #: 462290

Lab Batch #: 912898

**Date Analyzed:** 05/03/2013

Project ID: RP-1820

**Date Prepared: 05/03/2013** 

Analyst: DYV Matrix: Soil

**OC- Sample ID:** 462435-001 S

Batch #: 1

Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY												
BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag							
Analytes	[A]	[B]											
Benzene	< 0.00104	0.104	0.104	100	70-130	-							
Toluene	< 0.00208	0.104	0.0948	91	70-130								
Ethylbenzene	0.00253	0.104	0.0913	85	71-129								
m_p-Xylenes	0.00979	0.208	0.167	76	70-135								
o-Xylene	0.00616	0.104	0.0954	86	71-133								

Lab Batch #: 912950

**Date Analyzed:** 05/03/2013

**Date Prepared:** 05/03/2013

Analyst: AMB

QC-Sample ID: 462288-001 S

Batch #:

Matrix: Soil

Reporting Units: mg/kg	MATI	MATRIX / MATRIX SPIKE RECOVERY STUDY											
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag							
Analytes	1.21	(1)											
Chloride	8.59	109	124	106	80-120								

Lab Batch #: 912950

**Date Analyzed:** 05/03/2013

**Date Prepared:** 05/03/2013

Analyst: AMB

QC- Sample ID: 462435-001 S

Batch #:

Matrix: Soil

Reporting Units: mg/kg MATRIX SPIKE RECOVERY STU						
Inorganic Anions by EPA 300  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	574	1000	1880	131	80-120	X

Lab Batch #: 912955

**Date Analyzed:** 05/04/2013

**Date Prepared:** 05/03/2013

Analyst: AMB

QC-Sample ID: 462290-007 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY										
Inorganic Anions by EPA 300  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag					
Chloride	184	112	296	100	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: Drip Tank #111

Work Order #: 462290

Lab Batch ID: 912992

**QC- Sample ID:** 462288-003 S

Batch #:

1 Matrix: Soil

Project ID: RP-1820

**Date Analyzed: 05/06/2013** 

**Date Prepared:** 05/06/2013

Analyst

Reporting Units: mg/kg

201	13			Anaiysi	ו: מ	v
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Reporting Units: mg/kg		N	1ATRIX SPIK	E / MAT	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY													
BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag							
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD								
Benzene	< 0.00105	0.105	0.0850	81	0.103	0.0882	86	4	70-130	35								
Toluene	< 0.00209	0.105	0.0851	81	0.103	0.0934	91	9	70-130	35								
Ethylbenzene	0.00152	0.105	0.0888	83	0.103	0.0930	89	5	71-129	35								
m_p-Xylenes	0.00305	0.209	0.168	79	0.206	0.170	81	1	70-135	35								
o-Xylene	< 0.00105	0.105	0.0850	81	0.103	0.0849	82	0	71-133	35								

Lab Batch ID: 913249

**Date Analyzed:** 05/09/2013

**QC- Sample ID:** 462447-005 S

Batch #:

Matrix: Soil

**Date Prepared:** 05/08/2013

DYV Analyst:

Donostino Ilmito de modica

Reporting Units: mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY														
TPH By SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag				
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	<b>%</b>	%R	%RPD					
C6-C12 Gasoline Range Hydrocarbons	<15.6	1040	989	95	1040	1000	96	i	70-135	35					
C12-C28 Diesel Range Hydrocarbons	<15.6	1040	1150	111	1040	1180	113	3	70-135	35					

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



#### **Sample Duplicate Recovery**



**Project Name: Drip Tank #111** 

Work Order #: 462290

Lab Batch #: 912810

Project ID: RP-1820

Date Analyzed: 05/02/2013 14:25

**Date Prepared:** 05/02/2013

Analyst: WRU

QC-Sample ID: 462278-001 D

Batch #:

Matrix: Soil

Reporting Units: %

Reporting Units:	<b>%</b>	SAMPLE /	SAMPLE / SAMPLE DUPLICATE RECOVERY												
	Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag									
	Analyte		[~]												
Percent Moisture		11.2	10.6	6	20										

Lab Batch #: 912818

**Date Analyzed:** 05/02/2013 14:50

**Date Prepared:** 05/02/2013

Analyst: WRU

**QC- Sample ID:** 462290-010 D

Batch #:

Matrix: Soil

Reporting Units: %

Percent Moisture

s: %	SAMPLE /	SAMPLE / SAMPLE DUPLICATE RECOVERY										
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag							
Analyte		[B]										
	5.47	5.90	8	20								

### **Xenco Laboratories**

#### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUES

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

	Project Manager:	Ben J. Arguijo; Joel L	OM (17)		# 11 1 1 1 1 1 1 1	: ::	111111				::				roject	Nam	o D	rin T	ank #	111	111					
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: ::	City/State/Zip:	Lovington, NM 88260	<u> </u>						• • • • •	- : :			1			РО	#:	Bill	Southe	m Uni	on G	as	. :: 			<u>.                                      </u>
: . :: :	Telephone No:	(575)396-2378	:: :			Fax No:	<u>.</u>	: (575)	396-	1429	<u>:::</u>		**	_ Repo	rt For	mat:	X	Star	ndard		_ TF	RP		☐ NP	DES.	7.2 <b>3</b> -
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AB # (lab use only)		LD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	<u>ĕ</u>	Total #. of Containers	ő		H <sub>2</sub> SO <sub>4</sub>	်	None Other (Specify)	DW = Drinking Water SL = Sludg GW = Groundwater S = Soil/Soil NP = Non-Dotable Snecky Othe	PH: 418.1 <b>8015M</b> 8015	g :	Lations (Ca, Mg, Na, K) Anions (Cl, SO4, Alkalinity)		Aetals: As Ag Ba Cd Cr Pb Hg Se olatiles	Semivolatiles	BIEX 8021B/5030 or BIEX 8260 RCI	N.O.R.M.	CHLORIDES	Total Dissolved Solids	24,	Standard TAT 4 DAY
		-3 @ 10'		+ "	4/29/2013	1000	1-1		x	$\dagger \dagger$			7.	Soil	x	F 10	7 4	S	2 2		X	+	x	+	Ħ	x
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	SB-	-3 @ 90'			4/29/2013	1120		1 2	<b>(</b>					Soll	х					] ;	X		Х		П	Х
	SB-	3 @ 100'	:		4/29/2013	1130		1 2	<u> </u>					Soil	х	: .					X		х		П	х
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Page 20 of 21



#### **XENCO Laboratories**



#### Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 04/30/2013 01:35:00 PM

Work Order #: 462290

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

Temperature Measuring device used :

Vork Order #: 462290		
	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		2
#2 *Shipping container in good condit	ion?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping	container/ cooler?	Yes
#5 Custody Seals intact on sample bo	ottles?	Yes
#6 *Custody Seals Signed and dated?	•	Yes
#7 *Chain of Custody present?		Yes
#8 Sample instructions complete on C	Chain of Custody?	Yes
#9 Any missing/extra samples?		No
#10 Chain of Custody signed when re	linquished/ received?	Yes
#11 Chain of Custody agrees with sar	nple label(s)?	Yes
#12 Container label(s) legible and inta	act?	Yes
#13 Sample matrix/ properties agree	with Chain of Custody?	Yes
#14 Samples in proper container/ bott	le?	Yes
#15 Samples properly preserved?		Yes
#16 Sample container(s) intact?		Yes
#17 Sufficient sample amount for indi-	cated test(s)?	Yes
#18 All samples received within hold t	ime?	Yes
#19 Subcontract of sample(s)?		Yes
#20 VOC samples have zero headspa	ace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with	HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved wit	h NaAsO2+NaOH, ZnAc+NaOH?	Yes
Must be completed for after-hours of Analyst:	delivery of samples prior to placing	in the refrigerator
Checklist completed by: Checklist reviewed by:	Kelsey Brooks	Date: 05/01/2013
Checklist reviewed by:	Krung Moah Kelsey Brooks	Date: 05/01/2013



July 05, 2013

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: DRIP TANK #111

Enclosed are the results of analyses for samples received by the laboratory on 06/24/13 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey & Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 (575) 396-1429

Fax To:

Received:

06/24/2013

Reported:

07/05/2013

Project Name:

DRIP TANK #111

Project Number:

NONE GIVEN

Project Location:

LEA COUNTY

Sampling Date:

06/21/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: SOUTH FLOOR #1 @ 11' (H301446-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/24/2013	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/25/2013	ND	203	101	200	3.07	
DRO >C10-C28	2380	50.0	06/25/2013	ND	208	104	200	5.24	
EXT DRO >C28-C35	449	50.0	06/25/2013	ND					
Surrogate: 1-Chlorooctane	100	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	138	% 63.6-15	i4						

#### Sample ID: SOUTH WALL #1 (H301446-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/24/2013	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/25/2013	ND	203	101	200	3.07	
DRO >C10-C28	2630	50.0	06/25/2013	ND	208	104	200	5.24	
EXT DRO >C28-C35	497	50.0	06/25/2013	ND					
Surrogate: 1-Chlorooctane	98.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	142	% 63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

06/24/2013

Reported:

07/05/2013

Project Name:

DRIP TANK #111

Project Number:

NONE GIVEN

Project Location:

LEA COUNTY

Sampling Date:

06/21/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: TT-1 @ 19' (H301446-03)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	07/03/2013	ND	2.14	107	2.00	2.42	
Toluene*	0.349	0.200	07/03/2013	ND	2.26	113	2.00	2.24	
Ethylbenzene*	2.74	0.200	07/03/2013	ND	2.45	123	2.00	2.84	
Total Xylenes*	1.96	0.600	07/03/2013	ND	7.44	124	6.00	2.43	
Total BTEX	5.05	1.20	07/03/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	177 :	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/24/2013	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	157	50.0	06/25/2013	ND	203	101	200	3.07	
DRO >C10-C28	3750	50.0	06/25/2013	ND	208	104	200	5.24	
EXT DRO >C28-C35	1100	50.0	06/25/2013	ND					
Surrogate: 1-Chlorooctane	101	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	170	% 63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any ofter cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keere



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To:

(575) 396-1429

Received:

06/24/2013

Reported:

07/05/2013

Project Name:

DRIP TANK #111

Project Number: Project Location:

NONE GIVEN LEA COUNTY Sampling Date:

06/21/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: 6-21-13 STOCKPILE (H301446-04)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/24/2013	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS			÷		S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	50.3	50.0	06/25/2013	ND	203	101	200	3.07	
DRO >C10-C28	3340	50.0	06/25/2013	ND	208	104	200	5.24	
EXT DRO >C28-C35	1130	50.0	06/25/2013	ND					
Surrogate: 1-Chlorooctane	101	% 65.2-1 <i>4</i>	10						
Surrogate: 1-Chlorooctadecane	165	% 63.6-15	i <i>4</i>						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Keene



#### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine

# ARDINAL LABORATORIES

Delivered By: (Circle One)

### **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

101 East Marland, Hobbs, NM 88240

	(575) 393-2326 FAX	( (575) 393-2476	5																					
Company Name:	Basin Environmental	Service Technolog	ies, l	TC								BI	LL TO						ANAL	YSIS RE	QUES'	Г		
Project Manager:	Joel Lowry					_		_		P. O.	#:													
Address: P.O.	. Box 301									Com	npai	ny:	Southe	m Union									l	
City: Lovingtor	1	State: NM	Zip	: 8	826	0		-		Attn	:		Cyndi Insk	eep								1		
Phone #: (575	)396-2378	Fax #: (575)396	-142	9						Addi	res	s:		and Laure - when to the										
Project #:	•	Project Owner:							-	City									~				l	
Project Name:	Drip Tank #111	·							· 1	State		-	Zip:			ξ	<u>8</u>	Ě	//				I	
Project Location:	Lea Co									Pho		 ⊭•		نيسب سييه،	ride	015	802	in	7/3					
Sampler Name:	Adrian Irigoyen	a position there is no more to	****	***					-	Fax		r whom an althou			Chloride	<b>TPH (8015M)</b>	BTEX (8021B)	Hold For BTEX	1 1					
FOR LAB USE ONLY			Π	Π	Ī	, .	MATE	RIX				SERV	SAMPLIN	G		4	BT	유	added	all and the second				
Lab I.D. H301446	Sample I.	D	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME					OF X a					
	South Floor #1 @ 11	1'	G	1			x			T	İ	×	6/21/2013	1300	Х	Х		х						******
2	South Wall #1		G	1			х					X _	6/21/2013	1330	Х	Х		х	,					
3	TT-1 @ 19'		G	1			х					х	6/21/2013	1340	х	Х		х	X					
4	6-21-13 Stockpile	there are to also appeared the objections	G	1	_	~	×			┈.		×	6/21/2013	1350	X	х		_						
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	out of or rotated to the performance of ser	vices forexeder by Cardinal, re	eganiles	a of wh	rather t	such ci:								Phone Res	ult:	□ Ye	s 🖸	No	Add'l P	hone #:				
11 · 1																								

	affiliates or successors energy out of or related to the performance of servi-	ses harmender by Cerdinal, res	ganifess of whother such class is hased upon any of the above stated recours or otherwise.
-	Relinquished By:	Date: 1 - 2/1-/3	Received By:
	al. Alatan	6-24-17	1001. 1
	am & of	Time: 8:30	Well Henson
	Relinquished By:	Date:	Received By:
-	FORM-006	<b>-</b> :::::::	
1	Pavicion 4.0	Time:	

Phone Result:		O No	Add'l Phone #;		
Fax Result:	O Yes	□ No	Add'i Fax #:	-	 
REMARKS:			By the matter of the description of the second		 _



July 11, 2013

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: DRIP TANK #111

Enclosed are the results of analyses for samples received by the laboratory on 07/01/13 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To:

(575) 396-1429

Received:

07/01/2013

Reported:

07/11/2013

Project Name:

DRIP TANK #111

Project Number:

NONE GIVEN

Sampling Date:

07/01/2013

Sampling Type:

Sample Received By:

Soil

Sampling Condition:

Cool & Intact

Jodi Henson

Project Location:

LEA COUNTY

Sample ID: NORTH SW #1 (H301551-01)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2013	ND	2.07	103	2.00	8.04	
Toluene*	<0.050	0.050	07/02/2013	ND	1.80	89.9	2.00	9.41	
Ethylbenzene*	<0.050	0.050	07/02/2013	ND	1.77	88.6	2.00	9.25	
Total Xylenes*	<0.150	0.150	07/02/2013	ND	5.37	89.5	6.00	8.49	
Surrogate: Dibromofluoromethane	100	% 61.3-14	2						
Surrogate: Toluene-d8	98.0	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	107	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/02/2013	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/02/2013	ND	196	98.2	200	1.25	
DRO >C10-C28	<10.0	10.0	07/02/2013	ND	203	102	200	1.09	
EXT DRO >C28-C35	<10.0	10.0	07/02/2013	ND					
Surrogate: 1-Chlorooctane	85.4	% 65.2-14	10						-
Surrogate: 1-Chlorooctadecane	87.6	% 63.6-15	34						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celeg to Keena



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

07/01/2013

Reported: Project Name: 07/11/2013 DRIP TANK #111

Project Number:

NONE GIVEN

Project Location:

LEA COUNTY

Sampling Date:

07/01/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: NORTH SW #2 (H301551-02)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2013	ND	2.07	103	2.00	8.04	
Toluene*	<0.050	0.050	07/02/2013	ND	1.80	89.9	2.00	9.41	
Ethylbenzene*	<0.050	0.050	07/02/2013	ND	1.77	88.6	2.00	9.25	
Total Xylenes*	<0.150	0.150	07/02/2013	ND	5.37	89.5	6.00	8.49	
Surrogate: Dibromofluoromethane	102	% 61.3-14	12						
Surrogate: Toluene-d8	97.6	% 71.3-12	29						
Surrogate: 4-Bromofluorobenzene	105	% 65.7-14	11						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/02/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS				. <u>.</u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/02/2013	ND	196	98.2	200	1.25	
DRO >C10-C28	<10.0	10.0	07/02/2013	ND	203	102	200	1.09	
EXT DRO >C28-C35	<10.0	10.0	07/02/2013	ND					
Surrogate: 1-Chlorooctane	86.7	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	90.3	% 63.6-15	54						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To:

(575) 396-1429

Received: Reported: 07/01/2013

07/11/2013

Project Name:

DRIP TANK #111

Project Number: Project Location: NONE GIVEN LEA COUNTY

Sampling Date:

07/01/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: SOUTH SW #1B (H301551-03)

BTEX 8260B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2013	ND	2.07	103	2.00	8.04	
Toluene*	<0.050	0.050	07/02/2013	ND	1.80	89.9	2.00	9.41	
Ethylbenzene*	<0.050	0.050	07/02/2013	ND	1.77	88.6	2.00	9.25	
Total Xylenes*	<0.150	0.150	07/02/2013	ND	5.37	89.5	6.00	8.49	
Surrogate: Dibromofluoromethane	99.4	% 61.3-14	22						
Surrogate: Toluene-d8	99.5	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	108 9	% 65.7-14	1						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: DW			·= ···		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/02/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/02/2013	ND	196	98.2	200	1.25	
DRO >C10-C28	<10.0	10.0	07/02/2013	ND	203	102	200	1.09	
EXT DRO >C28-C35	<10.0	10.0	07/02/2013	ND					
Surrogate: 1-Chlorooctane	83.2	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	86.4	% 63.6-15	14						

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Celey D. Keine



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To:

(575) 396-1429

Applyzed By: MS

Received: Reported:

DTEV OSEAD

07/01/2013

07/11/2013

Project Name:

DRIP TANK #111

Project Number:

NONE GIVEN

Project Location:

LEA COUNTY

Sampling Date:

07/01/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: SOUTH SW #2 (H301551-04)

BTEX 8260B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2013	ND	2.07	103	2.00	8.04	
Toluene*	<0.050	0.050	07/02/2013	ND	1.80	89.9	2.00	9.41	
Ethylbenzene*	<0.050	0.050	07/02/2013	ND	1.77	88.6	2.00	9.25	
Total Xylenes*	<0.150	0.150	07/02/2013	ND	5.37	89.5	6.00	8.49	
Surrogate: Dibromofluoromethane	100 5	% 61.3-14	2						
Surrogate: Toluene-d8	101 5	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	109	% 65.7-14	7						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/02/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/02/2013	ND	196	98.2	200	1.25	
DRO >C10-C28	<10.0	10.0	07/02/2013	ND	203	102	200	1.09	
EXT DRO >C28-C35	<10.0	10.0	07/02/2013	ND					
Surrogate: 1-Chlorooctane	71.4	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	74.5	% 63.6-15	i4						

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Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 (575) 396-1429

Fax To:

Received:

07/01/2013

Reported:

07/11/2013

Project Name:

DRIP TANK #111

Project Number: Project Location:

NONE GIVEN LEA COUNTY

Sampling Date:

07/01/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: EAST SW #1 (H301551-05)

BTEX 8260B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2013	ND	2.07	103	2.00	8.04	
Toluene*	<0.050	0.050	07/02/2013	ND	1.80	89.9	2.00	9.41	
Ethylbenzene*	<0.050	0.050	07/02/2013	ND	1.77	88.6	2.00	9.25	
Total Xylenes*	<0.150	0.150	07/02/2013	ND	5.37	89.5	6.00	8.49	
Surrogate: Dibromofluoromethane	99.8	% 61.3-14	72						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	108	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/02/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/02/2013	ND	196	98.2	200	1.25	
DRO >C10-C28	<10.0	10.0	07/02/2013	ND	203	102	200	1.09	
EXT DRO >C28-C35	<10.0	10.0	07/02/2013	ND					
Surrogate: 1-Chlorooctane	82.6	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	83.3	% 63.6-15	i <i>4</i>						

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Clay Do Kura



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: Reported: 07/01/2013

07/11/2013

Project Name:

DRIP TANK #111

Project Number:

NONE GIVEN

Project Location:

LEA COUNTY

Sampling Date:

07/01/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: EAST SW #2 (H301551-06)

BTEX 8260B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2013	· ND	2.07	103	2.00	8.04	
Toluene*	<0.050	0.050	07/02/2013	ND	1.80	89.9	2.00	9.41	•
Ethylbenzene*	<0.050	0.050	07/02/2013	ND	1.77	88.6	2.00	9.25	
Total Xylenes*	<0.150	0.150	07/02/2013	ND	5.37	89.5	6.00	8.49	
Surrogate: Dibromofluoromethane	99.0	% 61.3-14	2					·	
Surrogate: Toluene-d8	99.2	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	109	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/02/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/02/2013	ND	196	98.2	200	1.25	
DRO >C10-C28	<10.0	10.0	07/02/2013	ND	203	102	200	1.09	,
EXT DRO >C28-C35	<10.0	10.0	07/02/2013	ND					
Surrogate: 1-Chlorooctane	82.8	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	86.6	% 63.6-15	i <i>4</i>						

Analyzad Dyr MC

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Celey & Keine



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

07/01/2013

Reported:

07/11/2013

Project Name:

DRIP TANK #111

Project Number:

NONE GIVEN

Sampling Date:

07/01/2013

Sampling Type:

Soil

Sampling Condition:

Sample Received By:

Cool & Intact Jodi Henson

Project Location:

LEA COUNTY

#### Sample ID: STOCKPILE #1 (H301551-07)

BTEX 8260B	mg/	kg	Analyze	d By: MS		···			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	07/10/2013	ND	2.21	111	2.00	24.4	
Toluene*	<0.200	0.200	07/10/2013	ND	2.24	112	2.00	21.9	
Ethylbenzene*	<0.200	0.200	07/10/2013	ND	2.21	110	2.00	19.3	
Total Xylenes*	<0.600	0.600	07/10/2013	ND	6.71	112	6.00	17.4	
Surrogate: Dibromofluoromethane	94.4	% 61.3-14	12						
Surrogate: Toluene-d8	105	% 71.3-12	29						
Surrogate: 4-Bromofluorobenzene	123 5	% 65.7-14	1]						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: DW			***		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/02/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/02/2013	ND	196	98.2	200	1.25	
DRO >C10-C28	2400	50.0	07/02/2013	ND	203	102	200	1.09	
EXT DRO >C28-C35	604	50.0	07/02/2013	ND					
Surrogate: 1-Chlorooctane	87.2	% 65.2-14	10	-					
Surrogate: 1-Chlorooctadecane	136	% 63.6-15	54						

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Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 (575) 396-1429

Fax To:

Received:

07/01/2013

Reported: Project Name: 07/11/2013

Project Number:

DRIP TANK #111 NONE GIVEN

Project Location:

LEA COUNTY

Sampling Date:

07/01/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### **Sample ID: STOCKPILE #2 (H301551-08)**

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/02/2013	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/02/2013	ND	196	98.2	200	1.25	
DRO >C10-C28	2380	50.0	07/02/2013	ND	203	102	200	1.09	
EXT DRO >C28-C35	714	50.0	07/02/2013	ND					
Surrogate: 1-Chlorooctane	91.3	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	137	% 63.6-15	4						

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aleg & Kerre



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Received:

07/01/2013

Reported: 07/11/2013

Project Name: Project Number: DRIP TANK #111 NONE GIVEN

Project Location:

LEA COUNTY

Sampling Date:

07/01/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: STOCKPILE #3 (H301551-09)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	07/11/2013	ND	2.21	111	2.00	24.4	
Toluene*	<0.200	0.200	07/11/2013	ND	2.24	112	2.00	21.9	
Ethylbenzene*	<0.200	0.200	07/11/2013	ND	2.21	110	2.00	19.3	
Total Xylenes*	<0.600	0.600	07/11/2013	ND	6.71	112	6.00	17.4	
Surrogate: Dibromofluoromethane	95.5	% 61.3-14	12						
Surrogate: Toluene-d8	103 9	% 71.3-12	19						
Surrogate: 4-Bromofluorobenzene	125	% 65.7-14	17						
Chloride, \$M4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/02/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/02/2013	ND	196	98.2	200	1.25	
DRO >C10-C28	2250	50.0	07/02/2013	ND	203	102	200	1.09	
EXT DRO >C28-C35	657	50.0	07/02/2013	ND					
Surrogate: 1-Chlorooctane	84.0	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	130	% 63.6-15	54						

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Received:

07/01/2013

Reported:

07/11/2013 DRIP TANK #111

Project Name: Project Number:

NONE GIVEN

Project Location:

LEA COUNTY

Sampling Date:

07/01/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: STOCKPILE #4 (H301551-10)

BTEX 8260B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	07/11/2013	ND	2.21	111	2.00	24.4	
Toluene*	<0.200	0.200	07/11/2013	ND	2.24	112	2.00	21.9	
Ethylbenzene*	<0.200	0.200	07/11/2013	ND	2.21	110	2.00	19.3	
Total Xylenes*	<0.600	0.600	07/11/2013	ND	6.71	112	6.00	17.4	
Surrogate: Dibromofluoromethane	96.3	% 61.3-14	2						
Surrogate: Toluene-d8	103 5	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	122	% 65.7-14	1						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: DW			<u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/02/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte ´	Result	Reporting Limit	Analyzed	Method Blank	BS	· % Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/02/2013	ND	196	98.2	200	1.25	
DRO >C10-C28	2310	50.0	07/02/2013	ND	203	102	200	1.09	
EXT DRO >C28-C35	707	50.0	07/02/2013	ND					
Surrogate: 1-Chlorooctane	87.8	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	129	% 63.6-15	i <i>4</i>						

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\*=Accredited Analyte

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Celey D. Kune



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

LAB Order ID	# H301551														-												1.01	P	age	·	-	1	of		1
	Cardinal Labora	ito	rie	S		Ho Te	<b>bbs,</b> 1 (575)	st Mari NM 8 ) 393- ) 393-	8240 2326																										
Company Name:	Davis Facility and Consider Tools			_	Pho	ne #:					£7£	:126	ne 33	70														ES'			m.,	-			
Address:	Basin Environmental Service Tech P.O. Box 301		ies, Li		Fax	<b>#</b> :			······································		-		96-23			$\neg$	1	}	(	Cir 	cle	0 (	r S I	pe I	eci	fy I	Me	tho	od I	No 	.)	1	1 1	l	J
Contact Person:	Lovington, NM 8826	<u>. U</u>			E-ma					v.cc	m,p	ohil	-1429 Ilio.littl yqas.c	e@su	q.con	1.																			
Involce to:	Southern Union Gas						ynai	.!! 15!	keer	N(W)	ece	ney	yuas.u	OIII		_																		andard	
Project #:					Proje	ect Na	me:				Dri	р. Т	ank #	111																				from st	
Project Location: (include state)	Lea Co., NM				Sam Sign	pler ature:	0	ne	Ģ	le	و م	رې	ح_	ſ																				different	
		)OMP	RS S		MA	TRIX	/		PR	ESE ME	RV/ THO	ATI DD			APLIN	IG																		Time if	
LAB ID ( LAB USE ) ONLY	SAMPLE ID	(G)RAB or (C)OMP	# CONTAINERS	WATER	SOIL	AIR	2000	년 건	HNO3	H <sub>2</sub> SO <sub>4</sub>	NaOH	SE SE	NONE	2rl3	, and a		Chloride	TPH 8015M	2200 5710															Turn Around Time if different from standard	Hold
1	North Swall	C	1		1							1		7/1	10:4		X									Ī	1	I		П	I	T			
2	North su #7	U	1		٧							7		7/1	10:	35	Ĺ	1 4												$\prod$					
3	South 5w#15	b	1		1							1		7/1	10:	31	X	r d													$\perp$				
4	South Sw# Z	6	1		1							1		7/1	10:	25	X	1										$\perp$							
5	Past Sw Hl	6	(		1							•		7/1	10:	5	X	y X																	
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Submittal of sample	es constitutes agreement to Terms and Conditio	ns												-		k	Cam	er#_																	



July 05, 2013

**JOEL LOWRY** 

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: DRIP TANK #111

Enclosed are the results of analyses for samples received by the laboratory on 07/03/13 8:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey & Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To:

(575) 396-1429

Received:

07/03/2013

Reported:

07/05/2013

Project Name:

DRIP TANK #111

Project Number: Project Location: NONE GIVEN LEA COUNTY Sampling Date:

07/02/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: WEST SW #1 (H301567-01)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2013	ND	2.14	107	2.00	2.42	
Toluene*	<0.050	0.050	07/04/2013	ND	2.26	113	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/04/2013	ND	2.45	123	2.00	2.84	
Total Xylenes*	<0.150	0.150	07/04/2013	ND	7.44	124	6.00	2.43	
Total BTEX	<0.300	0.300	07/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	118 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					-200
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2013	ND	205	102	200	1.94	
DRO >C10-C28	<10.0	10.0	07/03/2013	ND	191	95.6	200	9.03	
EXT DRO >C28-C35	<10.0	10.0	07/03/2013	ND					
Surrogate: 1-Chlorooctane	84.4 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	81.7	% 63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's kiability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeng & Keene



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To:

(575) 396-1429

Ameliand Die AD

Received:

07/03/2013

Sampling Date:

07/02/2013

Reported:

07/05/2013

Sampling Type:

Soil

Project Name:

DRIP TANK #111

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

LEA COUNTY

#### Sample ID: WEST SW #2 (H301567-02)

BTEX 8021B	mg/	kg	Analyze	d By: AP				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2013	ND	2.14	107	2.00	2.42	
Toluene*	<0.050	0.050	07/04/2013	ND	2.26	113	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/04/2013	ND	2.45	123	2.00	2.84	
Total Xylenes*	<0.150	0.150	07/04/2013	ND	7.44	124	6.00	2.43	
Total BTEX	<0.300	0.300	07/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	118 %	6 89.4-12	6				·		
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	07/05/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2013	ND	205	102	200	1.94	
DRO >C10-C28	36.1	10.0	07/03/2013	ND	191	95.6	200	9.03	
EXT DRO >C28-C35	21.3	10.0	07/03/2013	ND					
Surrogate: 1-Chlorooctane	86.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	89.1	% 63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celegti Keene



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liabile for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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July 10, 2013

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: DRIP TANK #111

Enclosed are the results of analyses for samples received by the laboratory on 07/08/13 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To:

(575) 396-1429

Received:

07/08/2013

Reported:

07/10/2013

Project Name: Project Number: DRIP TANK #111 NONE GIVEN

Project Location:

LEA COUNTY

Sampling Date:

07/03/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: CENTER FLOOR (H301588-01)

BTEX 8021B	mg/	/kg	Analyze	d By: DW					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2013	ND	2.51	126	2.00	7.67	
Toluene*	0.849	0.050	07/10/2013	ND	2.43	122	2.00	8.28	
Ethylbenzene*	5.66	0.050	07/10/2013	ND	2.50	125	2.00	9.23	
Total Xylenes*	5.01	0.150	07/10/2013	ND	7.47	124	6.00	8.81	
Total BTEX	11.5	0.300	07/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	461	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/09/2013	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	329	50.0	07/09/2013	ND	201	100	200	2.08	
DRO >C10-C28	4920	50.0	07/09/2013	ND	212	106	200	5.52	
EXT DRO >C28-C35	1030	50.0	07/09/2013	ND					
Surrogate: 1-Chlorooctane	120	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	186	% 63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celegiskene



#### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by clarified by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories,

Celey & Keene

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Address:	P.O. B Lovington,		)		Fa	x #:				(57	5)39	6-1	429			]		ی, 		e 0	r 3þ	)ec	ify I 	wet	no: 	a N	IO.)			1	
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Submittal of samples c	constitutes agreement to Terms			SINAL	СОР	Y				::.	·		. :			Carri	er#														

# Appendix D Soil Boring Logs

## Soil Boring SB-1

Depth Below Ground Surface	Soil <u>Column</u>	CI- ppm	TPH ppm	Soil Description	Boring SB-1
5		8.59	16.3	0' - 8' - Tan fine sand - caliche sandstone	Date Drilled         April 29, 2013           Thickness of Bentonile Seal         38 Ft           Depth of Exploratory Boring         40 Ft bgs           Depth to Groundwater         N/A           Ground Water Elevation         N/A
- 15 - 15				8' - 21' - Tannish red v. f. sand - sandstone (cement)	Indicates the PSH level measured on N/A  Indicates the groundwater level measured on N/A
20		57.3	<16.4		
30		64.7	<15.6	21' - 40' - Beige silty sand - Caliche nodules sandstone	
Ē.		55.8	<15.8		

#### Completion Notes

- The soil boring was advanced on date using air rotary drilling techniques.
   The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

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

Prep By: JWL Checked By: BJA June 3, 2013

# Soil Boring SB-2

Depth Below Ground Surface	Soil <u>Column</u>	CI- ppm	TPH ppm	Soil Description	Boring SB-2
- - - - - - - - - - - - - - - - - - -		911	48.8	0' - 11' - Tan fine sand - caliche (cement) sandstone	Date Drilled
15				11' - 14' - Tan silty sand - sandstone	Indicates the PSH level measured onN/A
		55.4	27.6	14' - 18' - Tannish red v. f. sandstone	▼ Indicates the groundwater level measured on N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A
30		44.5	18.0	18' - 40' - Beige silty sand - Caliche nodules sandstone	
E 40		48.7	19.9		

#### Completion Notes

- The soil boring was advanced on date using air rotary drilling techniques.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

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

Prep By: JWL Checked By: BJA
June 3, 2013

Southern Union Gas Services Drip Tank #111 Lea County, New Mexico NMOCD Reference #: 1RP-1820

# Soil Boring SB-3

Depth Below	C- "	CI	TDU		
Ground Surface	Soil <u>Column</u>	CI- ppm	TPH <u>ppm</u>	Soil Description	Boring SB-3
E°				0' - 6' - Tan fine sand - caliche (cement) sandstone	Date Drilled         April 29, 2013           Thickness of Bentonite Seal         98 Ft           Depth of Exploratory Boring         100 Ft bgs
10		267	8,590	6' - 9' - Brownish tan fine sand - sandstone	Depth to Groundwater N/A Ground Water Elevation N/A
				9' - 17' - Light tan v. f. sand - (cement) sandstone	Indicates the PSH level measured on N/A Indicates the groundwater level
		110	4,470		measured on N/A
30		245	4,220	17' - 52' - Tan v. f. sand - sandstone	
- - - - - - - - - - - - - - - - - - -		156	3,380		
		55.0	3,380		
		145	3,280		
- 65 - 70 - 70		184	1,320		
75       80  		66.5	183	52' - 100' - Tan v. f. sand	
- 85 90 		80.5	100		
95		47.0	130		

#### Completion Notes

- The soil boring was advanced on date using air rotary drilling techniques.
   The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

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

Prep By: JWL Checked By: BJA June 3, 2013

**Southern Union Gas Services** Drip Tank #111 Lea County, New Mexico NMOCD Reference #: 1RP-1820

# Appendix E Pit or Below-Grade Tank Registration Form (Form C-144)

District 1
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 For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Form C-144

June 1, 2004

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 Gae Services Telephone: 575	305-2116 e-mail address: ton	w cavoje (Asua com						
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								
	U/L or Qtr/Qtr <u>E</u>	Sec 27 T 22 S R 36E						
	2 deg 21.904N Longitude 103 deg. 15							
Surface Owner: Federal  State  Private  Indian	Z deg 21.70414 Eonghade 103 dog. 13	. 1727 E 1705 E						
Pit	Below-grade tank							
Type: Drilling Production Disposal	Volume: _100_bbl Type of fluid:Produced water and crude oil							
Workover  Emergency	Construction material:Steel							
Lined Unlined	Double-walled, with leak detection? Yes  If not, explain why not.							
Liner type: Synthetic  Thickness mil Clay	Tank was installed by EPNG before the BGT regulations were written							
Pit Volumebbl	Talk was installed by Et NO belote the BOT regulations were written							
TR Volume	Less than 50 feet	(20 points)						
Depth to ground water (vertical distance from bottom of pit to seasonal	50 feet or more, but less than 100 feet	(20 points) (10 points)						
high water elevation of ground water.) Average 108 ft.	100 feet or more	( 0 points)						
	100 feet of filore	( o points)						
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)						
water source, or less than 1000 feet from all other water sources.)	No	( 0 points)						
No, 4377 Horiz. Ft to a private water well		( o points)						
Distance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)						
irrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points)						
2.01 Horizontal miles to a playa and an intermittent water course.	1000 feet or more	( 0 points)						
	Ranking Score (Total Points)	0 Points						
If this is a pit closure: (1) Attach a diagram of the facility showing the pit's								
your are burying in place) onsite 🔲 offsite 🔲 If offsite, name of facility								
emediation start date and end date. (4) Groundwater encountered: No 🔲 Y	Yes I If yes, show depth below ground surface	ft. and attach sample results.						
(5) Attach soil sample results and a diagram of sample locations and excaval	tions							
Additional Comments. The Below Grade Tank will be removed in accorda	nnce with the NMOCD proposed Pit and Below Grace	de Tank Rules						
		1						
I hereby certify that the information above is true and complete to the best	of my knowledge and heliaf. I further cortify that	the above described nit or below grade tonk						
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: _3/13/08								
Printed Name/ Tony Savoie	Q 3							
Title Waste Management and Remediation Specialist Signature / Only Science  Vous continuous and NIMOCD consequel of this condication (along a description).								
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								
oproval:								
Approval: Printed Name/Title	Signature ERN/ID ONIMENTAL ENC	INFER SULLA SA						
Timeo (vane) Title	Signature ENVIRONMENTAL ENG	1 R P = 1820						

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