

### **AE Order Number Banner**

**Report Description** 

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App Number: pCOH0808039348

1RP - 1821

### SOUTHERN UNION GAS COMPANY

2/16/2016

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources** Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-144 Revised August 1, 2011

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

### Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action:

Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
 Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
 Modification to an existing permit

Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

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

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

1. Operator: _Southern Union Gas Services OGRID #: N/A
Address: 801 S. Loop 464 Monahans, Texas 79756
Facility or well name: Drip Tank #106
API Number: N/A OCD Permit Number:
U/L or Qtr/Qtr K Section 33 Township 21S Range 36E County: Lea County, NM
Center of Proposed Design: Latitude 32 25.933 Longitude -103 16.233 NAD: 1927 🛛 1983
Surface Owner:  Federal State  Private  Tribal Trust or Indian Allotment
2.  Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3.         Closed-loop System:       Subsection H of 19.15.17.11 NMAC         Type of Operation:       P&A         Drilling a new well       Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)         Drying Pad       Above Ground Steel Tanks       Haul-off Bins       Other         Lined       Unlined       Liner type: Thickness       mil       LLDPE       HDPE       PVC       Other         Liner Seams:       Welded       Factory       Other
Liner Seams:       Welded       Factory       Other
5. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office 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\_

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

Screen Netting Other\_

10.

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

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

### Administrative Approvals 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:

Administrative approval(s):	Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for	Dr
consideration of approval.		

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

### Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.

<ul> <li>Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>	Yes X No
<ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗶 No
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks)</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	☐ Yes ⊠ No ☐ NA
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits)</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	☐ Yes ⊠ No ☐ NA
<ul> <li>Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗋 Yes 🕅 No
<ul> <li>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.</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul>	🗋 Yes 🖾 No
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	Yes 🛛 No
<ul> <li>Within the area overlying a subsurface mine.</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>	Yes 🛛 No
<ul> <li>Within an unstable area.</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.	Yes X No

11.       Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC         Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.         Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC         Sitting Criteria Compliance Demonstrations - 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 19.15.17.9 NMAC         Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number:         12.         Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Previously Approved Operating and Maintenance Plan API Number: (Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
13.         Permanent Pits Permit Application Checklist:       Subsection B of 19.15.17.9 NMAC         Instructions:       Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.         Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC         Sitting 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         Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC         Quality Control/Quality Assurance Construction and Installation Plan         Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 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 19.15.17.9 NMAC and 19.15.17.13 NMAC
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         Alternative       Permanent Pit       Below-grade Tank         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 (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
15.         Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.         Image: Second State       Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC         Image: Second State       Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC         Image: Second State       Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC         Image: Second State       Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC         Image: State       Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

<sup>16.</sup> Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Instructions: Please indentify the facility or facilities for the disposal of liquids, of facilities are required.		
	Disposal Facility Permit Number:	
	Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities or Yes (If yes, please provide the information below) No		
Required for impacted areas which will not be used for future service and operation Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	requirements of Subsection H of 19.15.17.13 NMA I of 19.15.17.13 NMAC	С
<sup>17.</sup> <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the provided below. Requests regarding changes to certain siting criteria may requir considered an exception which must be submitted to the Santa Fe Environmental demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC f	e administrative approval from the appropriate dist Bureau office for consideration of approval. Just	rict office or may be
Ground water is less than 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 between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data	obtained from nearby wells	□ Yes □ No □ NA
Ground water is more than 100 feet below the bottom of the buried waste NM Office of the State Engineer - iWATERS database search; USGS; Data	obtained from nearby wells	□ Yes □ No □ NA
<ul> <li>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other sign lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	ificant watercourse or lakebed, sinkhole, or playa	🗌 Yes 🗌 No
Within 300 feet from a permanent residence, school, hospital, institution, or church - Visual inspection (certification) of the proposed site; Aerial photo; Satellite		Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less watering purposes, or within 1000 horizontal feet of any other fresh water well or sp - NM Office of the State Engineer - iWATERS database; Visual inspection (	oring, in existence at the time of initial application.	🗌 Yes 🗌 No
Within incorporated municipal boundaries or within a defined municipal fresh water adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approve		🗌 Yes 🗌 No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visua	l inspection (certification) of the proposed site	🗌 Yes 🗌 No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining	and Mineral Division	Yes No
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology Society; Topographic map</li> </ul>	& Mineral Resources; USGS; NM Geological	🗌 Yes 🗌 No
Within a 100-year floodplain. - FEMA map		🗌 Yes 🗌 No
<ul> <li>18.</li> <li>On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached.</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of I Construction/Design Plan of Temporary Pit (for in-place burial of a drying pa Protocols and Procedures - based upon the appropriate requirements of 19.15.</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Siste Material Sampling Plan - based upon the appropriate requirements of Siste Material Sampling Plan the appropriate requirements of Siste Material Sampling Plan - based upon the appropriate requirements of Siste Material Sampling - based upon the appropriate requirements of Siste Material Sampling Plan - based upon the appropriate requirements of Siste Material Sampling - based upon the appropriate requirements of Siste Material Sampling Plan - based upon the appropriate requirements of Siste Material Sampling - based upon the appropriate requirements of Siste Material Sampling Plan - based upon the appropriate requirements of Siste Material Sampling - based upon the appropriate requirements of Siste Material Sampling - based upon the appropriate requirements of Siste Material Sampling - based upon the appropriate requirements of Siste Material Sampling - based upon the appropriate requirements of Siste Material Sampling - based upon the appropriate requirements of Siste Material Sampling - based upon the appropriate requirements of Siste Material Sampling - based upon the appropriate requirements of Siste Material Siste Material</li></ul>	irements of 19.15.17.10 NMAC Subsection F of 19.15.17.13 NMAC propriate requirements of 19.15.17.11 NMAC d) - based upon the appropriate requirements of 19.1 .17.13 NMAC irements of Subsection F of 19.15.17.13 NMAC Subsection F of 19.15.17.13 NMAC ill cuttings or in case on-site closure standards cannot	15.17.11 NMAC

Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

19. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate	
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:
20. OCD Approval: Permit Application (including closure plan) Closure Pl OCD Representative Signature Environmental Specialist	an (on y)
21. <u>Closure Report (required within 60 days of closure completion)</u> : Subsection 1 Instructions: Operators are required to obtain an approved closure plan prior to The closure report is required to be submitted to the division within 60 days of th section of the form until an approved closure plan has been obtained and the clo	o implementing any closure activities and submitting the closure report. The completion of the closure activities. Please do not complete this
	X Closure Completion Date: 4/25/13
22.         Closure Method:         X         Waste Excavation and Removal         On-Site Closure Method         If different from approved plan, please explain.	tive Closure Method 🔲 Waste Removal (Closed-loop systems only)
23. <u>Closure Report Regarding Waste Removal Closure For Closed-loop Systems</u> Instructions: Please indentify the facility or facilities for where the liquids, drill two facilities were utilized.	
Disposal Facility Name:	
Disposal Facility Name:	Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or Yes (If yes, please demonstrate compliance to the items below) No	in areas that will not be used for future service and operations?
Required for impacted areas which will not be used for future service and operation           Site Reclamation (Photo Documentation)           Soil Backfilling and Cover Installation           Re-vegetation Application Rates and Seeding Technique	ons:
<ul> <li>24.</li> <li>Closure Report Attachment Checklist: Instructions: Each of the following itemark in the box, that the documents are attached.</li> <li>Proof of Closure Notice (surface owner and division)</li> <li>Proof of Deed Notice (required for on-site closure)</li> <li>Plot Plan (for on-site closures and temporary pits)</li> <li>Confirmation Sampling Analytical Results (if applicable)</li> <li>Waste Material Sampling Analytical Results (required for on-site closure)</li> <li>Disposal Facility Name and Permit Number</li> <li>Soil Backfilling and Cover Installation</li> <li>Re-vegetation Application Rates and Seeding Technique</li> <li>Site Reclamation (Photo Documentation)</li> <li>On-site Closure Location: Latitude Longitude</li> </ul>	
<ul> <li>25.</li> <li><u>Operator Closure Certification</u>:</li> <li>I hereby certify that the information and attachments submitted with this closure rebelief. I also certify that the closure complies with all applicable closure requirement</li> </ul>	
Name (Print): Jegob Krantsch	Title: Sr. Virector EH15
Signature: Jaas hult	Date: 6-17-2013
e-mail address: jacob. Krautsch@regencygas.com	Telephone: 817-302-9426

<u>Existrict 1</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 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

S	anta Fe, NM 87505	
Pit or Below-Gra	ade Tank Registration or Close	sure
Is pit or below-grade tar	ik covered by a "general plan"? Yes X	No 🔲
Type of action: Registration of a pit	or below-grade tank Closure of a pit or below-	grade tank
Operator: Southern Union Gas Services Telephone: 575	-395-2116 e-mail address: to	my savoie (a)sug com
Address: P.O Box 1226 Jal, New Mexico 88252		
Facility or well name: Drip Tank #106 API #:	U/L or Qtr/Qtr K	Sec 33 T 21 S R 36E
	2 deg. 25 933N Longitude 103 deg. 1	
Surface Owner. Federal 🗌 State 🖾 Private 🗖 Indian 🗍		
Pit	Below-grade tank	
Type: Drilling Production Disposal	Volume100_bbl Type of fluid:Produced	a water and crude oil
Workover Emergency	Construction material:Steel	
	Double-walled, with leak detection? Yes I If	not, explain why not AK () 4 2008
Liner type: Synthetic 🗌 Thicknessmil Clay 🔲	Tank was installed by EPNG before the BGT	HOBBS OCD
Pit Volumebbl		huddo uul
Depth to ground water (vertical distance from bottom of pit to seasonal	Less than 50 feet	(20 points)
high water elevation of ground water.) Average 201ft.	50 feet or more, but less than 100 feet	(10 points)
	100 feet or more	( 0 points)
Wellhead protection area: (Less than 200 feet from a private domestic		
water source, or less than 1000 feet from all other water sources )	Yes	(20 points)
No, 3257 Horiz. Ft. to a private water well	No	( 0 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)
1.80 Horizontal miles to an intermittent water course.	1000 feet or more	( 0 points)
		0 Points
	Ranking Score (Total Points)	V FOIRS
If this is a pit closure: (1) Attach a diagram of the facility showing the pit	's relationship to other equipment and tanks (2) In	dicate disposal location. (check the onsite box if
your are burying in place) onsite 🗌 offsite 🔲 If offsite, name of facility_	. (3) Attach a gener	al description of remedial action taken including
remediation start date and end date. (4) Groundwater encountered: No	Yes 🗌 If yes, show depth below ground surface_	ft. and attach sample results.
(5) Attach soil sample results and a diagram of sample locations and excava	itions.	
Additional Comments The Below Grade Tank will be removed in accord	ance with the NMOCD proposed Pit and Below Gr	ade Tank Rules
		and the second second second
I hereby certify that the information above is true and complete to the best	of my brouladay and baliaf I further contify th	at the above described ait or below grade tank
has been/will be constructed or closed according to NMOCD guideline		
Date3/3/08		
Printed Name/ Tony Savoie	re i au Since	
Title Waste Management and Remediation Specialist Signatu		
Your certification and NMOCD approval of this application/closure does otherwise endanger public health or the environment. Nor does it relieve	not relieve the operator of liability should the content of its responsibility for compliance with	ents of the pit or tank contaminate ground water or th any other federal, state, or local laws and/or
	Solusor	
Approval:		
Printed Name/Title	SignatureNVIRONMENTAL ENG	INEER Date 3. 18.08
		1KP- 1821
FODAD 808038	868	

### **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

is Effective Solutions

### **REMEDIATION SUMMARY &**

### SITE CLOSURE REQUEST

### SOUTHERN UNION GAS SERVICES DRIP TANK #106 (1RP-1821) HISTORICAL RELEASE SITE Lea County, New Mexico Unit Letter "K", Section 33, Township 21 South, Range 36 East Latitude 32° 25.933' North, Longitude 103° 16.233' West NMOCD Reference # 1RP-1821

Prepared For:

Southern Union Gas Services 801 S. Loop 464 Monahans, TX 79756

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

**June 2013** 

HOEBS OCD JUN 19 2013 RECEIVED

Project Manager

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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 – Laboratory Analytical Reports Appendix C – Pit or Below-Grade Tank Registration Form (Form C-144)

### 1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of Southern Union Gas Services (Southern Union), has prepared this *Remediation Summary & Site Closure Request* for the Drip Tank Battery #106 Historical Release Site (1RP-1821). The legal description of the release site is Unit Letter "K", Section 33, Township 21 South, Range 36 East, in Lea County, New Mexico. The geographic coordinates of the release site are 32° 25.933' North latitude and 103° 16.233' West longitude. The property affected by the release is owned by the State of New Mexico and administered by the New Mexico State Land Office (NMSLO).

On March 3, 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 #106 and notifying them of their intentions to remove the 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. General photographs of the release site are provided as Appendix A. The Form C-144 is provided as Appendix C.

### 2.0 NMOCD SITE CLASSIFICATION

An NMOCD representative indicated on the initial C-144 that the depth to groundwater is approximately two hundred and ten (210') feet 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 1,000' of the remediation site. 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 1,000' of the remediation site. 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 #106 Historical Remediation 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 March 11, 2008, exhumation of the BGT began. Inactive pipelines and plumbing were disconnected, and the BGT was removed and transported to a disposal facility. Upon removing the BGT, five (5) soil samples (Floor, North Wall, East Wall, South Wall and West Wall) were collected from the excavation floor and sidewalls and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the appropriate laboratory method detection limit (MDL) for soil samples Floor, North Wall and East Wall to 40 mg/kg for soil sample South Wall. 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 B.

On March 14, 2008, the excavated area representing the former BGT location was backfilled with locally purchased, non-impacted material. Excavation backfill was water-packed and compacted in eighteen-inch (18") lifts.

On or around March 13, 2013, two decommissioned above ground storage tanks (ASTs) were removed from the location. During the removal of the ASTs, no holes or visible staining were encountered.

On April 3, 2013, four (4) soil samples (West Floor, South Floor, North Floor and East Floor) were collected from the footprint of the #106 AST and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH concentrations were less than the laboratory MDL for each of the submitted soil samples. Chloride concentrations ranged from 32 mg/kg for soil sample East Floor to 832 mg/kg for soil sample West Floor. Soil sample North Floor was also analyzed for concentrations of BTEX which were determined to be less than the laboratory MDL.

On April 25, 2013, a series of test trenches were advanced in the footprints of the former ASTs in an effort to determine soil had been impacted above NMOCD Regulatory Standards. During the advancement of the test trenches, five (5) soil samples (South Tank Surface, South Tank (2), South Tank (2), North Tank (2), North Tank (2), North Tank (2), Were collected and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were less than the appropriate laboratory MDL for each of the submitted soil samples. Test trenches were backfilled and the site was contoured to match the surrounding topography. The site will be reseeded at a time more conducive to germination.

### 4.0 QA/QC PROCEDURES

### 4.1 Soil Sampling

Soil samples were delivered to Permian Basin Environmental Lab LP, of Midland, Texas, and/or Cardinal Laboratories, of Hobbs, New Mexico, for BTEX, TPH, and/or 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 during the BGT removal indicated benzene, BTEX, TPH and chloride concentrations were less than NMOCD regulatory standards. Soil samples collected from beneath the former ASTs indicated soil had not been impacted above NMOCD Regulatory Standards. Based on these laboratory analytical results, Basin recommends Southern Union provide the NMOCD Hobbs District Office a copy of this *Remediation Summary & Site Closure Request* and request the NMOCD grant site closure to the Drip Tank #106 Historical Remediation Site.

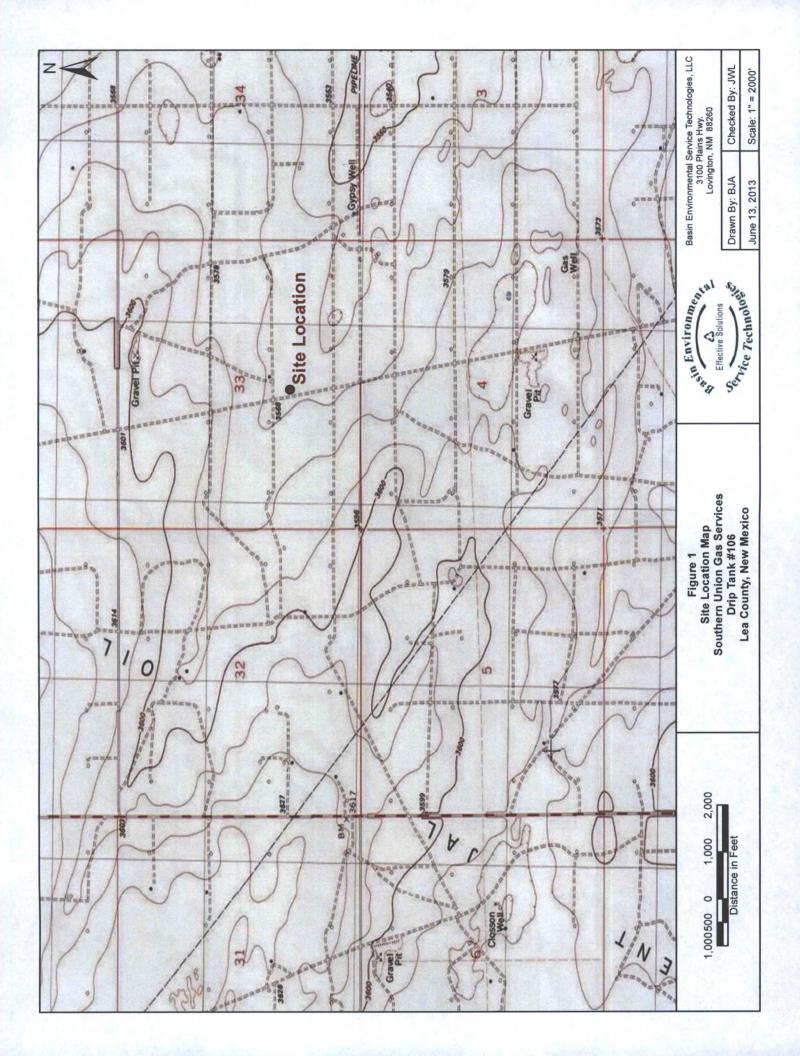
### 6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & 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 Southern Union Gas Services. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and/or Southern Union Gas 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: Jacob Krautsch Southern Union Gas Services 801 S. Loop 464 Monahans, Texas 79756 Jacob.krautsch@SUG.com
- Copy 3: Basin Environmental Service Technologies, LLC P.O. Box 301 Lovington, New Mexico 88260 jwlowry@basinenv.com



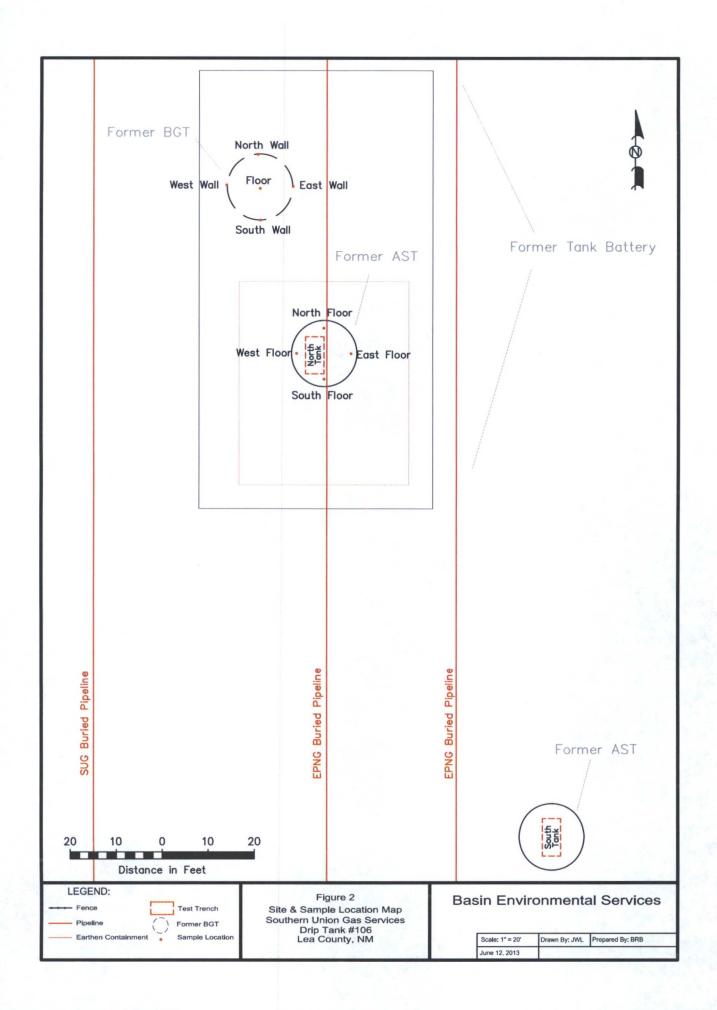


TABLE 1

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

### SOUTHERN UNION GAS SERVICES DRIP TANK BATTERY #106 HISTORICAL RELEASE SITE LEA COUNTY, NEW MEXICO NMOCD REF: # 1RP-1821

					METHOD: EI	METHOD: EPA SW 846-8021B, 5030	121B, 5030		ME	<b>METHOD: 8015M</b>	SM	TOTAL	EPA: 300
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	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)	C6-C28 (mg/Kg)	CHLORIDE (mg/Kg)
Floor	N/A	3/11/2008	N/A						<15.9	<15.9	<15.9	<15.9	<5.00
North Wall	N/A	3/11/2008	N/A				·		<15.9	<15.9	<15.9	<15.9	
East Wall	N/A	3/11/2008	N/A						<16.2	<16.2	<16.2	<16.2	
South Wall	N/A	3/11/2008	N/A						21.2	18.8	<16.0	40	
West Wall	N/A	3/11/2008	N/A	-	1			•	20.4	18.4	<15.8	39	
									AUDIO SALAN	and the second second			
West Floor	Surface	04/03/13	In-Situ	-					<10.0	<10.0	<10.0	<10.0	832
South Floor	Surface	04/03/13	In-Situ	-					<10.0	<10.0	<10.0	<10.0	352
North Floor	Surface	04/03/13	In-Situ	<0.050	0.089	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
East Floor	Surface	04/03/13	In-Situ	100	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	-		<10.0	<10.0	<10.0	<10.0	32
South Tank Surface	Surface	04/25/13	In-Situ	<0.050	0.089	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
South Tank @ 1'	1.	04/25/13	In-Situ	<0.050	0.089	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
South Tank @ 2'	2'	04/25/13	In-Situ	<0.050	0.089	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
North Tank @ 1'	1.	04/25/13	In-Situ	<0.050	0.089	<0.050	<0.150	<0.300	<10.0	13.1	<10.0	13.1	<16.0
North Tank @ 2'	2'	04/25/13	In-Situ	<0.050	0.089	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
「「「「「「」」」」」」」」」」」」」」」」」」」」」」」」」」」」」」」」													
NMOCD Standard				10				50				5,000	1,000



Photograph of the BGT removal at Drip Tank #106.



Photograph of the BGT removal and sample locations at Drip Tank #106.



Photograph of the BGT removal and sample locations at Drip Tank #106.



Photograph of the former BGT location after being backfilled.



Photograph of the former above ground storage tank location.



Photograph of the former above ground storage tank location.

### **Analytical Report 299363**

for

### Southern Union Gas Services-Jal

**Project Manager: Tony Savoie** 

Drip Tank Battery # 106 BGT-013

17-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



17-MAR-08

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

Reference: XENCO Report No: 299363 Drip Tank Battery # 106 Project Address:

### **Tony Savoie:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 299363. 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. 299363 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 299363



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

Drip Tank Battery # 106

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id	
Floor	S	Mar-11-08 15:05		299363-001	
North Wall	S	Mar-11-08 15:35		299363-002	
East Wall	S	Mar-11-08 16:00		299363-003	
South Wall	S	Mar-11-08 16:30		299363-004	
West Wall	S	Mar-11-08 17:00		299363-005	



Project Id: BGT-013 Contact: Tony Savoie

### Certificate of Analysis Summary 299363 Southern Union Gas Services-Jal, Jal, NM Project Name: Drip Tank Battery # 106

Tank Battery # 106 Date Received in Lab: Wed Mar-12-08 09:05 am

Ductort I contian.					Report Date: 17-MAR-08	17-MAR-08	
plect Focation:					Project Manager: Brent Barron, II	Brent Barron, II	
	Lab Id:	299363-001	299363-002	299363-003	299363-004	299363-005	
between D and the	Field Id:	Floor	North Wall	East Wall	South Wall	West Wall	
Anuivasis nequesieu	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Mar-11-08 15:05	Mar-11-08 15:35	Mar-11-08 16:00	Mar-11-08 16:30	Mar-11-08 17:00	
Anions hv F.PA 300/300.1	Extracted:						
	Analyzed:	** ** **					
	Units/RL:	mg/kg RL					
Chloride		ND 5.00					
Percent Maisture	Extracted:						
	Analyzed:	Mar-12-08 17:00	Mar-12-08 17:00	Mar-12-08 17:00	Mar-12-08 17:00	Mar-12-08 17:00	
	Units/RL:	% RL	% RL	% RL	% RL	% RL	
Percent Moisture		5.46	5.92	7.52	6.52	5.35	
TPH Rv SW8015 Mod	Extracted:	Mar-13-08 09:30	Mar-13-08 09:30	Mar-13-08 09:30	Mar-13-08 09:30	Mar-13-08 09:30	
	Analyzed:	Mar-13-08 13:59	Mar-14-08 07:50	Mar-14-08 08:16	Mar-14-08 13:22	Mar-14-08 13:47	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
C6-C12 Gasoline Range Hydrocarbons		ND 15.9	ND 15.9	ND 16.2	21.2 16.0	20.4 15.8	
C12-C28 Diesel Range Hydrocarbons		ND 15.9	ND 15.9	ND 16.2	18.8 16.0	18.4 15.8	
C28-C35 Oil Range Hydrocarbons		ND 15.9	ND 15.9	ND 16.2	ND 16.0	ND 15.8	
Total TPH		ND	ND	ND	40	38.8	

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 Set judgment of XFNCO Laboratorics. 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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Odessa Laboratory Director



- 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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5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
6017 Financial Dr., Norcross, GA 30071	(770) 449-8800	(770) 449-5477



### Form 2 - Surrogate Recoveries



Project Name: Drip Tank Battery # 106

ork Order #: 299363	(2.001/SMD		D: BGT-013		
Lab Batch #: 717290 Sample: 2993 Units: mg/kg		ch: 1 Mat	rix: Soil	STUDY	
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	76.6	100	77	70-135	
o-Terphenyl	43.7	50.0	87	70-135	
Lab Batch #: 717290 Sample: 2993	63-002 / SMP Bat	ch: 1 Mat	rix: Soil	14 mg	
Units: mg/kg		RROGATE R		STUDY	1.5
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	80.4	100	80	70-135	Sec. 1
o-Terphenyl	45.2	50.0	90	70-135	
Lab Batch #: 717290 Sample: 2993	63-002 S / MS Bat	ch: 1 Mat	rix: Soil		1
Units: mg/kg	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	118	100	118	70-135	
o-Terphenyl	62.0	50.0	124	70-135	-
Lab Batch #: 717290 Sample: 2993 Units: mg/kg	63-002 SD / MSD Bat	ch: <sup>1</sup> Mat	rix: Soil ECOVERY	STUDY	
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	100	104	70-135	and the
o-Terphenyl	54.8	50.0	110	70-135	
Lab Batch #: 717290 Sample: 2993 Units: mg/kg		ch: 1 Mat	rix: Soil ECOVERY S	STUDY	
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chlorooctane	75.0	100	75	70-135	
			1		

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

\*\*\* Poor recoveries due to dilution

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



### Form 2 - Surrogate Recoveries



Project Name: Drip Tank Battery # 106

ork Order #: 299363		<b>Project I</b>	<b>D:</b> BGT-013		
Lab Batch #: 717290 Sample: 299363-0			rix: Soil		
Units: mg/kg	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chlorooctane	82.8	100	83	70-135	
o-Terphenyl	44.5	50.0	89	70-135	-
Lab Batch #: 717290 Sample: 299363-0	005 / SMP Bat	ch: 1 Mat	rix: Soil		
Units: mg/kg	SU	RROGATE R	ECOVERY	STUDY	S. 1.
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chlorooctane	82.1	100	82	70-135	
o-Terphenyl	44.5	50.0	89	70-135	4
Lab Batch #: 717290 Sample: 505965-1	-BKS/BKS Bat	ch: 1 Mat	rix: Solid		
Units: mg/kg	SU	RROGATE R	ECOVERY	STUDY	1.1
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chlorooctane	94.2	100	94	70-135	1.00
o-Terphenyl	50.7	50.0	101	70-135	
Lab Batch #: 717290 Sample: 505965-1	-BLK / BLK Bat	ch: 1 Mat	rix: Solid	1.3	1.1
Units: mg/kg		RROGATE R	ECOVERY	STUDY	1
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chlorooctane	87.5	100	88	70-135	1
o-Terphenyl	48.2	50.0	96	70-135	1
Lab Batch #: 717290 Sample: 505965-	-BSD / BSD Bat	ch: 1 Mat	rix: Solid	- 120 -	
Units: mg/kg	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chlorooctane	88.7	100	89	70-135	
o-Terphenyl	49.5	50.0	99	70-135	

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

\*\*\* Poor recoveries due to dilution

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





### Project Name: Drip Tank Battery # 106

Work Order #: 299363		Pr	oject ID:			BGT-013
Lab Batch #: 716973	Sample: 716973	8-1-BKS	Matr	ix: Solid		
Date Analyzed: 03/12/2008	Date Prepared: 03/12/2	2008	Analy	st: LATCO	OR	
Reporting Units: mg/kg	Batch #: 1	BLANK /	BLANK SPI	KE REC	OVERY	STUDY
Anions by EPA 300/300.1	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags
Analytes	[A]	[B]	Result [C]	%R [D]	%R	
Chloride	ND	10.0	9.57	96	75-125	

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



### **BS / BSD Recoveries**



## Project Name: Drip Tank Battery # 106

13/2008

Blar Spil Resi	Spike Added	Blank Sample Result [A]	8015 Mod	TPH By SW8015 Mod	
K /BLA	BLANK /BLA			Units: mg/kg	
#: 1	Batch #:	KS	Sample: 505965-1-BKS	Lab Batch ID: 717290	
id: 03/	Date Prepared: 03/1	Da		Analyst: SHE	
				Work Order #: 299363	

Project ID: BGT-013 Date Analyzed: 03/13/2008 Matrix: Solid

Units: mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	PIKE / B	S YNK S	PIKE DUPL	ICATE I	RECOVE	RY STUD	Y	Γ
TPH By SW8015 Mod	Blank Sample Result	<b>Spike</b> Added	Blank Spike	Blank Spike	Spike	Blank Spike	Blk. Spk Dup.	RPD	<b>Control</b> Limits	Control Limits	Flag
	[A]		Result	%R		Duplicate	%R		%R	%RPD	
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
C6-C12 Gasoline Range Hydrocarbons	DN	1000	847	85	1000	797	80	9	70-135	35	
C12-C28 Dicsel Range Hydrocarbons	ND	1000	891	89	1000	838	84	9	70-135	35	

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



### Form 3 - MS Recoveries



### Project Name: Drip Tank Battery # 106

Work Order #: 299363 Lab Batch #: 716973 Date Analyzed: 03/12/2008

Project ID: BGT-013 Date Prepared: 03/12/2008

Analyst: LATCOR

QC- Sample ID: 299281-001 S Reporting Units: mg/kg	Batch #: MATI	1 RIX / MA	TRIX SPIKE	Matrix: RECO	Soil VERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[ <b>B</b> ]				
Chloride	3470	1000	4550	108	75-125	

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



## Form 3 - MS / MSD Recoveries



Project Name: Drip Tank Battery # 106

Project ID: BGT-013

Matrix: Soil

1

Batch #: QC- Sample ID: 299363-002 S Date Prepared: 03/13/2008

Date Analyzed: 03/15/2008

Work Order #: 299363 Lab Batch ID: 717290

MATDIV CDILE / MATDIV CDILE DUDI ICATE SHE Analyst:

Reporting Units: mg/kg		M	ATRIX SPIKI	E / MATI	RIX SPI	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE RECO	VERY S	STUDY		
TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1060	1090	103	1060	921	87	17	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1060	1160	109	1060	984	93	16	70-135	35	

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

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

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



### Sample Duplicate Recovery

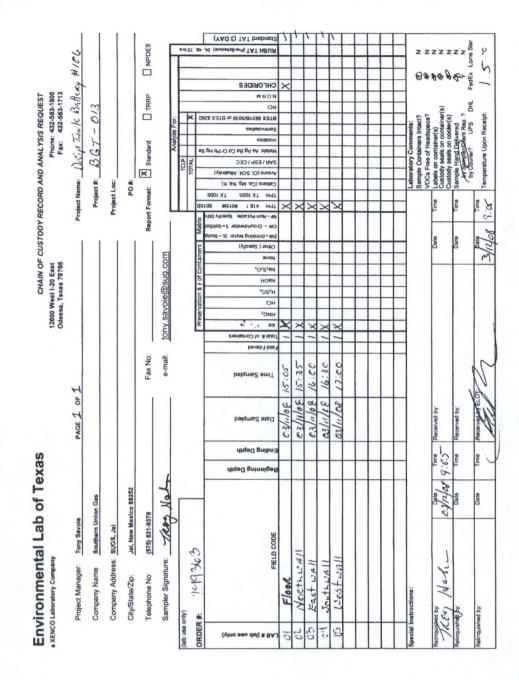


Project Name: Drip Tank Battery # 106

Work Order #: 299363

Lab Batch #: 716973 Date Analyzed: 03/12/2008	Date i repareur	2/2008	Analy	D: BGT-013	
QC- Sample ID: 299281-001 D Reporting Units: mg/kg	Batch #:	/ SAMPLE		ix: Soil	OVERY
Anions by EPA 300/300.1 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	3470	3460	0	20	

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



### Environmental Lab of Texas Variance/ Corrective Action Report- Sample Log-In

Client:	S.U.G.S.	_
Date/ Time:	312.08 9:05	
Lab ID # :	299363	_
Initials	qL	_

### Sample Receipt Checklist

	oumple Necelpt	onconist		Client Initials
#1	Temperature of container/ cooler?	Yes)	No	1.5 °C
#2	Shipping container in good condition?	Ves	No	
#3	Custody Seals intact on shipping container/ cooler?	tes	No	Not Present
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present
#5	Chain of Custody present?	(es)	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)?	les	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?	Ves	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?	YPS	No	
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below
#18	All samples received within sufficient hold time?	Yes	No	See Below
#19	Subcontract of sample(s)?	Yes	No	Not Applicable
#20		Yes	No	Not Applicable

### Variance Documentation

Date/ Time:

Contact

Regarding:

Corrective Action Taken:

Check all that Apply:

See attached e-mail/ fax

Contacted by:

Client understands and would like to proceed with analysis Cooling process had begun shortly after sampling event



April 09, 2013

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

RE: DRIP TANK #106

Enclosed are the results of analyses for samples received by the laboratory on 04/04/13 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/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited 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.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



### Analytical Results For:

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

Received:	04/04/2013	Sampling Date:	04/03/2013
Reported:	04/09/2013	Sampling Type:	Soil
Project Name:	DRIP TANK #106	Sampling Condition:	Cool & Intact
Project Number:	RP-1821	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

### Sample ID: WEST FLOOR (H300801-01)

Chloride, SM4500CI-B mg/kg Analyzed By: DW Analyte RPD Result Reporting Limit Analyzed Method Blank True Value QC Qualifier BS % Recovery Chloride 832 16.0 04/05/2013 ND 448 112 400 0.00 **TPH 8015M** mg/kg Analyzed By: MS Analyte Method Blank Result **Reporting Limit** Analyzed BS % Recovery True Value QC RPD Qualifier GRO C6-C10 <10.0 10.0 04/05/2013 ND 190 95.2 200 9.57 DRO >C10-C28 <10.0 10.0 04/05/2013 190 95.1 200 7.88 ND EXT DRO >C28-C35 <10.0 10.0 04/05/2013 ND 91.0% Surrogate: 1-Chlorooctane 65.2-140 108 % Surrogate: 1-Chlorooctadecane 63.6-154

### Sample ID: SOUTH FLOOR (H300801-02)

Chloride, SM4500CI-B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS %	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	04/05/2013	ND	448	112	400	0.00	
TPH 8015M	mg,	mg/kg		Analyzed By: MS				1	1.1.1.1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/05/2013	ND	190	95.2	200	9.57	
DRO >C10-C28	<10.0	10.0	04/05/2013	ND	190	95.1	200	7.88	
EXT DRO >C28-C35	<10.0	10.0	04/05/2013	ND					
Surrogate: 1-Chlorooctane	91.0	% 65.2-14	0					e 71	1
Surrogate: 1-Chlorooctadecane	109	% 63.6-15	4						

### **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:	04/04/2013	Sampling Date:	04/03/2013
Reported:	04/09/2013	Sampling Type:	Soil
Project Name:	DRIP TANK #106	Sampling Condition:	Cool & Intact
Project Number:	RP-1821	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

#### Sample ID: NORTH FLOOR (H300801-03) EV 00340

-

mg	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	04/09/2013	ND	2.15	107	2.00	8.81	
0.089	0.050	04/09/2013	ND	2.42	121	2.00	9.15	
<0.050	0.050	04/09/2013	ND	2.57	128	2.00	9.03	
<0.150	0.150	04/09/2013	ND	7.47	124	6.00	8.65	
<0.300	0.300	04/09/2013	ND					
	Result <0.050 <b>0.089</b> <0.050 <0.150	<0.050 0.050 <b>0.089</b> 0.050 <0.050 0.050 <0.150 0.150	Result         Reporting Limit         Analyzed           <0.050	Result         Reporting Limit         Analyzed         Method Blank           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <0.050

Angland Bar AB

Surrogate: 4-Bromofluorobenzene (PIL 104 % 89.4-126

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: DW					1.1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/05/2013	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS				1	1.1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/05/2013	ND	190	95.2	200	9.57	
DRO >C10-C28	<10.0	10.0	04/05/2013	ND	190	95.1	200	7.88	
EXT DRO >C28-C35	<10.0	10.0	04/05/2013	ND					
Surrogate: 1-Chlorooctane	93.0	% 65.2-14	0					0.1	199
Surrogate: 1-Chlorooctadecane	108	63.6-15	4						

## **Cardinal Laboratories**

## \*=Accredited Analyte

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Celeg D. Kune

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:	04/04/2013	Sampling Date:	04/03/2013
Reported:	04/09/2013	Sampling Type:	Soil
Project Name:	DRIP TANK #106	Sampling Condition:	Cool & Intact
Project Number:	RP-1821	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

# Sample ID: EAST FLOOR (H300801-04)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/05/2013	ND	448	112	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	04/05/2013	ND	190	95.2	200	9.57	
DRO >C10-C28	<10.0	10.0	04/05/2013	ND	190	95.1	200	7.88	
EXT DRO >C28-C35	<10.0	10.0	04/05/2013	ND					
Surrogate: 1-Chlorooctane	81.2	% 65.2-14	0						I al
Surrogate: 1-Chlorooctadecane	98.8	% 63.6-15	4						

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## \*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 6



## **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 SM4500CI-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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## \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 6

-hmittal of samples	Relinquished by:	Relinquished by	Alinquished by:						4	3	2				Project Location: (include state)	Project #:	Invoice to:	Contact Person:	Address:	Company Name:	
Submitted of samples constitutes accement to Terms and Conditions	Company: Date: Time:	Company Date: Time	Company Date: Time:						East Floor	North Floor	South Floor	West Floor	SAMPLEID		Lea Co., NM	RP-1821	Southern Union Gas		P.O. Box 301 Lovington, NM 88260	Basin Environmental Service Technologies, LLC	
ditione	Rejeived by:	Received by:	Received by:						G 1	G 1	G 1	G 1	(G)RAB or (C) # CONTAINE						8260	echnologies, LL	Labulatulics
	Company:	No MAQ	Santan				· · · ·		×	×	×	×	WATER SOIL AIR SLUDGE	MATRIX	Sampler Signature:	Project Name:		E-mail: pm@ba	Fax #:	C Phone #:	
	Dåte:		Date: Ime:						×	×	×	×	HCL HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> NaOH ICE	PRESERVATIVE	al form	Drip T		pm@basinenv.com, rose.slade@sug.com,cyndi.inskeep@sug.com	(575)396-1429	(575)396-2378	Tel (575) 393-2326 Fax (575) 393-2476
	INST OBS COR	OBS 7 C	LOBS °C				. 15 		4/3/13 1015	4/3/13 1010	4/3/13 1005	4/3/13 1000	NONE DATE TIME	E SAMPLING	<b>T</b>	Drip Tank #106		sug.com	1429	6-2378	
Car		-	1.3.1	E	1 g*			×	15 X	ō	)5 ×	×	Chloride	G							
Carrier #	og-in Review	Intact Y / N Headspace Y / N /NA	LAB USE ONLY						×	×	×	×	TPH 8015M BTEX 8021B							(Circ	
1 1			]												· · · · · · · · · · · · · · · · · · ·					ANALYSIS REQUEST	
	Check If Special Reporting Limits Are Needed	equired														· · · · · ·				EST thod No.)	
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-				1	19		: 1						Hold		1.1		25		1 10 10	Dr	age 6 of



May 06, 2013

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

**RE: DRIP TANK BATTERY #106** 

Enclosed are the results of analyses for samples received by the laboratory on 04/26/13 12:19.

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> accredited 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.

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,

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:	04/26/2013	Sampling Date:	04/25/2013	
Reported:	05/06/2013	Sampling Type:	Soil	
Project Name:	<b>DRIP TANK BATTERY #106</b>	Sampling Condition:	Cool & Intact	
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene	
Project Location:	LEA COUNTY, NM			

## Sample ID: SOUTH TANK @ SURFACE (H301003-01)

**BTEX 8021B** mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed True Value QC RPD Qualifier Method Blank BS % Recovery Benzene\* < 0.050 0.050 05/03/2013 1.75 87.7 2.00 15.9 ND Toluene\* < 0.050 0.050 05/03/2013 ND 1.65 82.6 2.00 14.7 Ethylbenzene\* < 0.050 0.050 05/03/2013 ND 1.73 86.5 2.00 16.9 Total Xylenes\* 05/03/2013 85.8 < 0.150 0.150 ND 5.15 6.00 17.6 **Total BTEX** < 0.300 0.300 05/03/2013 ND

Surrogate: 4-Bromofluorobenzene (PIL 100 % 89.4-126

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW				To:	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/29/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS				1.	and and
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2013	ND	176	88.2	200	5.89	
DRO >C10-C28	<10.0	10.0	04/30/2013	ND	168	84.1	200	9.89	
EXT DRO >C28-C35	<10.0	10.0	04/30/2013	ND					
Surrogate: 1-Chlorooctane	75.8	% 65.2-14	0						1
Surrogate: 1-Chlorooctadecane	82.4	% 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:	04/26/2013	Sampling Date:	04/25/2013
Reported:	05/06/2013	Sampling Type:	Soil
Project Name:	<b>DRIP TANK BATTERY #106</b>	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

## Sample ID: SOUTH TANK @ 1' (H301003-02)

**BTEX 8021B** mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier < 0.050 0.050 05/03/2013 1.75 87.7 2.00 15.9 Benzene\* ND 05/03/2013 82.6 2.00 14.7 Toluene\* < 0.050 0.050 ND 1.65 86.5 2.00 16.9 Ethylbenzene\* < 0.050 0.050 05/03/2013 1.73 ND Total Xylenes\* <0.150 0.150 05/03/2013 5.15 85.8 6.00 17.6 ND Total BTEX < 0.300 0.300 05/03/2013 ND

Surrogate: 4-Bromofluorobenzene (PIL 103 % 89.4-126

Chloride, SM4500CI-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	04/29/2013	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	04/30/2013	ND	176	88.2	200	5.89	
DRO >C10-C28	<10.0	10.0	04/30/2013	ND	168	84.1	200	9.89	
EXT DRO >C28-C35	<10.0	10.0	04/30/2013	ND					
Surrogate: 1-Chlorooctane	86.1	% 65.2-14	0						2.11
Surrogate: 1-Chlorooctadecane	93.7	% 63.6-15	4						

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## \*=Accredited Analyte

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Celey 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:	04/26/2013	Sampling Date:	04/25/2013
Reported:	05/06/2013	Sampling Type:	Soil
Project Name:	DRIP TANK BATTERY #106	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

# Sample ID: SOUTH TANK @ 2' (H301003-03)

mg	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	05/03/2013	ND	1.75	87.7	2.00	15.9	
<0.050	0.050	05/03/2013	ND	1.65	82.6	2.00	14.7	
<0.050	0.050	05/03/2013	ND	1.73	86.5	2.00	16.9	
<0.150	0.150	05/03/2013	ND	5.15	85.8	6.00	17.6	
<0.300	0.300	05/03/2013	ND					
	Result <0.050 <0.050 <0.050 <0.150	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	Result         Reporting Limit         Analyzed           <0.050	Result         Reporting Limit         Analyzed         Method Blank           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <0.050

Surrogate: 4-Bromofluorobenzene (PIL 102 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW			4		1.1. 1948
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/29/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					- 25 W
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2013	ND	176	88.2	200	5.89	
DRO >C10-C28	<10.0	10.0	04/30/2013	ND	168	84.1	200	9.89	
EXT DRO >C28-C35	<10.0	10.0	04/30/2013	ND					
Surrogate: 1-Chlorooctane	77.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	88.7	% 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:	04/26/2013	Sampling Date:	04/25/2013
Reported:	05/06/2013	Sampling Type:	Soil
Project Name:	<b>DRIP TANK BATTERY #106</b>	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

# Sample ID: NORTH TANK @ 1' (H301003-04)

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	05/03/2013	ND	1.75	87.7	2.00	15.9	
Toluene*	<0.050	0.050	05/03/2013	ND	1.65	82.6	2.00	14.7	
Ethylbenzene*	<0.050	0.050	05/03/2013	ND	1.73	86.5	2.00	16.9	
Total Xylenes*	<0.150	0.150	05/03/2013	ND	5.15	85.8	6.00	17.6	
Total BTEX	< 0.300	0.300	05/03/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 103 % 89.4-126

Chloride, SM4500CI-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		04/29/2013 ND		432	108	400	0.00		
TPH 8015M	mg/	kg	Analyze	d By: MS				- C.	1.1	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/30/2013	ND	176	88.2	200	5.89		
DRO >C10-C28	13.1	10.0	04/30/2013	ND	168	84.1	200	9.89		
EXT DRO >C28-C35	<10.0	10.0	04/30/2013	ND						
Surrogate: 1-Chlorooctane	83.2 9	65.2-14	0							
Surrogate: 1-Chlorooctadecane	95.3 9	63.6-15	4							

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## \*=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:	04/26/2013	Sampling Date:	04/25/2013
Reported:	05/06/2013	Sampling Type:	Soil
Project Name:	<b>DRIP TANK BATTERY #106</b>	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

# Sample ID: NORTH TANK @ 2' (H301003-05)

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	05/03/2013	ND	1.75	87.7	2.00	15.9	
Toluene*		< 0.050	0.050	05/03/2013	ND	1.65	82.6	2.00	14.7	
Ethylbenzene*		<0.050	0.050	05/03/2013	ND	1.73	86.5	2.00	16.9	
Total Xylenes*		<0.150	0.150	05/03/2013	ND	5.15	85.8	6.00	17.6	
Total BTEX		<0.300	0.300	05/03/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 105 % 89.4-126

Chloride, SM4500CI-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		04/29/2013	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	04/30/2013	ND	176	88.2	200	5.89		
DRO >C10-C28	<10.0	10.0	04/30/2013	ND	168	84.1	200	9.89		
EXT DRO >C28-C35	<10.0	10.0	04/30/2013	ND						
Surrogate: 1-Chlorooctane	72.0	% 65.2-14	0						P.	
Surrogate: 1-Chlorooctadecane	79.0	% 63.6-15	4							

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



# **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 SM4500CI-B does not require samples be received at or below $6^{\circ}\text{C}$
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Submittal of samples	nemiquisried by:		Relinquished hv:	Channel Dy.			K	R	Ľ	S	N		LABID	Project Location: (include state)	Project #:	Invoice to:	Contact Person:	Address:	Company Name:	0	LAB Order ID #
Submittal of samples constitutes agreement to Terms and Conditions	company:	company.		company.			NOTITI LATIK @ 2		North Tank 6	South Tank @ 2	South Tank @ 1'	South Tank @ Surface	SAN			Southern Union Gas		5	Basin Environn	Cardinal	++
	Date:			Ulzaliza			2.6	2 -	5) 1'	@ 2'	@ 1'	@ Surface	SAMPLE ID	Lea Co., NM		S		P.O. Box 301 Lovington, NM 88260	Basin Environmental Service Technologies, LLC	l Laboratories	
tions	Received by:	Warener Providence	Received	All			-	+	G 1	G 1	G 1	G 1	(G)RAB or (C)OMP # CONTAINERS					260	chnologies, l	atorio	
	y: Company.		OLA				>	< :	×	×	×	×	WATER SOIL AIR SLUDGE	Sampler Signature:	Project Name:		E-mail: pm@basin rose slade	Fax #:	LLC Phone #:		
	Date:	Uale.	412613	Date:									HCL         PRESERVATIVE           HNO3         METHOD           H2SO4         NAOH           ICE         NONE	nel for			pm@basinenv.com, rose stade@sug.com,cyndl.in	(575)	(57	101 East Mariand Hobbs, NM 88240 Tel (575) 393-2226 Fax (575) 393-2476	
	OBS COR	1800	F	OBS					X 4/2	X 4/2	X 4/2	X 4/2		m	Drip Tank Battery #106		skeep@sug.com	(575)396-1429	575)396-2378		
	ဂီဂီ	ဂ်ဂိ	1.4 °c	3°				1110	4/25/13 1100	4/25/13 1050	4/25/13 1040	4/25/13 1030	TIME		106						
Carrier #	Log-in Review	ntact <u>Y / N</u> Headspace <u>Y / N /NA</u>	ONLY	LAB USE	E		>>		××V	Xxx	XXX	×	Chloride TPH 8015M BTEX 8021B	doled	5	2/1	3	_	10:		
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